2018 Product Guide Americas





Industrial Fixed Gas and Flame Detection

Issue: 1V0

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1. Explosion-Proof Transmitters Quick Reference Chart

Product	Display	Relays	Material	Communication	Bluetooth®
XNX™ Universal Transmitter	Y	DC	AL, SS	4-20 mA; HART; Modbus; Foundation	N
Optima Excel Local Display (OELD)	Y	No	AL, SS	4-20 mA; HART passthrough	Υ
Sensepoint XCD	Υ	DC	AL, SS	4-20 mA; Modbus	N
Sensepoint XCD RTD	Υ	DC	AL, SS	4-20 mA; Modbus	N
Sensepoint XCD RFD	Υ	DC	AL, SS	4-20 mA; Modbus	N
Sensepoint XRL	N (Light Ring Only)	No	AL	4-20 mA; Modbus	Υ
Series 3000 MKII/MKIII	Υ	No	AL, SS	4-20 mA	N
705 Sensor	Υ	No	SS	4-20 mA	N
Optima Plus	N (Y w/ XNX)	No	SS	4-20 mA: HART	N (Y w/ OELD)

Toxic Gas Sensor	XNX™	XCD	XCD RTD	XRL	S3000
Ammonia (NH3)	Χ		X	X*	Х
Arsine (AsH ₃)					
Boron Trichloride (BCl3)					
Bromine (Br2)					
Carbon Monoxide (CO)	Χ	Χ	X	Χ	Χ
Carbon Dioxide (CO2)	Χ	Х		X*	
Chlorine (Cl2)	Χ		X	X*	X
Chlorine Dioxide (ClO2)	Χ				X
Diborane (B2H6)					
Dichlorosilane (H2SiCl2)					
Ethylene Oxide (EtO)	Χ				X
Fluorine (F2)					
Germane (GeH4)					
Hydrogen (H2)	X	Χ	X	Χ	X
Hydrogen Bromide (HBr)					
Hydrogen Chloride (HCI)	Χ				X
Hydrogen Cyanide (HCN)					X
Hydrogen Fluoride (HF)	Χ				X
Hydrogen Sulfide (H2S)	Χ	X	Χ	Χ	X
Nitric Oxide (NO)	Χ		X		X
Nitrogen Dioxide (NO2)	Χ	X	X	Χ	X
Oxygen (O2)	Χ	Х	Х	Χ	X
Ozone (O3)				Χ*	
Phosphine (PH3)	Χ				Χ
Silane (SiH4)					
Sulfur Dioxide (SO2)	X		X	X*	X
*Will be added in 2018	-		-	•	

LEL Sensor	XNX™	XCD/XRL ¹	XCD RFD	705	OELD/Optima
Non-specific combustible	Х	X	Χ	Χ	Х
Butane (C4H10)	X	Χ	Χ	Χ	Х
Butyl Acetate (C6H12O2)	Х	Х	X	Χ	Х
Ethylene (C2H4)	X	Х	Х	Χ	Х
Hexane (C6H14)	X	Х	Х	Χ	Х
Hydrogen (H2)	Х	Х	X	Χ	Х
Methane (CH4)	Х	Х	X	Χ	Х
Pentane (C5H12)	Х	Х	X	Х	Х
Propane (C3H8)	Х	X	X	X	Х
Toluene (C7H8)	Х	Х	X	X	Х

Note:

^{1.} XRL calibrated to Methane. Please contact HA customer service for other flammable gasses.





The XNXTM Universal Transmitter, now with HART EDDL/DTM, marks a new turn in gas detection from Honeywell Analytics. It supports the widest range of Sensors on a common platform and offers a modular choice of inputs and outputs. XNX is designed for flexible integration, simple installation, user-friendly operation and straight-forward maintenance. It is ideal for use with a range of gas monitoring controllers or industry standard PLCs. The introduction of our HART Enhanced Device Descriptor Language (EDDL) & Device Type Manager (DTM) software provides users with an at-a-glance indication of the health of their gas detectors in the field.

High performance

- Flammable gas detection 0 to 100% LFL/LEL
- Point IR with heated optics provides immunity to poisoning and no hidden faults
- Open-path IR flammable gas detection in LEL-m measurement
- Electrochemical cell offers toxic gas detection in ppm
- IR cell provides CO2 and combustible gas monitoring
- Robust and reliable operation in explosive areas and harsh environments

Cost Effective

- Minimal training required
- One-man operation
- Plug-in Sensor replacement
- All necessary accessories included

Flexible Operation

- 3 Versions supports (Catalytic Bead and IR Cell), Electrochemical Cell and IR (point and open-path) gas detection
- Multi-Purpose Detector (MPD) with field serviceable mV, Catalytic bead and IR Cell capability
- 4-20 mA with HART® as standard
- HART Enhanced Device Description Language (EDDL) & Device Type Manager (DTM) software*
- Multiple communications optionsinclude up to 3 relays, Modbus® and FOUNDATION® H1 Fieldbus
- Optional local IS port for handheld HART configurator

Easy to Install

- 3 or 4 wire operation, source, sink or isolated
- Simple plug-in Sensors and replaceable cells
- NEMA 4X IP66 rated for rugged indoor/outdoor use
- Five conduit entries for ease of installation

Easy to Use

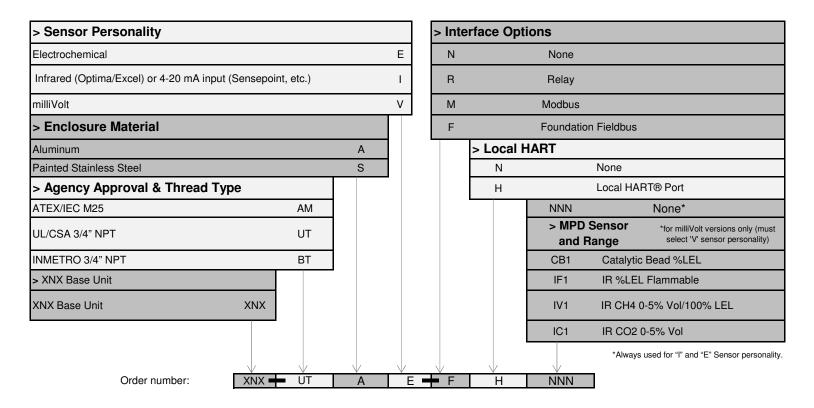
- Large, backlit, easy-to-view LCD display offers multiSensory indicators (visual icons, colored buttons, text, etc.) to display gas and Sensor readings
- User interface supported by 8 selectable languages (English, Spanish, German, Italian, Portuguese, French, Russian, Chinese)
- Self-test and fault indication features
- Non-intrusive, one-man operation
- Quick calibration with auto-inhibit

Certifications

- UL, CSA, FM, DEMKO, DEKRA, InMetro, TUV, ABS, HART, IELDBus Foundation, GOST and KTL approved for Hazardous Locations, Gas Performance and SIL 2 ratings among others
- Class I, Div 1, Groups A, B, C & D; Class II, Div 1, Groups F and G; Hazardous Locations
- Class I Zone 1 Group IIC, Class II, Zone 20 & 21
- Intrinsically safe barriers for HART and EC connections
- For additional information on certifications and approvals contact Honeywell Analytics

2.1 XNX Order Number and Pricing Configurator

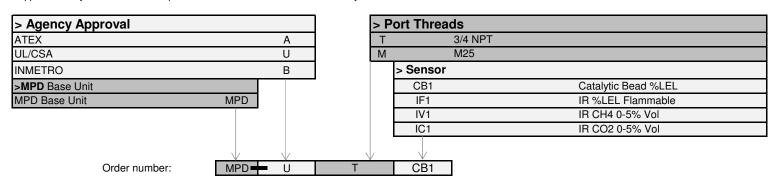
The XNX™ Universal Transmitter is designed for flexible integration, simple installation, user-friendly operation and straight-forward maintenance. The XNX supports a wide range of Sensors on a common platform and offers a modular choice of inputs and outputs.



For example, the order number for an XNX (XNX-) configured for UL/CSA Approval and 3/4" NPT thread type (UT), Aluminum enclosure (A), Electrochemical sensor personality (E-), Foundation Fieldbus interface (F), and Local HART (H) would be **XNX-UTAE-FHNNN**.

Multi-Purpose Detector (MPD)

The MPD (Multi-Purpose Detector), a low-cost Infrared or Catalytic bead sensing cell for monitoring flammable industrial gases in hazardous areas. Through the XNX, the MPD can support a variety of communications protocol used in industrial communications systems.



For example, the order number for an MPD (MPD-) configured for UL/CSA Approval (U), 3/4" NPT thread type (T), and Catalytic Bead %LEL Sensor (CB1) would be **MPD-UTCB1**.

2.2 Toxic and Oxygen Smart Sensors

A wide range of toxic and oxygen sensors, featuring patented SurecellTM and Reflex technology, are available for use with the XNXTM Universal Transmitter. Featuring a field replaceable sensor, these sensors are shipped pre-calibrated to the range listed below.

XNX™ Sensors	
Part Number	Description
XNXXSO1FM	Oxygen (O2) 23% v/v fixed (FM approved)
XNXXSO1SS	Oxygen (O2) 0-25% v/v
XNXXSC1SS	Carbon monoxide (CO) 0-300 ppm (100 to 500 ppm max scale for XNX, 100 ppm)
XNXXSC1FM	Carbon monoxide (CO) 100-1000 ppm (FM approved)
XNXXSH3SS	Hydrogen sulfide (H2S) 0-15 ppm
XNXXSH1FM	Hydrogen sulfide (H2S) 10-50 ppm (FM approved)
XNXXSH1SS	Hydrogen sulfide (H2S) 0-15.0 ppm (10.0 to 50.0 ppm, 1 ppm)
XNXXSH2SS	Hydrogen sulfide (H2S) 0-100 ppm (50 to 500 ppm, 10 ppm)
XNXXSL1SS	Chlorine (Cl2) 0-5.0 ppm (5.0 to 20.0 ppm, 5.0 ppm)
XNXXSL2SS	Chlorine (Cl2) 0-5.00 ppm fixed range
XNXXSS1SS	Sulfur dioxide (SO2) 0-15.0 ppm (5.0 to 20.0 ppm, 5.0 ppm)
XNXXSS2SS	Sulfur dioxide (SO2) 0-50.0 ppm (20.0 to 50 ppm, 10 ppm)
XNXXSX1SS	Chlorine dioxide (ClO2) 0-1.00 ppm
XNXXSM1SS	Nitric oxide (NO) 0-100 ppm
XNXXSN1SS	Nitrogen dioxide (NO2) 0-10.0 ppm (5.0 to 50.0 ppm, 5.0 ppm)
XNXXSG1SS	Hydrogen (H2) 0-1000 ppm
XNXXSG2SS	Hydrogen (H2) 0-10,000 ppm
XNXXSF1SS	Hydrogen fluoride (HF) 0-12.0 ppm
XNXXSA1SS	Ammonia (NH3) 0-200 ppm (50 to 200 ppm, 50 ppm)
XNXXSA2SS	Ammonia (NH3) 0-1000 ppm (200 to 1000 ppm, 50 ppm)
XNXXSP1SS	Phosphine (PH3) 0-1.2 ppm
XNXXSR1SS	Hydrogen chloride (HCl) 0-10 ppm (10 to 20 ppm, 1 ppm)
XNXXSY1SS	XNX Sensor hydrogen cyanide (HCN) 0-30 ppm (Fixed Scale)
XNXXSE1SS	XNX Sensor ethylene oxide (EtO), 25.0ppm (user-selectable from 20.0ppm to 50.0ppm)

MPD: Multi-Purpose Detector (mV) - UL/CSA (3/4 in. NPT)			
Part Number	Description		
MPD-UTCB1	XNX MPD UL/CSA catalytic bead Sensor 0-100% LEL		
MPD-UTIF1	XNX MPD UL IR cartridge 0-100% LEL propane (C3H8) (flammables)		
MPD-UTIV1	XNX MPD UL IR cartridge 0-100% LEL methane (CH4)		
MPD-UTIC1	XNX MPD UL/cUL IR cartridge carbon dioxide (CO2) 0-5% VV		

Note: When remote Mounting the MPD, Ferrite Bead (0060-1051) is required.

MPD: Multi-Purpose Detector (mV) - ATEX/IECEX (M25)			
Part Number	Description		
MPD-AMCB1	XNX MPD ATEX/IECEx catalytic bead Sensor 0-100% LEL		
MPD-AMIF1	XNX MPD ATEX/IECEx IR cartridge 0-100% LEL propane (flammables)		
MPD-AMIV1	XNX MPD ATEX/IECEx IR cartridge 0-100% LEL methane		
MPD-AMIC1	XNX MPD ATEX/IECEx IR cartridge CO2 0-5% VV		

2.3 XNX™ Accessories

XNX™ Accessories: For Use With All Versions of XNX		
Part Number	Description	
94000-A-1006	XNX Sunshade w/ Optima cut out	
1226A0358	Pipe mount Kit	
1226A0355	Ceiling mount bracket	
S3KDMK	Duct mount Kit	
1226A0354	Remote gassing Kit	
2441-0022	UL/CSA aluminum 6 wire junction box assembly	
2430-0021	UL/CSA aluminum 3 wire junction box assembly	
00780-A-0100	ATEX/IECEx junction box assembly	

XNX™ Accessories: For Use With MPD Catalytic and IR Cartridge Sensors		
Part Number	Description	
1226A0382	MPD interface adaptor (required with duct mount Kit for MPD)	
	Note: S3KDMK and 1226A0382 should be order together	
1226A0411	Calibration gas flow adaptor (for use with MPD)	
02000-A-1645	Calibration gas flow adaptor (for use with Sensepoint Sensors)	
00780-A-0035	Calibration gas flow adaptor (for use with 705 Sensors)	
02000-A-1640	Weatherproof cap (for use with MPD and Sensepoint Sensors)	
02000-A-1635	Weatherproof cap (for use with 705 Sensors)	
02000-A-1642	Collecting cone (for use with MPD, Sensepoint and 705 Sensors)	
0060-1051	Ferrite bead (for use with mV Sensors)	

XNX™ Accessories: For Use With Toxic and Oxygen Sensors			
Part Number	Description		
S3KRMK	Remote EC Mounting Kit (50 Feet)		
S3KRMK45	Remote EC Mounting Kit (150 Feet)		
S3KRMK75	Remote EC Mounting Kit (250 Feet)		
SPXCDWP	Enclosed weather protection housing with bump port		
S3KWP	Weatherproof housing (for use with corrosives)		
S3KCAL	Calibration gas flow adaptor (for use with EC Sensors)		
SPXCDCC	Collecting cone for use with lighter than air gases		
	Note: must be used with SPXCDWP weather protection housing.		

Replacement Toxic and Oxygen Sensor Cartridges		
Part Number	Description	
S3KO1SS	Oxygen (O2) 0-25% v/v	
S3KC1SS	Carbon monoxide (CO) 0-300 ppm (100 to 999 ppm, 100 ppm)	
S3KH1SS	Hydrogen sulfide (H2S) 0-15 ppm (10 to 50 ppm, 1 ppm)	
S3KH2SS	Hydrogen sulfide (H2S) 0-100 ppm (50 to 500 ppm, 10 ppm)	
S3KL1SS	Chlorine (Cl2) 0-5.0 ppm (5.0 to 20.0 ppm, 5.0 ppm)	
S3KS1SS	Sulfur dioxide (SO2) 0-15.0 ppm (5.0 to 20.0 ppm, 5 ppm); 0-50.0 ppm (20.0 to 50.0 ppm, 10 ppm)	
S3KX1SS	Chlorine dioxide (ClO2) 0-1.00 ppm	
S3KM1SS	Nitric oxide (NO) 0-100 ppm	
S3KN1SS	Nitrogen dioxide (NO2) 0-10.0 ppm (5.0 to 50.0 ppm, 5.0 ppm)	
S3KG1SS	Hydrogen (H2) 0-1000 ppm	

Replacement Toxic and Oxygen Sensor Cartridges continued			
Part Number	Description		
S3KG2SS	Hydrogen (H2) 0-10,000 ppm		
S3KA1SS	Ammonia (NH3) 0-200 ppm (50 to 200 ppm, 50 ppm)		
S3KA2SS	Ammonia (NH3) 0-1000 ppm (200 to 1000 ppm, 50 ppm)		
S3KP1SS	Phosphine (PH3) 0-1.2 ppm		
S3KR1SS	Hydrogen chloride (HCl) 0-10 ppm (10 to 20 ppm, 1 ppm)		
XNXE1SS	Ethylene Oxide (EtO), 25.0ppm (user-selectable from 20.0ppm to 50.0ppm)		

Replaceable MPD Catalytic and IR Cartridges	
Part Number	Description
1226A0359	Replacement catalytic bead Sensor 0-100% LEL
1226-0300	Replacement IR cartridge 0-100% LEL propane (C3H8) (flammables)
1226-0299	Replacement IR cartridge 0-100% LEL methane (CH4)
1226-0301	Replacement IR cartridge carbon dioxide (CO2) 0-5% VV

XNX™ Spares	
Part Number	Description
1226-0257	M25 stopping plug with protective cap and O-ring (Stainless Steel)
1226-0258	3/4 in. NPT stopping plug with protective cap and O-ring (Stainless Steel)
0235-0238	Replacement O-ring for XNX front cover
1226A0302	Terminal block assembly 6-pin for XNX EC
1226A0304	Terminal block assembly 9-pin for XNX mV
1226A0305	IR terminal block assembly Kit includes: 9-pin and 2 pin blocks
1226A0306	Relay terminal block assembly Kit includes: 9-pin and 2-pin blocks
1226A0307	Terminal block assembly 10-pin for XNX Modbus
1226-0254	Magnetic wand/screwdriver
1226-0408	Small screwdriver (for use with relay board and IR personality board)
1226-0350	Sensor Retainer, includes set screw. (SS cover for EC sensor.)
1226A0303	Terminal block assembly 6-pin XNX Foundation Fieldbus

XNX™ PODs*	
Part Number	Description
1226-9001	XNX POD IR personality
1226-9002	XNX POD IR personality with relay option
1226-9003	XNX POD IR personality with Modbus option
1226-9004	XNX POD IR personality with FFB option
1226-9005	XNX POD ECC personality
1226-9006	XNX POD ECC personality with relay option
1226-9007	XNX POD ECC personality with Modbus option
1226-9008	XNX POD ECC personality with FFB option
1226-9009	XNX POD MV personality
1226-9010	XNX POD MV personality with relay option
1226-9011	XNX POD MV personality with Modbus option
1226-9012	XNX POD MV personality with FFB option

^{*}Terminal blocks are NOT included with PODs

2.4 Calibration Kits and Components

XNX™ Calibrarion Kits and Components	Product	Contains	Part Number
Tubing, flow adaptor, regulator, carrying case	XNX Toxic Kit	998-100-004, S3KCAL, ZCALREG1 (.3 LPM), 998-100-003	XNXTOXKit
Tubing, flow adaptor, regulator, carrying case	XNX Toxic Kit (HCN, Cl2, HF, NH3, and HCl)		XNXTOXKIT2
Tubing, flow adaptor, regulator, carrying case	XNX Combustibles Kit	106459, 1226A0411, N600 1001 33 (.5 LPM), 998-100-003	XNXCOMBKit
XNX EC barrier service kit		1226A0057	1226A0368
3/4 inch EC potted assembly			1226A0369
Flow housing XNX S3K EC cell, teflon			SVIP3766-007
Flow housing XNX S3K MPD, IR, cat bead			SVIP3766-008





Sensepoint XRL is a fixed point gas leak detector that is designed to meet the needs of industrial applications. With over 50 years experience in gas leak detection, Honeywell offers a flexible range of highly-reliable sensing devices to meet those needs.

- Quick installation
- Rapid configuration
- Simple to operate
- Straightforward to maintain

Honeywell innovation enables customers to pair the gas detector with their mobile phone, and then use an app to perform many tasks related to installation, commissioning and maintenance.





3.1 Instruments

Each Sensepoint XRL is supplied with registration sheet, 3/4 NPT or M20 metal stopping plug, Hex Allen key and quick start guide. Sensepoint XRL is fully configurable via Bluetooth on your Android Smart Device.

Sensepoint XRL, Bluetooth, Yellow, 4-20mA, cULus



•		
Sensepoint XRL, Blue	Sensepoint XRL, Bluetooth, Yellow, 4-20mA, cULus	
Part Number	Description	
SPLIO1BAXYNUZZ	SPXRL-BT-cULus-O ₂ 25.0%VOL-mA-YEL	
SPLIC1BAXYNUZZ	SPXRL-BT-cULus-CO 300ppm-mA-YEL	
SPLIH1BAXYNUZZ	SPXRL-BT-cULus-H ₂ S 50ppm-mA-YEL	
SPLIH2BAXYNUZZ	SPXRL-BT-cULus-H ₂ S 100ppm-mA-YEL	
SPLIG1BAXYNUZZ	SPXRL-BT-cULus-H ₂ 1000ppm-mA-YEL	
SPLIN1BAXYNUZZ	SPXRL-BT-cULus-NO ₂ 20.0ppm-mA-YEL (Available Q4 2017)	
SPLIF6BAXYNUZZ	SPXRL-BT-cULus-CH₄ 100%LEL-mA-YEL	

Sensepoint XRL, Bluetooth, Charcoal Grey, 4-20mA, cULus



•	·	
Sensepoint XRL, Blu	Sensepoint XRL, Bluetooth, Charcoal Grey, 4-20mA, cULus	
Part Number	Description	
SPLIO1BAXCNUZZ	SPXRL-BT-cULus-O ₂ 25.0%VOL-mA-CHR	
SPLIC1BAXCNUZZ	SPXRL-BT-cULus-CO 300ppm-mA-CHR	
SPLIH1BAXCNUZZ	SPXRL-BT-cULus-H ₂ S 50ppm-mA-CHR	
SPLIH2BAXCNUZZ	SPXRL-BT-cULus-H ₂ S 100ppm-mA-CHR	
SPLIG1BAXCNUZZ	SPXRL-BT-cULus-H ₂ 1000ppm-mA-CHR	
SPLIN1BAXCNUZZ	SPXRL-BT-cULus-NO ₂ 20.0ppm-mA-CHR (Available Q4 2017)	
SPLIF6BAXCNUZZ	SPXRL-BT-cULus-CH ₄ 100%LEL-mA-CHR	





Sensepoint XRL, Bluetooth, Yellow, Modbus, cULus

Sensepoint XRL, Bluetooth, Yellow, Modbus, cULus	
Part Number	Description
SPLIO1BMXYNUZZ	SPXRL-BT-cULus-O ₂ 25.0%VOL-Modbus-YEL
SPLIC1BMXYNUZZ	SPXRL-BT-cULus-CO 300ppm-Modbus-YEL
SPLIH1BMXYNUZZ	SPXRL-BT-cULus-H ₂ S 50ppm-Modbus-YEL
SPLIH2BMXYNUZZ	SPXRL-BT-cULus-H ₂ S 100ppm-Modbus-YEL
SPLIG1BMXYNUZZ	SPXRL-BT-cULus-H ₂ 1000ppm-Modbus-YEL
SPLIN1BMXYNUZZ	SPXRL-BT-cULus-NO ₂ 20.0ppm-Modbus-YEL (Available Q4 2017)
SPLIF6BMXYNUZZ	SPXRL-BT-cULus-CH ₄ 100%LEL-Modbus-YEL



Sensepoint XRL, Bluetooth, Charcoal Grey, Modbus, cULus

Sensepoint XRL, Bluetooth, Charcoal Grey, Modbus, cULus	
Description	
SPXRL-BT-cULus-O ₂ 25.0%VOL-Modbus-CHR	
SPXRL-BT-cULus-CO 300ppm-Modbus-CHR	
SPXRL-BT-cULus-H ₂ S 50ppm-Modbus-CHR	
SPXRL-BT-cULus-H ₂ S 100ppm-Modbus-CHR	
SPXRL-BT-cULus-H ₂ 1000ppm-Modbus-CHR	
SPXRL-BT-cULus-NO ₂ 20.0ppm-Modbus-CHR (Available Q4 2017)	
SPXRL-BT-cULus-CH ₄ 100%LEL-Modbus-CHR	



Sensepoint XRL, Bluetooth, Yellow, 4-20mA, ATEX/IECEx

•		
Sensepoint XRL, Blue	Sensepoint XRL, Bluetooth, Yellow, 4-20mA, ATEX/IECEx	
Part Number	Description	
SPLIO1BAXYMAZZ	SPXRL-BT-ATEX-O ₂ 25.0%VOL-mA-YEL	
SPLIC1BAXYMAZZ	SPXRL-BT-ATEX-CO 300ppm-mA-YEL	
SPLIH1BAXYMAZZ	SPXRL-BT-ATEX-H ₂ S 50ppm-mA-YEL	
SPLIH2BAXYMAZZ	SPXRL-BT-ATEX-H ₂ S 100ppm-mA-YEL	
SPLIG1BAXYMAZZ	SPXRL-BT-ATEX-H ₂ 1000ppm-mA-YEL	
SPLIN1BAXYMAZZ	SPXRL-BT-ATEX-NO ₂ 20.0ppm-mA-YEL (Available Q4 2017)	
SPLIF6BAXYMAZZ	SPXRL-BT-ATEX-CH ₄ 100%LEL-mA-YEL	



Sensepoint XRL, Bluetooth, Charcoal Grey, 4-20mA, ATEX/IECEx

Sensepoint XRL, Bluetooth, Charcoal Grey, 4-20mA, ATEX/IECEx	
Description	
SPXRL-BT-ATEX-O ₂ 25.0%VOL-mA-CHR	
SPXRL-BT-ATEX-CO 300ppm-mA-CHR	
SPXRL-BT-ATEX-H ₂ S 50ppm-mA-CHR	
SPXRL-BT-ATEX-H ₂ S 100ppm-mA-CHR	
SPXRL-BT-ATEX-H ₂ 1000ppm-mA-CHR	
SPXRL-BT-ATEX-NO ₂ 20.0ppm-mA-CHR (Available Q4 2017)	
SPXRL-BT-ATEX-CH₄ 100%LEL-mA-CHR	





Sensepoint XRL, Bluetooth, Yellow, Modbus, ATEX/IECEx

Sensepoint XRL, Bluetooth, Yellow, Modbus, ATEX/IECEx	
Part Number	Description
SPLIO1BMXYMAZZ	SPXRL-BT-ATEX-O ₂ 25.0%VOL-Modbus-YEL
SPLIC1BMXYMAZZ	SPXRL-BT-ATEX-CO 300ppm-Modbus-YEL
SPLIH1BMXYMAZZ	SPXRL-BT-ATEX-H ₂ S 50ppm-Modbus-YEL
SPLIH2BMXYMAZZ	SPXRL-BT-ATEX-H ₂ S 100ppm-Modbus-YEL
SPLIG1BMXYMAZZ	SPXRL-BT-ATEX-H ₂ 1000ppm-Modbus-YEL
SPLIN1BMXYMAZZ	SPXRL-BT-ATEX-NO ₂ 20.0ppm-Modbus-YEL (Available Q4 2017)
SPLIF6BMXYMAZZ	SPXRL-BT-ATEX-CH ₄ 100%LEL-Modbus-YEL



Sensepoint XRL, Bluetooth, Charcoal Grey, Modbus, ATEX/IECEx

Sensepoint XRL, Blue	ensepoint XRL, Bluetooth, Charcoal Grey, Modbus, ATEX/IECEx	
Part Number	Description	
SPLIO1BMXCMAZZ	SPXRL-BT-ATEX-O ₂ 25.0%VOL-Modbus-CHR	
SPLIC1BMXCMAZZ	SPXRL-BT-ATEX-CO 300ppm-Modbus-CHR	
SPLIH1BMXCMAZZ	SPXRL-BT-ATEX-H ₂ S 50ppm-Modbus-CHR	
SPLIH2BMXCMAZZ	SPXRL-BT-ATEX-H ₂ S 100ppm-Modbus-CHR	
SPLIG1BMXCMAZZ	SPXRL-BT-ATEX-H ₂ 1000ppm-Modbus-CHR	
SPLIN1BMXCMAZZ	SPXRL-BT-ATEX-NO ₂ 20.0ppm-Modbus-CHR (Available Q4 2017)	
SPLIF6BMXCMAZZ	SPXRL-BT-ATEX-CH ₄ 100%LEL-Modbus-CHR	

3.2 Accessories, Consumables & Spares

3.2 Accessories, Consumables & Spares	
Accessories	
Part Number	Description
SPXRLCAL	SPXRL-Calibration Cap
SPXRLFLW	SPXRL-Flow Housing
SPXRLDMK	SPXRL-Duct Mount Kit
2308B0923	Pipe Mounting Bracket Kit
SPXCDWP	Sensepoint XRL optional weather protection
SPXCDCC	Collecting cone for use with lighter than air gases, must be used with SPXCDWP



Consumables (Spare Sensors)		
Part Number	Description	
SPXRLMAO1	SPXRL-Module Set-mA - O ₂	
SPXRLMAC1	SPXRL-Module Set-mA - CO	
SPXRLMAH1	SPXRL-Module Set-mA - H ₂ S Low Range	
SPXRLMAH2	SPXRL-Module Set-mA - H ₂ S High Range	
SPXRLMAG1	SPXRL-Module Set-mA - H ₂	
SPXRLMAN1	SPXRL-Module Set-mA - NO ₂ (Available Q4 2017)	
SPXRLMAF1	SPXRL-Module Set-mA - Flammable Cat	
SPXRLMMO2	SPXRL-Module Set-Modbus - O ₂	
SPXRLMMC1	SPXRL-Module Set-Modbus - CO	
SPXRLMMH1	SPXRL-Module Set-Modbus - H ₂ S Low Range	
SPXRLMMH2	SPXRL-Module Set-Modbus - H ₂ S High Range	
SPXRLMMG1	SPXRL-Module Set-Modbus - H ₂	
SPXRLMMN1	SPXRL-Module Set-Modbus - NO ₂ (Available Q4 2017)	
SPXRLMMF1	SPXRL-Module Set-Modbus - Flammable Cat	
SPXZZRLF6SS	SPXRL-Replacement Sensor-Cat	
SPXCLZZO1SS	Sensepoint XCL/XRL Replacement Sensor - O ₂	
SPXCLRLC1SS	Sensepoint XCL/XRL Replacement Sensor - CO	
SPXCLRLH1SS	Sensepoint XCL/XRL Replacement Sensor - H ₂ S (Low and High Range)	
SPXCLRLG1SS	Sensepoint XCL/XRL Replacement Sensor - H ₂	
SPXCLRLN1SS	Sensepoint XCL/XRL Replacement Sensor - NO ₂	

Spares (Miscellaneous)		
Part Number	Description	
SPXRLSK1	SPXRL-Service Kit 2	
SPXRLSCP	SPXRL-Sensor Cover Spare	
SPXRLSCC	SPXRL-Sensor Trim Ring Spare-CHR	
SPXRLSCY	SPXRL-Sensor Trim Ring Spare-YEL	
SPXRLCOV	SPXRL-Top Cover Spare	
SPXRLSPN	SPXRL-Stopping Plug-3/4" NPT	
SPXRLSPM	SPXRL-Stopping Plug-M20	





LEL, C3H8, CH4, H2S, CO, CO2, H2, NO2, O2

The Sensepoint XCD range provides comprehensive monitoring of flammable, toxic and oxygen gas hazards in potentially explosive atmospheres, both indoors and outdoors. Users can modify detector operation using the LCD and magnetic switches without ever needing to open the unit. This enables one-man, non-intrusive operation and reduces routine maintenance time and costs.

One-Stop Shop

- Flammable (catalytic or infrared), toxic and oxygen Versions available
- New and retrofit applications
- Suitable for indoor or outdoor use
- Stainless steel or aluminium explosion-proof housing options
- IP66 as standard

Proven and Reliable Sensor Technology

- Surecell™ electrochemical Sensors
- Poison immune infrared Sensors
- Poison resistant catalytic bead Sensors
- Long life Sensors

Global Approvals

- Global approvals for US, Canada, Latin America, Europe, China, Korea, and more
- Compliant with UL, INMETRO, ATEX, IECEx, CSA, KTL, PA, GB and CCCF standards

Easy to Use

- User friendly and intuitive tri-colour backlit display with digits, bar graph and icons
- Fully configurable via magnetic switches
- Selectable sink or source 4-20 mA output
- Auto-inhibit during maintenance
- Modbus RTU communications for remote diagnostics/configuration

Sensepoint XCD L: LM25 S: Stainless Steel Certification A: ATEX/IEC Ex U: UL/C8AVIn metro Sensor Type F: Flammable IR CH4 %LEL O: Oxygen H: Hydrogen Sulfide C: Carbon Monovide G: Hydrogen P: Flammable IR Propane %LEL B: Carbon Dioxide IR 0-2.00%vol N: Nitrogen Dioxide

Cost Effective

- Common transmitter platform
- Minimal training required
- · Reduced spares
- Non-intrusive, one-man operation
- Plug-in Sensor replacement
- Modbus multi drop option offers cabling savings

Simple Installation

- Plug-in display module removes to give access to terminal area
- Integral Mounting bracket
- 2 x M20 or 3/4 in. NPT Cable/conduit entries (certification dependent)
- Removable plug/socket type terminal blocks for ease of wiring
- Sink/source switch to suit preferred wiring topology

Range of Optional Accessories

- Remote Sensor gassing Kit
- Duct Mounting Kit
- Calibration gas flow housing
- Collecting cone

Certifications

UL/c-UL - Class I, Division 1, Groups
 B, C and D, Class I, Division 2, Groups B,
 C & D, Class II, Division 1, Groups E, F &
 G,

Class II, Division 2, Groups F & G. -40°C to +65°C

- ATEX Ex II 2 GD Ex d IIC Gb T6 (Ta 40°C to +65°C) Ex tb IIIC T85°C Db IP66
- IEC Ex d IIC Gb T6 (Ta -40°C to +65°C) Extb IIIC T85°C Db IP66



4.1 INSTRUMENT

UL/c-UL/INMETE	RO Approvals (LM25)
Part Number	Description
SPXCDULNFX	XCD Gas Detector, 4 to 20 mA output, UL/c-UL/INMETRO, 2 x 3/4" NPT entries, painted LM25, includes catalytic sensor cartridge 0 to 100%LEL, user selectable FSD between 20% and 100%LEL (10%LEL resolution), includes nylon weather protection
SPXCDULNRX	XCD Gas Detector, 4 to 20 mA output, UL/c-UL/INMETRO, 2 x 3/4" NPT entries, painted LM25, includes infrared methane sensor cartridge 0 to 100%LEL, user selectable FSD between 20% and 100%LEL (10%LEL resolution), includes nylon weather protection
SPXCDULNPX	XCD Gas Detector, 4 to 20 mA output, UL/c-UL/INMETRO, 2 x 3/4" NPT entries, painted LM25, includes infrared propane sensor cartridge 0 to 100%LEL, user selectable FSD between 20% and 100%LEL (10%LEL resolution), includes nylon weather protection
SPXCDULNO1	XCD Gas Detector, 4 to 20 mA output, UL/c-UL/INMETRO, 2 x 3/4" NPT entries, painted LM25, includes oxygen EC sensor cartridge 0 to 25% v/v, includes nylon weather protection
SPXCDULNHX	XCD Gas Detector, 4 to 20 mA output, UL/c-UL/INMETRO, 2 x 3/4" NPT entries, painted LM25, includes hydrogen sulfide EC sensor cartridge 0 to 50ppm, user selectable FSD between 10 and 100ppm (1 ppm resolution), includes nylon weather protection
SPXCDULNCX	XCD Gas Detector, 4 to 20 mA output, UL/c-UL/INMETRO, 2 x 3/4" NPT entries, painted LM25, includes carbon monoxide EC sensor cartridge 0 to 300ppm, user selectable FSD between 100 and 1000ppm (100 ppm resolution), includes nylon weather protection
SPXCDULNNX	XCD Gas Detector, 4 to 20 mA output, UL/c-UL/INMETRO, 2 x 3/4" NPT entries, painted LM25, includes nitrogen dioxide EC sensor cartridge 0 to 10ppm, user selectable FSD between 10 and 50ppm (5 ppm resolution), includes nylon weather protection
SPXCDULNG1	XCD Gas Detector, 4 to 20 mA output, UL/c-UL/INMETRO, 2 x 3/4" NPT entries, painted LM25, includes hydrogen EC sensor cartridge 0 to 1000ppm, includes nylon weather protection
SPXCDULNB1	XCD Gas Detector, 4 to 20 mA output, UL/c-UL/INMETRO, 2 x 3/4" NPT entries, painted LM25, includes infrared carbon dioxide sensor cartridge 0 to 2.0% v/v, includes nylon weather protection
UL/c-UL/INMETF	RO Approvals (LM25) with Modbus
Part Number	Description
SPXCDULNFXM	XCD Gas Detector, 4 to 20 mA and Modbus output, UL/c-UL/INMETRO, 2 x 3/4" NPT entries, painted LM25, includes catalytic
SPXCDULNRXM	XCD Gas Detector, 4 to 20 mA and Modbus output, UL/c-UL/INMETRO, 2 x 3/4" NPT entries, painted LM25, includes infrared methane sensor cartridge 0 to 100%LEL, user selectable FSD between 20% and 100%LEL (10%LEL resolution), includes nylon weather protection
SPXCDULNPXM	XCD Gas Detector, 4 to 20 mA and Modbus output, UL/c-UL/INMETRO, 2 x 3/4" NPT entries, painted LM25, includes infrared propane sensor cartridge 0 to 100%LEL, user selectable FSD between 20% and 100%LEL (10%LEL resolution), includes nylon weather protection
SPXCDULNO1M	XCD Gas Detector, 4 to 20 mA and Modbus output, UL/c-UL/INMETRO, 2 x 3/4" NPT entries, painted LM25, includes oxygen EC sensor cartridge 0 to 25% v/v, includes nylon weather protection



SPXCDULNHXM	XCD Gas Detector, 4 to 20 mA and Modbus output, UL/c-UL/INMETRO, 2 x 3/4" NPT entries, painted LM25, includes hydrogen
	sulfide EC sensor cartridge 0 to 50ppm, user selectable FSD between 10 and 100ppm (1 ppm resolution), includes nylon
	weather protection
SPXCDULNCXM	XCD Gas Detector, 4 to 20 mA and Modbus output, UL/c-UL/INMETRO, 2 x 3/4" NPT entries, painted LM25, includes carbon
	monoxide EC sensor cartridge 0 to 300ppm, user selectable FSD between 100 and 1000ppm (100 ppm resolution), includes
	nylon weather protection
SPXCDULNNXM	XCD Gas Detector, 4 to 20 mA and Modbus output, UL/c-UL/INMETRO, 2 x 3/4" NPT entries, painted LM25, includes nitrogen
	dioxide EC sensor cartridge 0 to 10ppm, user selectable FSD between 10 and 50ppm (5 ppm resolution), includes nylon
	weather protection
SPXCDULNG1M	XCD Gas Detector, 4 to 20 mA and Modbus output, UL/c-UL/INMETRO, 2 x 3/4" NPT entries, painted LM25, includes hydrogen
	EC sensor cartridge 0 to 1000ppm, includes nylon weather protection
SPXCDULNB1M	XCD Gas Detector, 4 to 20 mA and Modbus output, UL/c-UL/INMETRO, 2 x 3/4" NPT entries, painted LM25, includes infrared
	carbon dioxide sensor cartridge 0 to 2.0% v/v, includes nylon weather protection

Part Number	Description
SPXCDUSNFX	XCD Gas Detector, 4 to 20 mA output, UL/c-UL/INMETRO, 2 x 3/4" NPT entries, painted 316SS, includes catalytic sensor
SPXCDUSNRX	XCD Gas Detector, 4 to 20 mA output, UL/c-UL/INMETRO, 2 x 3/4" NPT entries, painted 316SS, includes infrared methane
SPXCDUSNPX	XCD Gas Detector, 4 to 20 mA output, UL/c-UL/INMETRO, 2 x 3/4" NPT entries, painted 316SS, includes infrared propane
	sensor cartridge 0 to 100%LEL, user selectable FSD between 20% and 100%LEL (10%LEL resolution), includes nylon weather
	protection
SPXCDUSNO1	XCD Gas Detector, 4 to 20 mA output, UL/c-UL/INMETRO, 2 x 3/4" NPT entries, painted 316SS, includes oxygen EC sensor
	cartridge 0 to 25% v/v, includes nylon weather protection
SPXCDUSNHX	XCD Gas Detector, 4 to 20 mA output, UL/c-UL/INMETRO, 2 x 3/4" NPT entries, painted 316SS, includes hydrogen sulfide EC
	sensor cartridge 0 to 50ppm, user selectable FSD between 10 and 100ppm (1 ppm resolution), includes nylon weather
	protection
SPXCDUSNCX	XCD Gas Detector, 4 to 20 mA output, UL/c-UL/INMETRO, 2 x 3/4" NPT entries, painted 316SS, includes carbon monoxide EC
	sensor cartridge 0 to 300ppm, user selectable FSD between 100 and 1000ppm (100 ppm resolution), includes nylon weather
	protection
SPXCDUSNNX	XCD Gas Detector, 4 to 20 mA output, UL/c-UL/INMETRO, 2 x 3/4" NPT entries, painted 316SS, includes nitrogen dioxide EC
	sensor cartridge 0 to 10ppm, user selectable FSD between 10 and 50ppm (5 ppm resolution), includes nylon weather
	protection
SPXCDUSNG1	XCD Gas Detector, 4 to 20 mA output, UL/c-UL/INMETRO, 2 x 3/4" NPT entries, painted 316SS, includes hydrogen EC sensor
	cartridge 0 to 1000ppm, includes nylon weather protection
SPXCDUSNB1	XCD Gas Detector, 4 to 20 mA output, UL/c-UL/INMETRO, 2 x 3/4" NPT entries, painted 316SS, includes infrared carbon
	dioxide sensor cartridge 0 to 2.0% v/v, includes nylon weather protection



UL/c-UL/INMETR	O Approvals (316SS) with Modbus
Part Number	Description
SPXCDUSNFXM	XCD Gas Detector, 4 to 20 mA and Modbus output, UL/c-UL/INMETRO, 2 x 3/4" NPT entries, painted 316SS, includes catalytic
SPXCDUSNRXM	XCD Gas Detector, 4 to 20 mA and Modbus output, UL/c-UL/INMETRO, 2 x 3/4" NPT entries, painted 316SS, includes infrared
	methane sensor cartridge 0 to 100%LEL, user selectable FSD between 20% and 100%LEL (10%LEL resolution), includes nylon
	weather protection
SPXCDUSNPXM	XCD Gas Detector, 4 to 20 mA and Modbus output, UL/c-UL/INMETRO, 2 x 3/4" NPT entries, painted 316SS, includes infrared
	propane sensor cartridge 0 to 100%LEL, user selectable FSD between 20% and 100%LEL (10%LEL resolution), includes nylon
	weather protection
SPXCDUSNO1M	XCD Gas Detector, 4 to 20 mA and Modbus output, UL/c-UL/INMETRO, 2 x 3/4" NPT entries, painted 316SS, includes oxygen
	EC sensor cartridge 0 to 25% v/v, includes nylon weather protection
SPXCDUSNHXM	XCD Gas Detector, 4 to 20 mA and Modbus output, UL/c-UL/INMETRO, 2 x 3/4" NPT entries, painted 316SS, includes hydrogen
	sulfide EC sensor cartridge 0 to 50ppm, user selectable FSD between 10 and 100ppm (1 ppm resolution), includes nylon
	weather protection
SPXCDUSNCXM	XCD Gas Detector, 4 to 20 mA and Modbus output, UL/c-UL/INMETRO, 2 x 3/4" NPT entries, painted 316SS, includes carbon
	monoxide EC sensor cartridge 0 to 300ppm, user selectable FSD between 100 and 1000ppm (100 ppm resolution), includes
	nylon weather protection
SPXCDUSNNXM	XCD Gas Detector, 4 to 20 mA and Modbus output, UL/c-UL/INMETRO, 2 x 3/4" NPT entries, painted 316SS, includes nitrogen
	dioxide EC sensor cartridge 0 to 10ppm, user selectable FSD between 10 and 50ppm (5 ppm resolution), includes nylon
	weather protection
SPXCDUSNG1M	XCD Gas Detector, 4 to 20 mA and Modbus output, UL/c-UL/INMETRO, 2 x 3/4" NPT entries, painted 316SS, includes hydrogen
	EC sensor cartridge 0 to 1000ppm, includes nylon weather protection
SPXCDUSNB1M	XCD Gas Detector, 4 to 20 mA and Modbus output, UL/c-UL/INMETRO, 2 x 3/4" NPT entries, painted 316SS, includes infrared
	carbon dioxide sensor cartridge 0 to 2.0% v/v, includes nylon weather protection

Part Number	Description
SPXCDALMFX	XCD Gas Detector, 4 to 20 mA output, ATEX/IECEx/Asian approvals, 2 x M20 entries, painted LM25, includes catalytic sensor
SPXCDALMRX	XCD Gas Detector, 4 to 20 mA output, ATEX/IECEx/Asian approvals, 2 x M20 entries, painted LM25, includes infrared methane
SPXCDALMPX	XCD Gas Detector, 4 to 20 mA output, ATEX/IECEx/Asian approvals, 2 x M20 entries, painted LM25, includes infrared propane
	sensor cartridge 0 to 100%LEL, user selectable FSD between 20% and 100%LEL (10%LEL resolution), includes nylon weather protection
SPXCDALMO1	XCD Gas Detector, 4 to 20 mA output, ATEX/IECEx/Asian approvals, 2 x M20 entries, painted LM25, includes oxygen EC sensor cartridge 0 to 25% v/v, includes nylon weather protection
SPXCDALMHX	XCD Gas Detector, 4 to 20 mA output, ATEX/IECEx/Asian approvals, 2 x M20 entries, painted LM25, includes hydrogen sulfide EC sensor cartridge 0 to 50ppm, user selectable FSD between 10 and 100ppm (1 ppm resolution), includes nylon weather protection
SPXCDALMCX	XCD Gas Detector, 4 to 20 mA output, ATEX/IECEx/Asian approvals, 2 x M20 entries, painted LM25, includes carbon monoxide EC sensor cartridge 0 to 300ppm, user selectable FSD between 100 and 1000ppm (100 ppm resolution), includes nylon weather protection
SPXCDALMNX	XCD Gas Detector, 4 to 20 mA output, ATEX/IECEx/Asian approvals, 2 x M20 entries, painted LM25, includes nitrogen dioxide EC sensor cartridge 0 to 10ppm, user selectable FSD between 10 and 50ppm (5 ppm resolution), includes nylon weather protection



SPXCDALMG1	XCD Gas Detector, 4 to 20 mA output, ATEX/IECEx/Asian approvals, 2 x M20 entries, painted LM25, includes hydrogen EC
	sensor cartridge 0 to 1000ppm, includes nylon weather protection
SPXCDALMB1	XCD Gas Detector, 4 to 20 mA output, ATEX/IECEx/Asian approvals, 2 x M20 entries, painted LM25, includes infrared carbon
	dioxide sensor cartridge 0 to 2.0% v/v, includes nylon weather protection

Part Number	Description
SPXCDALMFXM	XCD Gas Detector, 4 to 20 mA and Modbus output, ATEX/IECEx/Asian approvals, 2 x M20 entries, painted LM25, includes
SPXCDALMRXM	XCD Gas Detector, 4 to 20 mA and Modbus output, ATEX/IECEx/Asian approvals, 2 x M20 entries, painted LM25, includes
	infrared methane sensor cartridge 0 to 100%LEL, user selectable FSD between 20% and 100%LEL (10%LEL resolution), includes
	nylon weather protection
SPXCDALMPXM	XCD Gas Detector, 4 to 20 mA and Modbus output, ATEX/IECEx/Asian approvals, 2 x M20 entries, painted LM25, includes
	infrared propane sensor cartridge 0 to 100%LEL, user selectable FSD between 20% and 100%LEL (10%LEL resolution), includes
	nylon weather protection
SPXCDALMO1M	XCD Gas Detector, 4 to 20 mA and Modbus output, ATEX/IECEx/Asian approvals, 2 x M20 entries, painted LM25, includes
	oxygen EC sensor cartridge 0 to 25% v/v, includes nylon weather protection
SPXCDALMHXM	XCD Gas Detector, 4 to 20 mA and Modbus output, ATEX/IECEx/Asian approvals, 2 x M20 entries, painted LM25, includes
	hydrogen sulfide EC sensor cartridge 0 to 50ppm, user selectable FSD between 10 and 100ppm (1 ppm resolution), includes
	nylon weather protection
SPXCDALMCXM	XCD Gas Detector, 4 to 20 mA and Modbus output, ATEX/IECEx/Asian approvals, 2 x M20 entries, painted LM25, includes
	carbon monoxide EC sensor cartridge 0 to 300ppm, user selectable FSD between 100 and 1000ppm (100 ppm resolution),
	includes nylon weather protection
SPXCDALMG1M	XCD Gas Detector, 4 to 20 mA and Modbus output, ATEX/IECEx/Asian approvals, 2 x M20 entries, painted LM25, includes
	hydrogen EC sensor cartridge 0 to 1000ppm, includes nylon weather protection
SPXCDALMB1M	XCD Gas Detector, 4 to 20 mA and Modbus output, ATEX/IECEx/Asian approvals, 2 x M20 entries, painted LM25, includes
	infrared carbon dioxide sensor cartridge 0 to 2.0% v/v, includes nylon weather protection

Part Number	Description
SPXCDASMFX	XCD Gas Detector, 4 to 20 mA output, ATEX/IECEx/Asian approvals, 2 x M20 entries, painted 316SS,
SPXCDASMRX	XCD Gas Detector, 4 to 20 mA output, ATEX/IECEx/Asian approvals, 2 x M20 entries, painted 316SS,
SPXCDASMPX	XCD Gas Detector, 4 to 20 mA output, ATEX/IECEx/Asian approvals, 2 x M20 entries, painted 316SS,
	includes infrared propane sensor cartridge 0 to 100%LEL, user selectable FSD between 20% and
	100%LEL (10%LEL resolution), includes nylon weather protection
SPXCDASMO1	XCD Gas Detector, 4 to 20 mA output, ATEX/IECEx/Asian approvals, 2 x M20 entries, painted 316SS,
	includes oxygen EC sensor cartridge 0 to 25% v/v, includes nylon weather protection
SPXCDASMHX	XCD Gas Detector, 4 to 20 mA output, ATEX/IECEx/Asian approvals, 2 x M20 entries, painted 316SS,
	includes hydrogen sulfide EC sensor cartridge 0 to 50ppm, user selectable FSD between 10 and 100ppm
	(1 ppm resolution), includes nylon weather protection
SPXCDASMCX	XCD Gas Detector, 4 to 20 mA output, ATEX/IECEx/Asian approvals, 2 x M20 entries, painted 316SS,
	includes carbon monoxide EC sensor cartridge 0 to 300ppm, user selectable FSD between 100 and
	1000ppm (100 ppm resolution), includes nylon weather protection
SPXCDASMNX	XCD Gas Detector, 4 to 20 mA output, ATEX/IECEx/Asian approvals, 2 x M20 entries, painted 316SS,
	includes nitrogen dioxide EC sensor cartridge 0 to 10ppm, user selectable FSD between 10 and 50ppm
	(5 ppm resolution), includes nylon weather protection
SPXCDASMG1	XCD Gas Detector, 4 to 20 mA output, ATEX/IECEx/Asian approvals, 2 x M20 entries, painted 316SS,
	includes hydrogen EC sensor cartridge 0 to 1000ppm, includes nylon weather protection
SPXCDASMB1	XCD Gas Detector, 4 to 20 mA output, ATEX/IECEx/Asian approvals, 2 x M20 entries, painted 316SS,
	includes infrared carbon dioxide sensor cartridge 0 to 2.0% v/v, includes nylon weather protection



ATEX/IECEx/Asian Approvals (316SS) with Modbus		
Part Number	Description	
SPXCDASMFXM	XCD Gas Detector, 4 to 20 mA and Modbus output, ATEX/IECEx/Asian approvals, 2 x M20 entries,	
	painted 316SS, includes catalytic sensor cartridge 0 to 100%LEL, user selectable FSD between 20% and	
	100%LEL (10%LEL resolution), includes nylon weather protection	
SPXCDASMRXM	XCD Gas Detector, 4 to 20 mA and Modbus output, ATEX/IECEx/Asian approvals, 2 x M20 entries,	
	painted 316SS, includes infrared methane sensor cartridge 0 to 100%LEL, user selectable FSD between	
	20% and 100%LEL (10%LEL resolution), includes nylon weather protection	
SPXCDASMPXM	XCD Gas Detector, 4 to 20 mA and Modbus output, ATEX/IECEx/Asian approvals, 2 x M20 entries,	
	painted 316SS, includes infrared propane sensor cartridge 0 to 100%LEL, user selectable FSD between	
	20% and 100%LEL (10%LEL resolution), includes nylon weather protection	
SPXCDASMO1M	XCD Gas Detector, 4 to 20 mA and Modbus output, ATEX/IECEx/Asian approvals, 2 x M20 entries,	
	painted 316SS, includes oxygen EC sensor cartridge 0 to 25% v/v, includes nylon weather protection	
SPXCDASMHXM	XCD Gas Detector, 4 to 20 mA and Modbus output, ATEX/IECEx/Asian approvals, 2 x M20 entries,	
	painted 316SS, includes hydrogen sulfide EC sensor cartridge 0 to 50ppm, user selectable FSD between	
	10 and 100ppm (1 ppm resolution), includes nylon weather protection	
SPXCDASMCXM	XCD Gas Detector, 4 to 20 mA and Modbus output, ATEX/IECEx/Asian approvals, 2 x M20 entries,	
	painted 316SS, includes carbon monoxide EC sensor cartridge 0 to 300ppm, user selectable FSD	
	between 100 and 1000ppm (100 ppm resolution), includes nylon weather protection	
SPXCDASMG1M	XCD Gas Detector, 4 to 20 mA and Modbus output, ATEX/IECEx/Asian approvals, 2 x M20 entries,	
	painted 316SS, includes hydrogen EC sensor cartridge 0 to 1000ppm, includes nylon weather protection	
SPXCDASMB1M	XCD Gas Detector, 4 to 20 mA and Modbus output, ATEX/IECEx/Asian approvals, 2 x M20 entries,	
	painted 316SS, includes infrared carbon dioxide sensor cartridge 0 to 2.0% v/v, includes nylon weather	
	protection	



4.2 Accessories

Sensepoint XCD Accessoies		
Part Number	er Description	
S3KCAL	Calibration cap	
SPXCDCC	Collecting cone for use with lighter than air gases, must be used with SPXCDWP	
SPXCDDMK	Duct mounting kit	
SPXCDMTBR	Mounting bracket (inc. bolts, nuts, brackets)	
SPXCDSDP	Sunshade / deluge protection	

4.3 Sensepoint Replacement Toxic, Flammable and Oxygen Cartridges

Sensepoint XCD Replacement Toxic, Flammable and Oxygen Cartridges		
Part Number	Description	
SPXCDXSFXSS	Flammable CAT 0-100%LEL (20 to 100%LEL, 10%LEL)	
SPXCDXSRXSS	Methane IR 0-100%LEL (20 to 100%LEL, 10%LEL)	
SPXCDXSO1SS	Oxygen 25.0% v/v only	
SPXCDXSHXSS	Hydrogen Sulfide 0-50ppm (10.0 to 100.0ppm, 1ppm)	
SPXCDXSCXSS	Carbon Monoxide 0-300ppm (100 to 1000ppm, 100ppm)	
SPXCDXSNXSS	Nitrogen Dioxide 0-10ppm (10.0 to 50.0ppm, 5ppm)	
SPXCDXSG1SS	Hydrogen 0-1000ppm only	
SPXCDXSPXSS	Propane IR 0-100%LEL (20 to 100%LEL, 10%LEL)	
SPXCDXSB1SS	Carbon Dioxide IR 0-2.00% v/v only	

4.4 Spares (Miscellaneous)

XCD TRANSMITTER (WITHOUT SENSOR)		
Part Number	Description	
SPXCDWP	Sensepoint XCD standard weather protection	
SPXCDSRLS	Sensor retainer with locking screw	
SPXCDAKS	Allen key for stopper	
SPXCDHWES	Hex wrench for earth screw	
SPXCDEBS	Earth bracket and screws	
SPXCDMAG	Magnetic wand	

4.5 Spares (Replacement Display Module)

Each replacement Display Module includes pre-configured PCB (for Sensor and range), backlit LCD and plastic housing. The unit is a plug in replacement and simply requires configuration after fitting via the menu.

XCD TRANSMITTER (WITHOUT SENSOR)		
Part Number	Description	
SPXCDDMT	Replacement display module for oxygen (O2) & toxic	
SPXCDDMF	Replacement display module for FL & IR	
SPXCDDMTM	Replacement display module (O2 & Toxic) with MODBUS	
SPXCDDMFM	Replacement display module (FL & IR) with MODBUS	

4.6 Spares (Replacement Terminal Module)

Each replacement terminal module includes pre-configured PCB (for Sensor and range), terminals, screws, 'U' clamp, plastic cover and fixing screws.

Sensepoint XCD	Sensepoint XCD Spares (Replacement Terminal Module)	
Part Number Description		
SPXCDTMO	Replacement terminal module for oxygen (O2)	
SPXCDTMT	Replacement terminal module for toxic	
SPXCDTMF	Replacement terminal module for FL and IR	



4.7 Calibration Kits and Components

Part Number	Product	Components	Contains Part	Numbers	
XCDTOXKit	XCD Toxic Kit*	Tubing, flow adaptor, regulator,	998-100-004	S3KCAL	
		carrying case	N600 1001 33	998-100-003	
XCDCOMBKit	XCD Combustibles	Tubing, flow adaptor, regulator,	998-100-004	S3KCAL	
	Kit	carrying case	998-100-012	998-100-003	
XCDRTDKit	XCD RTD	Calibration cover, potentiometer,	02000 - A - 1645	998-100-004	
		adjustment tool, flow housing,	2106B2114	998-100-012	
		regulator, tubing	998-100-003		
XCDRFDKit	XCD RFD	Tubing, flow adaptor, regulator,	998-100-004	00780-A-0035	
		carrying case	998-100-003	998-100-012	
			998-100-003		

^{*} XCDTOXKit should be used with XCD-Flammable IR

LEL (*1-*8)





Transmitter Display

705 Sensor



Sensor Fitted to Remote

The Sensepoint RFD is a remote flammable detection system for LEL monitoring applications. The XCD RFD combines the XCD transmitter with the 705 combustible Sensor, and is certified for use in Class I Div. 1 rated areas. The XCD RFD offers one man, non-intrusive, operation and reduces routine maintenance time and costs. The XCD transmitter includes two programmable alarm/fault relays as well as an industry standard 4-20 mA output, with optional Modbus RTU. Calibration and relay operation of the transmitter may be adjusted via the transmitters' backlit LCD. Outputs are automatically inhibited during adjustment thereby reducing the risk of false alarm at the control panel during maintenance.

Sensepoint RFD is supplied with all necessary accessories for easy installation. It can be mounted on a wall or 2" round support pole using the universal bracket provided. The detector is ideal for use with either conduit or steel wire armored cable and glands and includes both 3/4 in. NPT and M20 entries to the junction box.

Sensepoint RFD offers easy installation and fast routine operation. Compatible with both standard and high temperature variants of the Sensepoint and 705 flammable Sensors from Honeywell Analytics the overall flexibility of the product range is increased. Meets Class I Div. 1 UL performance standards.

Note: Conduit and fittings not included

Certifications

- cCSAus approved for Class I, Division 1, Groups B, C & D Hazardous Locations.
- Performance approved to the following standards; C22.2-152, ANSI/ISA 121301

5.1 Sensepoint XCD RFD Transmitter

Transmitter - cCSAus Certified for North America (Class I, Div. 1, Groups B, C & D) - Transmitter only		
Part Number	Description	
SPXCDULNRFD	Transmitter with LM25, 3/4 in. NPT entry, aluminum	
SPXCDULNRFDM	Transmitter with LM25, 3/4 in. NPT entry, Modbus, aluminum	
SPXCDUSNRFD	Transmitter with 3/4 in. NPT entry, 316SS	
SPXCDUSNRFDM	Transmitter with 3/4 in. NPT entry, Modbus, 316SS	
Transmitter - cC	SAus Certified for North America (Class I, Div. 1, Groups B, C & D) - Transmitter only	
Part Number	Description	
SPXCDASMRFD	ATEX/IECEX & AP approved SP XCD RFD Transmitter with 316SS	
SPXCDALMRFD	ATEX/IECEX & AP approved SP XCD RFD Transmitter with LM25	
SPXCDALMRFD SPXCDASMRFDM		

5.2 Sensors

Sensors		
Part Number	Description	
00705-A-1733	705 combustible sensor - aluminum - cat bead (SG16B) 0-100% LEL	
00705-A-1735	705 high temperature combustible sensor - 150 °C - UL / 3/4 in. NPT threads	
SPXCDXSRFXSS	Sensepoint XCD RFD remote plug-in sensor and socket, flammable CAT 0-100%LEL, ATEX only	
SPXCDXSRRXSS	Sensepoint XCD RFD remote plug-in sensor and socket, Methane IR 0-100%LEL, ATEX only	
SPXCDXSRPXSS	Sensepoint XCD RFD remote plug-in sensor and socket, Propane IR 0-100%LEL, ATEX only	
SPXCDXSRB1SS	Sensepoint XCD RFD remote plug-in sensor and socket, Carbon Dioxide IR 0-2.00%VOL only, ATEX only	
2106B1202	Sensepoint 0-100% LEL combustible sensor	

5.3 Kits

Kits	
Part Number	Description
XCDRFDL	Transmitter with LM25, 3/4 in. NPT entry, aluminum, 705 Sensor, and 3 wire junction box
XCDRFDLH	Transmitter with LM25, 3/4 in. NPT entry, aluminum, 705 high temp Sensor and 3 wire junction box
XCDRFDLM	Transmitter with LM25, 3/4 in. NPT entry, Modbus, aluminum, 705 Sensor, and 3 wire junction box
XCDRFDLMH	Transmitter with LM25, 3/4 in. NPT entry, Modbus, aluminum, 705 High Temp Sensor, and 3 wire junction box
XCDRFDS	Transmitter with 3/4 in. NPT entry, 316SS, with 705 Sensor, and 3 wire junction box
XCDRFDSH	Transmitter with 3/4 in. NPT entry, 316SS, 705 high temp Sensor, and 3 wire junction box
XCDRFDSM	Transmitter with 3/4 in. NPT entry, Modbus, 316SS, 705 Sensor, and 3 wire junction box
XCDRFDSMH	Transmitter with 3/4 in. NPT entry, Modbus, 316SS, 705 high temp Sensor, and 3 wire junction box

5.4 Accessories

Kits	
Part Number	Description
SPXCDMTBR	Pipe Mounting bracket (inc. fixings and hex wrench set)
SPXCDSDP	Sunshade / deluge protection
00780-A-0076	Weather protection stainless steel for 705 HT
02000-A-1640	Nylon weather protection for combustible Sensor
02000-A-1635	Weather protection housing
1283-1047	Duct mount adaptor assembly (requires 1283-1084)
1283-1084	Sensepoint adaptor interface Kit (requires 1283-1047)
00780-A-0035	Calibration gas flow adaptor (for use with 705 Sensors)

5.5 Spares

Spares	
Part Number	Description
SPXCDDMR	XCD RFD Flam & IR Display Module
SPXCDDMRM	XCD RFD Flam & IR ModBus Display Module
SPXCDTMR	XCD RFD Replacement Terminal Module
SPXCDDMR	XCD RFD Flam & IR Display Module
SPXCDDMRM	XCD RFD Flam & IR ModBus Display Module
SPXCDTMR	XCD RFD Replacement Terminal Module

6. 705

Combustable Gas Detector





The 705 Combustible Gas Sensor is a low cost, explosion proof Sensor assembly, fitted with poison-resistant combustible gas detection elements. Fully encapsulated, it is designed for use in hazardous locations. The Sensor is electro-catalytic and consists of 2 beads of refractory oxide, formed on a fine platinum wire coil. The active bead is coated with a catalyst material, while the reference bead is glass coated. In the presence of gas, the catalyst coated bead promotes the oxidation of the gas, causing it to heat up and increase in electrical resistance. This change of resistance, relative to the reference bead, can be measured and is in direct proportion to the concentration of combustible gas.

Features

• Fast response

- High resistance to catalytic poisoning
- Low cost, high performance design
- Low Powerconsumption
- Accurate, trouble free gas detection
- Corrosion resistant aluminum construction
- Five year warranty

Approvals

- CSA & UL approved (705 HT UL only)
- Class I, Div 1, Groups B, C & D

6.1 INSTRUMENT

High Temperature Version	
Part Number	Description
2430K0001	705 Flammable Detector, SG16B Junction Box, WP

6.2 ACCESSORIES

Accessories			
Part Number	Description		
2441-0022	UL/CSA Aluminium Junction Box Asseml	bly	
02000-A-1640	Weatherproof cap for use with combust	tible detector including remote gassing	
	nozzle (for Sensepoint, Signalpoint, Satellite (with adapter), XNX MPD and Series		
00780-A-0035	Flow Housing (full stainless steel, for high temp applications)		
00780-A-0076	Stainless steel weather housing for Sensepoint HT or 705 HT (for use with in high		
temperature applications or with duct mounting kits)		nounting kits)	
02000-A-1635	Weatherproof cap for use with toxic det	tector including remote gassing nozzle (for	
	Sensepoint, Signalpoint, Satellite (with a	adapter), XNX MPD and Series 2000)	
02000-A-1642	Collecting cone for use with flammable	detector (for Sensepoint, Signalpoint,	
	Satellite (with adapter), XNX MPD and Series 2000)		
1283-1047	Duct mount adaptor assembly (requires 1283-1084)		
1283-1084	Sensepoint adaptor interface Kit (requires 1283-1047)		
705CALKIT	Calibration Kit:	Contains:	
	Tubing, flow adaptor, regulator,	998-100-004	
	carrying case	00780-A-0035	
		998-100-012 (1.5LPM)	
		998-100-003	

6.3 SPARES

Spares	
Part Number	Description
00705-A-1733	705 Flammable Detector- Aluminium- UL- 3/4NPT- 0-100% LEL
00705-A-1735	705 High Temperature Flammable Detector- Aluminum- 150 deg C- UL- 3/4NPT





CI2, CO, H2, H2S, NH3, NO, NO2, O2, SO2

Sensepoint XCD RTD from Honeywell Analytics makes it easy on your maintenance team, time and budget when faced with the challenge of monitoring toxic gases in Class I, Div. 2 areas.

You can mount the unit away from the transmitter to obtain maximum gas detection coverage in areas not easily accessible or where the Sensor would not be visible, as in high-or low-level concealed areas, or detection outside the room being monitored. XCD RTD offers unrivaled flexibility and performance via its easily recognizable display (traffic light pattern) to convey safety status, communication and Mounting options, and onboard diagnostics.

Reduce Cost of Ownership Over Life of the Product

- Cut stocking and procurement costs with a common transmitter platform
- Reduce maintenance time and expense with non-intrusive, one-man operation
- Simplify maintenance with plug-in, removable Sensor
- Reduce inspection and training time with tri-color 'traffic light' display conveying safety status at a glance
- Simplify set-up and configuration with non-intrusive magnetic switches

Certifications

- cCSAus Ex d IIB+H2; Class I, Zone 1, AEx d IIB+H2; Class I, Div 2, Groups B, C & D
- Class I, Zone 1, AEx d ia IIC Gb; Class I, Div. 2, Groups B, C and D
- InMetro Ex d IIC T6 Gb, Ex tb IIIC T85 $^{\circ}$ C Db, IP66, -40 $^{\circ}$ C < ta < +65 $^{\circ}$ C

Gain Added Flexibility, Reliability and Performance

- Mount in the most difficult to access areas
- Reduce likelihood of human error via on-board diagnostics and easy-to-read display
- Protect against dust/water ingress with IP66/67 rated stainless steel or aluminum enclosure
- Prevent false alarms with auto-inhibit during maintenance
- Select sink or source 4-20 mA output; integral or remote configuration
- Full range of accessories and purchase options let you choose the remote monitoring system that's right for your application
- Optional Modbus RTU communications for remote configuration



Sensor Fitted to Remote Junction Box

Note: Conduit and fittings not included

7.1 Instrument

Sensepoint XCD RT	Sensepoint XCD RTD: Class I, Div. 2 Explosion Proof Transmitter 4-20 mA, 3 Relays) and Sensepoint Toxic Sensor		
Part Number	Description		
SPXCDULNO2	Oxygen (O2) 0-25% v/v, aluminum enclosure		
SPXCDUSNO2	Oxygen (O2) 0-25% v/v, stainless steel enclosure		
SPXCDULNO2M	Oxygen (O2) 0-25% v/v, aluminum enclosure, Modbus		
SPXCDUSNO2M	Oxygen (O2) 0-25% v/v, stainless steel enclosure, Modbus		
SPXCDULNH2	Hydrogen sulfide (H2S) 0-50 ppm, aluminum enclosure		
SPXCDUSNH2	Hydrogen sulfide (H2S) 0-50 ppm, stainless steel enclosure		
SPXCDULNH2M	Hydrogen sulfide (H2S) 0-50 ppm, aluminum enclosure, Modbus		
SPXCDUSNH2M	Hydrogen sulfide (H2S) 0-50 ppm, stainless steel enclosure, Modbus		
SPXCDULNC2	Carbon monoxide (CO) 0-200 ppm, aluminum enclosure		
SPXCDUSNC2	Carbon monoxide (CO) 0-200 ppm, stainless steel enclosure		
SPXCDULNC2M	Carbon monoxide (CO) 0-200 ppm, aluminum enclosure, Modbus		
SPXCDUSNC2M	Carbon monoxide (CO) 0-200 ppm, stainless steel enclosure, Modbus		
SPXCDULNG2	Hydrogen (H2) 0-1,000 ppm, aluminum enclosure		
SPXCDUSNG2	Hydrogen (H2) 0-1,000 ppm, stainless steel enclosure		
SPXCDULNG2M	Hydrogen (H2) 0-1,000 ppm, aluminum enclosure, Modbus		
SPXCDUSNG2M	Hydrogen (H2) 0-1,000 ppm, stainless steel enclosure, Modbus		
SPXCDULNN2	Nitrogen dioxide (NO2) 0-10 ppm, aluminum enclosure		
SPXCDUSNN2	Nitrogen dioxide (NO2) 0-10 ppm, stainless steel enclosure		
SPXCDULNN2M	Nitrogen dioxide (NO2) 0-10 ppm, aluminum enclosure, Modbus		
SPXCDUSNN2M	Nitrogen dioxide (NO2) 0-10 ppm, aluminum enclosure, Modbus		
SPXCDULNA2	Ammonia (NH3) 0-50 ppm, aluminum enclosure		
SPXCDUSNA2	Ammonia (NH3) 0-50 ppm, stainless steel enclosure		
SPXCDULNA2M	Ammonia (NH3) 0-50 ppm, aluminum enclosure, Modbus		
SPXCDUSNA2M	Ammonia (NH3) 0-50 ppm, stainless steel enclosure, Modbus		
SPXCDULNL2	Chlorine (Cl2) 0-5 ppm, aluminum enclosure		
SPXCDUSNL2	Chlorine (Cl2) 0-5 ppm, stainless steel enclosure		
SPXCDULNL2M	Chlorine (Cl2) 0-5 ppm, aluminum enclosure, Modbus		
SPXCDUSNL2M	Chlorine (Cl2) 0-5 ppm, stainless steel enclosure, Modbus		
SPXCDULNS2	Sulfur dioxide (SO2) 0-15 ppm, aluminum enclosure		
SPXCDUSNS2	Sulfur dioxide (SO2) 0-15 ppm, stainless steel enclosure		
SPXCDULNS2M	Sulfur dioxide (SO2) 0-15 ppm, aluminum enclosure, Modbus		
SPXCDUSNS2M	Sulfur dioxide (SO2) 0-15 ppm, stainless steel enclosure, Modbus		
SPXCDULND2	Nitric oxide (NO) 0-100 ppm, aluminum enclosure		
SPXCDUSND2	Nitric oxide (NO) 0-100 ppm, stainless steel enclosure		
SPXCDULND2M	Nitric oxide (NO) 0-100 ppm, aluminum enclosure, Modbus		
SPXCDUSND2M	Nitric oxide (NO) 0-100 ppm, stainless steel enclosure, Modbus		

Sensepoint XCD RTD: Class I, Div. 2: XP Explosion Proof Transmitter (4-20 mA, 3 Relays), Sensepoint Toxic Sensor and Junction Box

Part Number	Description
SPXCDULNO2R	Oxygen (O2) 0-25%, aluminum enclosure
SPXCDUSNO2R	Oxygen (O2) 0-25%, stainless steel enclosure
SPXCDULNO2RM	Oxygen (O2) 0-25%, aluminum enclosure, Modbus
SPXCDUSNO2RM	Oxygen (O2) 0-25%, stainless steel enclosure, Modbus
SPXCDULNH2R	Hydrogen sulfide (H2S) 0-50 ppm, aluminum enclosure
SPXCDUSNH2R	Hydrogen sulfide (H2S) 0-50 ppm, stainless steel enclosure
SPXCDULNH2RM	Hydrogen sulfide (H2S) 0-50 ppm, aluminum enclosure, Modbus
SPXCDUSNH2RM	Hydrogen sulfide (H2S) 0-50 ppm, stainless steel enclosure, Modbus
SPXCDULNC2R	Carbon monoxide (CO) 0-200 ppm, aluminum enclosure
SPXCDUSNC2R	Carbon monoxide (CO) 0-200 ppm, stainless steel enclosure
SPXCDULNC2RM	Carbon monoxide (CO) 0-200 ppm, aluminum enclosure, Modbus
SPXCDUSNC2RM	Carbon monoxide (CO) 0-200 ppm, stainless steel enclosure, Modbus
SPXCDULNG2R	Hydrogen (H2) 0-1,000 ppm, aluminum enclosure
SPXCDUSNG2R	Hydrogen (H2) 0-1,000 ppm, stainless steel enclosure
SPXCDULNG2RM	Hydrogen (H2) 0-1,000 ppm, aluminum enclosure, Modbus
SPXCDUSNG2RM	Hydrogen (H2) 0-1,000 ppm, stainless steel enclosure, Modbus
SPXCDULNN2R	Nitrogen dioxide (NO2) 0-10 ppm, aluminum enclosure
SPXCDUSNN2R	Nitrogen dioxide (NO2) 0-10 ppm, stainless steel enclosure
SPXCDULNN2RM	Nitrogen dioxide (NO2) 0-10 ppm, aluminum enclosure, Modbus
SPXCDUSNN2RM	Nitrogen dioxide (NO2) 0-10 ppm, stainless steel enclosure, Modbus
SPXCDULNA2R	Ammonia (NH3) 0-50 ppm, aluminum enclosure
SPXCDUSNA2R	Ammonia (NH3) 0-50 ppm, stainless steel enclosure
SPXCDULNA2RM	Ammonia (NH3) 0-50 ppm, aluminum enclosure, Modbus
SPXCDUSNA2RM	Ammonia (NH3) 0-50 ppm, stainless steel enclosure, Modbus
SPXCDULNL2R	Chlorine (Cl2) 0-5 ppm, aluminum enclosure
SPXCDUSNL2R	Chlorine (Cl2) 0-5 ppm, stainless steel enclosure
SPXCDULNL2RM	Chlorine (Cl2) 0-5 ppm, aluminum enclosure, Modbus
SPXCDUSNL2RM	Chlorine (Cl2) 0-5 ppm, stainless steel enclosure, Modbus
SPXCDULNS2R	Sulfur dioxide (SO2) 0-15 ppm, aluminum enclosure
SPXCDUSNS2R	Sulfur dioxide (SO2) 0-15 ppm, stainless steel enclosure
SPXCDULNS2RM	Sulfur dioxide (SO2) 0-15 ppm, aluminum enclosure, Modbus
SPXCDUSNS2RM	Sulfur dioxide (SO2) 0-15 ppm, stainless steel enclosure, Modbus
SPXCDULND2R	Nitric oxide (NO) 0-10 ppm, aluminum enclosure
SPXCDUSND2R	Nitric oxide (NO) 0-10 ppm, stainless steel enclosure
SPXCDULND2RM	Nitric oxide (NO) 0-10 ppm, aluminum enclosure, Modbus
SPXCDUSND2RM	Nitric oxide (NO) 0-10 ppm, stainless steel enclosure, Modbus

7.2 Replacement Sensors

XCD RTD Replacement Sensors: Sensepoint Toxic Sensors Class I, Div. 2 (3/4 in. NPT)		
Part Number	Description	
2106B1830	Oxygen (O2) 0-25% v/v Sensor	
2106B1801	Hydrogen sulfide (H2S) 0-50 ppm, Sensor	
2106B1806	Carbon monoxide (CO) 0-200 ppm, Sensor	
2106B1816	Hydrogen (H2) 0-1,000 ppm, replacement Sensor	
2106B1822	Nitrogen dioxide (NO2) 0-10 ppm, replacement Sensor	
2106B1813	Ammonia (NH3) 0-50 ppm, replacement Sensor	
2106B1810	Chlorine (Cl2) 0-5 ppm, replacement Sensor	
2106B1820	Sulfur dioxide (SO2) 0-15 ppm, replacement Sensor	
2106B1818	Nitric oxide (NO) 0-100 ppm, replacement Sensor	

7.3 Replacement Spares

XCD RTD Spares Class I, Div. 2		
Part Number	Description	
SPXCDULNTX4	Sensepoint XCD RTD transmitter, 4-20 mA, 3 relays	
SPXCDUSNTX4	Sensepoint XCD RTD transmitter, 4-20 mA, 3 relays, stainless steel	
SPXCDULNTX4M	Sensepoint XCD RTD transmitter, 4-20 mA, 3 relays, Modbus	
SPXCDUSNTX4M	Sensepoint XCD RTD transmitter, 4-20 mA, 3 relays, Modbus stainless steel	
2106B1545	Oxygen (O2) electrochemical cell exchange Kit	
2106B1546	Sulfur dioxide (SO2) electrochemical cell exchange Kit	
2106B1547	Chlorine (Cl2) electrochemical cell exchange Kit	
2106B1548	Carbon monoxide (CO) electrochemical cell exchange Kit	
2106B1549	Hydrogen sulfide (H2S) electrochemical cell exchange Kit	
2106B1594	Nitric oxide (NO) electrochemical cell exchange Kit	
2106B1596	Ammonia (NH3) 0-50 ppm, electrochemical cell exchange Kit	
2106B1597	Hydrogen (H2) 0-1,000 ppm, electrochemical cell exchange Kit	
2106B1599	Nitrogen dioxide (NO2) 0-10 ppm, electrochemical cell exchange Kit	
2430-0021	Sensepoint XCD RTD remote junction box, 3 terminal	
SPXCDDM4	Replacement display module for RTD (4~20mA)	
SPXCDDMR	Replacement display module for RFD (4~20mA)	
SPXCDDM4M	Replacement display module for RTD (4~20mA), with MODBUS	
SPXCDDMRM	Replacement display module for RFD (4~20mA), with MODBUS	
1283-1047	Duct mount adaptor assembly (requires 1283-1084)	
1283-1084	Sensepoint adaptor interface Kit (requires 1283-1047)	

7.4 Accessories

Accessories		
Part Number	Description	
SPXCDMTBR	Pipe mounting bracket (inc. fixings and hex wrench set)	
SPXCDSDP	Sunshade / deluge protection	
02000-A-1635	Series 2000 weather housing use with toxic Sensor	
02000-A-1645	Series 2000 flow housing assembly	
2106B2114	Toxic calibration kit with calibration cover, removal tool, potentiometer adjustment tool Note: Flow housing (02000-A-1645) is required and must be ordered separately.	

For all XCD calibration kits and components, please consult the XCD product page or Calibration Kits and Calibration gas pages.

8. Sensepoint Flammable and Toxic Hazardous Area Approved Gas Detectors



Cl2, CO, H2, H2S, NH3, NO, NO2, O2, SO2

Sensepoint is a range of hazardous area certified combustible and toxic gas detectors suitable for indoor and outdoor environments. The combustible version is disposable whereas the toxic version allows users to replace the sensing element.



Certifications include

North America: cCSAus Class I Div. 2 (Toxic only)

European: ATEX Australian: SAA

Performance approvals include

European combustible EN50054/57 European toxic pr EN45544 Casing manufactured from PPS plastic

Wiring

Combustible 3 wire mV Toxic 2 wire 4-20 mA

Mounting thread

M20, M25, 3/4 in. NPT

Ordering information

Select gas range and thread from the following tables.

8.1 Instruments

Combustible Sensor (ATEX Only)	
Part Number	Description
2106B1200	Sensepoint 0-100% LEL Flam. Sensor M20
2106B1201	Sensepoint 0-100% LEL Flam. Sensor M25
2106B1204	Sensepoint 0-100% LEL Flam. Sensor 3/4NPT

^{*} please refer to the manual for gas specific unit and range

Note: For a complete sensor order correct number of BARTEC J.Box 00780-A-0100 and Weather Housing 02000-A-1640

Combustible Sensor - High Temperature (150°C with 3rd Party Performance Approval)		
Part Number	Description	
2106B2310	Sensepoint HT Flammable Sensor (ATEX) M20	
2106B2311	Sensepoint HT Flammable Sensor (ATEX) M25	
2106B2312	Sensepoint HT Flammable Sensor (ATEX) 3/4 NPT	
Note: For a complete sensor order correct number of FEEL Exe J.Box 2052D0001 and Weather Housing 00780-A-0076		

Sensepoint Toxic Sensor (ATEX)Sensepoint Toxic Sensor (cCSAus Class I, Div. 2)Part NumberDescription2106B1700Sensepoint H2S 0-20 ppm Toxic Sensor 3/4NPT2106B1701Sensepoint H2S 0-50 ppm Toxic Sensor 3/4NPT2106B1702Sensepoint H2S 0-100 ppm Toxic Sensor 3/4NPT2106B1801Sensepoint H2S 0-50 ppm Toxic Sensor 3/4NPT CSA2106B1400Sensepoint H2S 0-20 ppm Toxic Sensor M202106B1401Sensepoint H2S 0-50 ppm Toxic Sensor M20

8. Sensepoint Flammable and Toxic Hazardous Area Approved Gas Detectors



2106B1402	Sensepoint H2S 0-100 ppm Toxic Sensor M20
2106B1706	Sensepoint CO 0-200 ppm Toxic Sensor 3/4NPT
2106B1707	Sensepoint CO 0-500 ppm Toxic Sensor 3/4NPT
2106B1806	Sensepoint CO 0-200 ppm Toxic Sensor 3/4NPT CSA
2106B1405	Sensepoint CO 0-100 ppm Toxic Sensor M20
2106B1406	Sensepoint CO 0-200 ppm Toxic Sensor M20
2106B1407	Sensepoint CO 0-500 ppm Toxic Sensor M20
2106B1711	Sensepoint Cl2 0-15 ppm Toxic Sensor 3/4NPT
2106B1810	Sensepoint Cl2 0-5 ppm Toxic Sensor 3/4NPT CSA
2106B1410	Sensepoint Cl2 0-5 ppm Toxic Sensor M20
2106B1411	Sensepoint Cl2 0-15 ppm Toxic Sensor M20
2106B1713	Sensepoint NH3 0-50 ppm Toxic Sensor 3/4NPT
2106B1714	Sensepoint NH3 0-1000 ppm Toxic Sensor 3/4NPT
2106B1715	Sensepoint NH3 0-100 ppm Toxic Sensor 3/4NPT
2106B1813	Sensepoint NH3 0-50 ppm Toxic Sensor 3/4NPT CSA
2106B1413	Sensepoint NH3 0-50 ppm Toxic Sensor M20
2106B1414	Sensepoint NH3 0-1000 ppm Toxic Sensor M20
2106B1415	Sensepoint NH3 0-100 ppm Toxic Sensor M20
2106B1816	Sensepoint H2 0-1000 ppm Toxic Sensor 3/4NPT CSA
2106B1817	Sensepoint H2 0-10000ppm Toxic Sensor 3/4NPT CSA
2106B1416	Sensepoint H2 0-1000 ppm Toxic Sensor M20
2106B1417	Sensepoint H2 0-10000 ppm Toxic Sensor M20
2106B1818	Sensepoint NO 0-100 ppm Toxic Sensor 3/4NPT CSA
2106B1418	Sensepoint NO 0-100 ppm Toxic Sensor M20
2106B1820	Sensepoint SO2 0-15 ppm Toxic Sensor 3/4NPT CSA
2106B1420	Sensepoint SO2 0-15 ppm Toxic Sensor M20
2106B1421	Sensepoint SO2 0-50 ppm Toxic Sensor M20
2106B1822	Sensepoint NO2 0-10 ppm Toxic Sensor 3/4NPT CSA
2106B1422	Sensepoint NO2 0-10 ppm Toxic Sensor M20
2106B1730	Sensepoint O2 25% V/V Toxic Sensor 3/4NPT
2106B1830	Sensepoint 0-25 V/V O2 Toxic Sensor 3/4NPT CSA
2106B1430	Sensepoint O2 25% V/V Toxic Sensor M20
Note: For a com	plate sensor order correct number of RARTEC I Roy 00780-A-0100 and Weather Housing 02000-A-1635

Note: For a complete sensor order correct number of BARTEC J.Box 00780-A-0100 and Weather Housing 02000-A-1635

8. Sensepoint Flammable and Toxic Hazardous Area Approved Gas Detectors



8.2 Accessories

Accessories			
Part Number	Description		
00780-A-0100	Honeywell Junction Box- Bartec OTB122	2 With Continuity Plate 1 X 25mm - 3 X 20mm	
	Entries - ATEX Approved		
00780-A-0160	Right Angle Mounting Bracket For Junct	ion Box 00780-A-0100	
02000-A-1635	Weatherproof cap for use with toxic detector including remote gassing nozzle (for		
	Sensepoint, Signalpoint, Satellite (with a	adapter), XNX MPD and Series 2000)	
02000-A-1640	Weatherproof cap for use with combustible detector including remote gassing nozzle (for		
	Sensepoint, Signalpoint, Satellite (with adapter), XNX MPD and Series 2000)		
02000-A-1642	Collecting cone for use with flammable	detector (for Sensepoint, Signalpoint, Satellite (with	
	adapter), XNX MPD and Series 2000)		
02000-A-1645	Flow Housing Assembly (for Sensepoint	, Signalpoint, Satellite (with adapter), XNX MPD and	
	Series 2000)		
2106B1110	Catalytic Bridge To 4-20mA Converter		
2106B2114	,		
	potentiometer adjustment tool		
2106D2055	M36/M40 thread adaptor		
225-262-138	Cable gland and caps, 20mm, Nylon		
2052D0001	ATEX Approved HT Junction Box, cast iron (-60 to 150C)		
SNSPTCALKit	Calibration Kit:	Contains:	
	Tubing, flow adaptor, regulator,	0310-2021	
	carrying case	02000-A-1645	
		998-100-012 (1.5LPM)	
		998-100-003	

8.3 Replacement Sensor Kits

Kits include sensor cartridge, RFI screen, hydrophobic barrier, and o-ring

Replacement Sensor Kits	
Part Number	Description
2106B1545	O2 Electrochemical Cell Exch Kit
2106B1546	SO2 Electrochemical Cell Exchange Kit
2106B1547	Cl2 Electrochemical Cell Exch Kit
2106B1548	CO Electrochemical Cell Exch Kit
2106B1549	H2S Electrochemical Cell Exch Kit
2106B1594	NO Electrochemical Cell Exchange Kit
2106B1595	NH3 0-1000 ppm Electrochemical Cell Exch Kit
2106B1596	NH3 0-50 ppm Electrochemical Cell Exch kit
2106B1597	H2 0-1000 ppm Electrochemical Cell Exchange Kit
2106B1598	H2 10000 ppm Electrochemical Exchange Kit
2106B1599	NO2 0-10 ppm Electrochemical Exchange Kit

9. Sensepoint with Junction Box



CH4, Cl2, CO, H2, H2S, NH3, NO2, O2, SO2



The Sensepoint range of flammable, toxic and oxygen gas Detectors offer users a low cost solution to their gas monitoring needs, in or out of doors and even in potentially explosive atmospheres (ATEX approval only). Supplied with a pre-wired junction box, the Detector can be installed using conduit or armored Cable and glands depending on individual site standards. The junction box includes a hinged lid to ensure both hands are free to complete electrical connections. Threaded M20 as well as 3/4 in. and 1/2" NPT clearance entries are included as standard, each one fitted with an appropriate seal, so enabling the user to select the most convenient entry size to use.

Each ATEX approved Sensepoint is supplied complete with pre-wired universal junction box (1 x threaded M20, 1x clearance 3/4 in. NPT, 1 x clearance 1/2 in. NPT, 3 x approved stopping plugs, earth continuity plate), instruction manual and factory set gas Sensor as listed below.

9.1 INSTRUMENT

Each ATEX approved Sensepoint is supplied complete with pre-wired universal junction box (1 x threaded M20, 1x clearance 3/4"NPT, 1 x clearance

Sensepoint with Junction Box	
Part Number	Description
SPSTAXF1	0-100%LEL Methane
SPSTAXO1	0-25%v/v Oxygen
SPSTAXC1	0-200ppm Carbon Monoxide
SPSTAXC2	0-500ppm Carbon Monoxide
SPSTAXH1	0-50ppm Hydrogen Sulphide
SPSTAXH2	0-20ppm Hydrogen Sulphide
SPSTAXH3	0-100ppm Hydrogen Sulphide
SPSTAXG1	0-1,000ppm Hydrogen
SPSTAXG2	0-10,000ppm Hydrogen
SPSTAXL1	0-5ppm Chlorine
SPSTAXL2	0-15ppm Chlorine
SPSTAXS1	0-15ppm Sulphur Dioxide
SPSTAXS2	0-50ppm Sulphur Dioxide
SPSTAXN1	0-10ppm Nitrogen Dioxide
SPSTAXA1	0-50ppm Ammonia
SPSTAXA2	0-1000ppm Ammonia

9. Sensepoint with Junction Box



9.2 ACCESSORIES, CONSUMABLES & SPARES

Accessories		
Part Number	Description	
02000-A-1645	Calibration gas flow housing (for flammable and toxic)	
00780-A-0160	Right Angle Mounting Bracket For Junct	tion Box 00780-A-0100
02000-A-1635	Weatherproof cap for use with flamma	ble detector including remote gassing nozzle
02000-A-1640	Weatherproof cap for use with toxic/ox	kygen detector including remote gassing nozzle
02000-A-1642	Collecting cone for use with flammable	detector
SNSPTCALKit	Calibration Kit:	Contains:
	Tubing, flow adaptor, regulator,	0310-2021
	carrying case	02000-A-1645
		998-100-012 (1.5LPM)
		998-100-003

Consumables (Spare Sensors)	
Part Number	Description
SPSTAXF1SS	0-100%LEL Methane
SPSTAXO1SS	0-25%v/v Oxygen
SPSTAXC1SS	0-200ppm Carbon Monoxide
SPSTAXC2SS	0-500ppm Carbon Monoxide
SPSTAXH1SS	0-50ppm Hydrogen Sulphide
SPSTAXH2SS	0-20ppm Hydrogen Sulphide
SPSTAXH3SS	0-100ppm Hydrogen Sulphide
SPSTAXG1SS	0-1,000ppm Hydrogen
SPSTAXG2SS	0-10,000ppm Hydrogen
SPSTAXL1SS	0-5ppm Chlorine
SPSTAXL2SS	0-15ppm Chlorine
SPSTAXS1SS	0-15ppm Sulphur Dioxide
SPSTAXS2SS	0-50ppm Sulphur Dioxide
SPSTAXN1SS	0-10ppm Nitrogen Dioxide
SPSTAXA1SS	0-50ppm Ammonia
SPSTAXA2SS	0-1000ppm Ammonia

10. Safe Area XCD Stand alone detector with true plug and play functionality



The Safe Area XCD with integrated horn and strobe allows the addition of audio and visual alarm indications to the XCD transmitter that incorporates relay outputs with 3/4" NPT threaded input ports. The Safe Area XCD includes the horn and light stack, 90° elbow, threaded nipple, strain relief, thread reducer, and a 0.67A 24VDC wall power supply. A stand alone solution for uncertified and general purpose areas.

Applications

- Warehouses/Shipping Areas
- Maintenance Garage
- Hospital/Ambulance Bay
- Battery Charging Rooms

Benefits

- Plug and play operation (120VAC)
- No additional wiring required
- Combustible/toxic gas detection
- 3 x 5 amp relays
- Battery Charging Rooms

The below are GENERAL PURPOSE application gas detectors that have an integral H/S and 24VDC PSU	
Part Number	Description
SVIP3823-1	XCD CAT 0-100% LEL with Horn/Strobe
SVIP3823-2	XCD IR CH4 0-100% LEL with Horn/Strobe
SVIP3823-3	XCD IR Prop 0-100% LEL with Horn/Strobe
SVIP3823-4	XCD IR CO2 0-2% V/V with Horn/Strobe
SVIP3823-5	XCD ECC O2 25% V/V with Horn/Strobe
SVIP3823-6	XCD ECC H2S 0-50ppm with Horn/Strobe
SVIP3823-7	XCD ECC CO 0-300ppm with Horn/Strobe
SVIP3823-8	XCD ECC H2 0-1000ppm with Horn/Strobe
SVIP3823-9	XCD ECC NO2 0-10ppm with Horn/Strobe

11. Series 3000





The Series 3000 range of transmitters provide comprehensive monitoring of toxic and Oxygen gas hazards in potentially explosive atmospheres. Suitable for Mounting both indoors and out, they are available in two Versions and offer Searchline Excellent versatility. The Series 3000 MkII is contained in a flameproof housing, has an intrinsically safe Sensor connection and is for use in predominantly Zone 1 applications. However with the use of the optional remote Mounting Kit the Sensor of the Series 3000 MkII can be mounted in a Zone 0 environment. The Series 3000 MkIII is for use with a separate suitable IS barrier (to be ordered separately) allowing the complete transmitter to be used in Zone 0 applications.

These low powered gas Detectors all feature a loop powered 4-20 mA connection, making them ideal for both new and retrofit installations. Users can configure the Detector through the use of the easy to read LCD and intuitive interface while fault diagnostic software and a programmable calibration period greatly simplify maintenance procedures.

The intrinsically safe smart Sensors are supplied pre-configured and can be 'hot swapped' without having to remove Powerto the Detector, saving time and money during commissioning and routine servicing. A remote Sensor Mounting Kit is available that allows the Sensor to be mounted up to 50' (15m) from the transmitter, making it ideal for operation in areas that are difficult to access.

Series 3000 MkII and Mk III are supplied with all necessary accessories for easy installation. The Detector has 4 Mounting lugs for surface Mounting or and optional pipe Mounting Kit. Electrical installation can be made using either conduit or Cable with suitable mechanical protection. Available in painted Aluminium LM25 or Stainless Steel 316 with two %" NPT entries or two M20 entries with a suitable blanking plug (certification type dependent) included as standard. A weatherproof cap is also included for use in the harshest outdoor conditions.

Certifications

• UL/c-UL Class I, Div 1 & 2, Groups B, C & D; Class II, Div 1, Groups E, F, G; Class II, Div 2, Groups F & G, Class I Zone 1, Group 2B + H2 Hazardous Locations

• ATEX: II 2 (1) G Ex d [ia] IIB+H2 T4 (Tamb -4°F to +131°F/-20°C to +55°C) IECEx Ex d [ia] IIB + H2 T4

11.1 Series 3000 MkII Instrument

Series 3000 MkII transmitter (flameproof) is supplied complete with integral surface mounting lugs, 2 x 3/4"NPT or 2 x M20 conduit/cable entries (certification dependent), 1 x suitable blanking plug, 1 x hex wrench set, weatherproof cap, operating magnet, calibration and test certificate and instruction manual. Gas specific Sensor and accessories to be ordered separately.

S3K MkII Transmitter	
Part Number	Description
S3KUL2	UL/cUL approved Series 3000 MkII toxic and oxygen transmitter, Aluminium LM25 and 2 x 3/4"NPT entries
S3KUS2	UL/cUL approved Series 3000 MkII toxic and oxygen transmitter, Stainless Steel 316 and 2 x 3/4"NPT entries
S3KAL2	ATEX/IECEx approved Series 3000 MkII toxic and oxygen transmitter, Aluminium LM25 and 2 x M20 entries
S3KAS2	ATEX/IECEx approved Series 3000 MkII toxic and oxygen transmitter, Stainless Steel 316 and 2 x M20 entries
S3KNL2	ATEX/IECEx approved Series 3000 MkII toxic and oxygen transmitter, Aluminium LM25 and 2 x M20 entries
S3KNS2	ATEX/IECEx approved Series 3000 MkII toxic and oxygen transmitter, Stainless Steel 316 and 2 x M20 entries

11. Series 3000



11.2 Series 3000 MkIII Instrument

Series 3000 MkIII transmitter (Intrinsically Safe) is supplied complete with integral surface mounting lugs, 2 x 3/4"NPT or 2 x M20 conduit/ cable entries (certification dependent), 1 x suitable blanking plug, 1 x hex wrench set, weatherproof cap, operating magnet, calibration and test certificate and instruction manual. Gas specific Sensor and accessories to be ordered separately.

S3K MkIII Transmitter		
Part Number	Description	
S3KUL3	UL/cUL approved Series 3000 MkIII toxic and oxygen transmitter, Aluminium LM25 and 2 x 3/4"NPT entries	
S3KUS3	UL/cUL approved Series 3000 MkIII toxic and oxygen transmitter, Stainless Steel 316 and 2 x 3/4"NPT entries	
S3KAL3	ATEX/IECEx approved Series 3000 MkIII toxic and oxygen transmitter, Aluminium LM25 and 2 x M20 entries	
S3KAS3	ATEX/IECEx approved Series 3000 MkIII toxic and oxygen transmitter, Stainless Steel 316 and 2 x M20 entries	

11.3 Toxic and Oxygen (O2) Smart Sensor Cartridges

A wide range of toxic and oxygen (O2) Sensors, featuring patented Surecell[™] and Reflex technology, are available for use with the Series 3000 MkII and MkIII transmitters. Featuring a field replaceable Sensor, these Sensors are shipped pre-calibrated to the range listed below.

Smart Sensor Cart	Smart Sensor Cartridges	
Part Number	Description	
XNXXSO1SS	S3K Sensor oxygen (O2) 0-25% v/v	
XNXXSC1SS	S3K Sensor carbon monoxide (CO) 0-300 ppm (100 to 500 ppm, 100 ppm)	
XNXXSH1SS	S3K Sensor hydrogen sulfide (H2S) 0-15 ppm (10 to 50 ppm, 1 ppm)	
XNXXSH2SS	S3K Sensor hydrogen sulfide (H2S) 0-100 ppm (50 to 500 ppm, 10 ppm)	
XNXXSL1SS	S3K Sensor chlorine (Cl2) 0-5.0 ppm (5.0 to 20.0 ppm, 5.0 ppm)	
XNXXSS1SS	XNX Sensor sulfur dioxide (SO2) 0-15.0 ppm (5.0 to 20.0 ppm, 5.0 ppm)	
XNXXSX1SS	XNX Sensor chlorine (Cl2) dioxide 0-1.00 ppm	
XNXXSM1SS	XNX Sensor nitrogen monoxide (NO) 0-100 ppm	
XNXXSN1SS	XNX Sensor nitrogen dioxide (NO2) 0-11.0 ppm (5.0 to 50.0 ppm, 5.0 ppm)	
XNXXSG1SS	XNX Sensor hydrogen (H2) 0-1000 ppm	
XNXXSG2SS	XNX Sensor hydrogen (H2) 0-10,000 ppm	
XNXXSF1SS	XNX Sensor hydrogen fluoride (HF) 0-12.0 ppm	
XNXXSA1SS	XNX Sensor ammonia (NH3) 0-200 ppm (50 to 200 ppm, 50 ppm)	
XNXXSA2SS	XNX Sensor ammonia (NH3) 0-1000 ppm (200 to 1000 ppm, 50 ppm)	
XNXXSP1SS	XNX Sensor phosphine (PH3) 0-1.2 ppm	
XNXXSR1SS	XNX Sensor hydrogen chloride (HCl) 0-10 ppm (10 to 20 ppm, 1 ppm)	
S3KXSY1SS	S3K Sensor Hydrogen Cyanide 0-30.0ppm	
S3KXSE1SS	S3K Sensor Ethylene Oxide (EtO), 25.0ppm (user-selectable from 20.0ppm to 50.0ppm)	

11.4 Accessories

Accessories	
Part Number	Description
S3KCAL	Calibration cup (flow adaptor)
SPXCDCC	Collecting cone (for carbon monoxide (CO) and hydrogen (H2) only) must be used with SPXCDWP
S3KDMK	Duct Mounting Kit (for carbon monoxide (CO), hydrogen (H2) and hydrogen sulfides (H2S) only) (For flat surfaces only)
S3KRMK	Remote EC Mounting Kit (50 Feet)
S3KRMK45	Remote EC Mounting Kit (150 Feet)
S3KRMK75	Remote EC Mounting Kit (250 Feet)
SPXCDSDP	Sunshade and Deluge protection (XCD, XCD RFD, XCD RTD, S3K MKIII, S3K MKIII)

11. Series 3000



SGPTPRMTL1	Single channel zener barrier MTL7728+			
SGPTPRMTL2	2 channel zener barrier MTL7787+			
SGPTPRMTL3	Galvanic Isolator MTL 5042	Galvanic Isolator MTL 5042		
SGPTPRPFG1	Galvanic Isolator P&F KFD2-STC4-EX1	Galvanic Isolator P&F KFD2-STC4-EX1		
SGPTPRCBLG	Hummel cable gland HSK-K-Ex, blue, M20x1.5, elongated (15mm). Part number 1.291.2002.30, including locking nut Part			
	number 1.262.2001.50.			
XNXTOXKit	Calibration Kit:	Contains:		
	Tubing, flow adaptor, regulator,	998-100-004		
	carrying case	S3KCAL		
		ZCALREG1 (.3LPM) 998-100-003		
XNXTOXKIT2	Calibration Kit:	Gasses:		
	Tubing, flow adaptor, regulator,	HCN, Cl2, HF, NH3, and HCl		
	carrying case			

11.5 Spares (Miscellaneous)

2215 Spares (Wildeliancous)			
Spares (Miscella	Spares (Miscellaneous)		
Part Number	Description		
SPPPMADP	3/4 in. NPT to M20 adaptor		
SPPPMLHW	Large hex wrench (for Mounting bracket)		
SPXCDMAG	Magnet/screwdriver Note: S3KMAG is Obsolete. Replaced by SPXCDMAG		
SPPMMTBR	Mounting bracket (inc. fittings and hex wrench set)		
S3KDM	Mk II Replacement display module		
S3KTM	Mk II Replacement terminal module		
SPPPMSHW	Small hex wrench (for Sensor retaining screw)		
S3KWP	Weatherproof housing with bump test port		
S3KDM3	Mk III Replacement display module		
S3KTM3	Mk III Replacement terminal module		
S3KTMTS	Terminal screw and 'U' clamp (bag of 20)		
S3KM20P	M20 Blanking Plug		
S3KNPTP	3/4"NPT Blanking Plug		

11.7 S3K replacement Toxic and Oxygen (O2) Sensor Cells

Cell Exchange Kits	
Part Number	Description
S3KO1SS	Oxygen 0-25%v/v
S3KC1SS	Carbon Monoxide 0-300ppm (100 to 999ppm, 100ppm)
S3KH1SS	Hydrogen Sulfide 0-15ppm (10 to 50ppm, 1ppm)
S3KH2SS	Hydrogen Sulfide 0-100ppm (50 to 500ppm, 10ppm)
S3KL1SS	Chlorine 0-5.0ppm (5.0 to 20.0ppm, 5.0ppm)
S3KS1SS	Sulphur Dioxide 0-15.0ppm (5.0 to 20.0ppm, 5.0ppm)
S3KX1SS	Chlorine Dioxide 0-1.00ppm
S3KM1SS	Nitrogen Monoxide 0-100ppm
S3KN1SS	Nitrogen Dioxide 0-11.0ppm (5.0 to 50.0ppm, 5.0ppm)
S3KG1SS	Hydrogen 0-1000ppm
S3KG2SS	Hydrogen 0-10,000ppm
S3KZ1SS	Ozone (O3) 0-0.4 ppm
S3KR1SS	Hydrogen Chloride 0-10ppm (11.0 to 20.0ppm, 1.0ppm)
S3KA1SS	Ammonia 0-200ppm (50 to 200ppm, 50ppm)
S3KA2SS	Ammonia 0-1000ppm (200 to 1000ppm, 50ppm)
S3KP1SS	Phosphine (PH3), 1.2ppm (Fixed Scale)
S3KE1SS	Ethylene Oxide (ETO), 25.0ppm (20.0 to 50.0ppm)

12. Infrared Transmitters

Quick Reference Chart

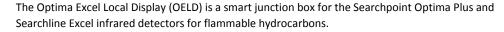
Product	Gases Detected	Display	Material	Communication
Optima Plus		Requires OELD or XNX	SS316	HART over 4-20 mA (w/XNX), Modbus (w/XNX)
Optima Plus with HART	See Below	Requires OELD or XNX	SS316	HART over 4-20 mA
Searchline Excel	See below	Requires OELD or XNX	SS316	HART over 4-20 mA (w/XNX), Modbus (w/XNX)
Searchline Excel XD		Requires OELD or XNX	SS316	HART over 4-20 mA (w/XNX), Modbus (w/XNX)

Gas Detected	Optima Plus	Searchline Excel	Searchline Excel XD
Non-specific Flammable			
Methane (CH4)	Х	Х	X
Ethane (C2H6)	X	Х	
Propane (C3H8)	Х	X	
Butane (C4H10)	Х	Х	
Pentane (C5H12)	Х	Х	
Ethylene (C2H4)	Х	Х	
Methanol (CH3OH)	Х	Х	
Ethanol (CH3CH2OH)	Х	Х	
Ethylene / Ethene (C2H4)	Х	Х	
Methane (CH4) 100% UEG	Х		
Ethane (C2H6) 100% UEG	Х		
Propane (C3H8) 100% UEG	Х		
Butane (C4H10) 100% UEG	Х		
Ethylene/Ethene (C2H4) 100% UEG	Х		
Special and Custom Calibrations (See data sheet)	Х		

OELD (Optima Excel Local Display)







The OELD includes an LCD screen for gas information, a "traffic light" indicator for at-a-glance detector status, and Bluetooth® connectivity for simplified, non-intrusive maintenance.

Simply pair the OELD with our intrinsically safe, ruggedized smartphone; then use the OELD smartphone app to interact with the gas detector up to 32 feet away.

For maximum flexibility, the gas detector can be mounted either directly or remotely to OELD to suit any situation.







13.1 Instrument

1311 11130 4111011	
OELD	
Part Number	Description
OELDBXXXXXADNUX	OELD Smart Junction Box, Display, C1D1 Z1, Aluminium, 3/4"NPT, cULus
OELDBXXXXXSDNUX	OELD Smart Junction Box, Display, C1D1 Z1, 316SST, 3/4"NPT, cULus
OELDBXXXXXADMAX	OELD Smart Junction Box, Display, Ex d, Aluminium, M25,ATEX/IECEx
OELDBXXXXXSDMAX	OELD Smart Junction Box, Display, Ex d, 316SST, M25, ATEX/IECEx
029-5402-000	Rugged Smart Hand-Held (North America)
029-5401-000	Zone 1 (IS) Rugged Smart Hand-Held (North America)

13.2 Ontions

Description
Wall Charger for Smart Hand-Held (North America)
USB Cable with Integral Protection Device (for IS Smart Hand-Held)
OELD/XNX Pole/Pipe Mount Kit
OELD/XNX Ceiling Mounting Kit
OELD/XNX Sunshade Kit
OELD General Service Kit includes O-rings and Fixings
OELD Terminal Block Set
OELD M25 Stopping Plug
OELD ¾"NPT Stopping Plug
OELD Electronics Module
OELD Plastic Locating Post for Electronics Module

14. Searchpoint Optima Plus Infrared Flammable Gas Detector





CH4, C2H6, C3H8, C4H10, C5H12, C2H4, CH3OH, CH3CH2OH, Special/Custom (see below)

Searchpoint Optima Plus is a hazardous area certified flammable infrared gas detector. Infrared gas detectors are ideal for applications in the harshest environments or where catalytic poisons may be routinely present. earchpoint Optima Plus has the fastest speed of response combined with the highest reliability and reduced routine maintenance. Two Versions are available: A hydrocarbon unit and an ethylene unit that can detect a wide range of hydrocarbon gases including solvents.

Range

• Hydrocarbon: 0-100% LEL • Ethylene: 0-100% LEL

Material

- 316 stainless steel Performance Approvals
- European: Combustible EN50054
- Canadian: CSA (methane only)
- USA: FM

Certifications

- UL / CSA: Class 1, Div 1, groups B, C, and D (-40°C to +65°C)
- IECEx: Ex d IIC tb IIIC T86°C (Tamb -40°C to +55°C) or T96°C (Tamb -40°C to +65°C) IP66/67
- ATEX: BAS99ATEX2259X
- II 2 GD Ex d IIC Gb Ex tb IIIC Db
- T96°C (Tamb -40°C to +65°C)
- T86°C (Tamb -40°C to +55°C)
- IP 66/67
- FM ANSI/ISA-14.13.01
- EN 60079-29-1 (BVS 03 ATEX G 016 X), CSA C22.2 152

Ordering information:

Select gas type and range plus appropriate accessories. Note: The target gas must be specified for all Optima units.

Searchpoint Optima Plus Incorporates:

- The proven strengths of the original Searchpoint OPTIMA design
- Experience gained from over 75,000 units installed worldwide
- The latest technology and techniques used to develop the successful Sieger open path gas Detector, the Searchline Excel
- Improved reliability

Why Infrared?

- Failsafe operation
- Fast speed of response
- Reduced routine maintenance
- Immune to catalytic poisons
- Long operating life
- Works in inert atmospheres

Why Searchpoint Optima?

- Can detect a wide range of hydrocarbon gases including solvents
- Increased reliability with no moving parts
- Increased stability from self compensating optics
- Immune to long term component drift.
- Remote functional gas test facility
- Certified for North American and European Hazardous areas

Why Searchpoint Optima Plus?

- \bullet Increased false alarm rejection with P2 SOFTWARE $^{\text{\tiny{TM}}}$
- Increased uptime with ontaminated optics warning
- Dynamic Heating Control ensures condensation free optics
- No undetected failures
- Improved diagnostics
- Integral event logging
- Reduced Power consumption
- Certified to many hazardous area classification schemes including UL, CSA, ATEX and more

14. Searchpoint Optima Plus Infrared Flammable Gas Detector



14.1 Hydrocarbon Instruments

Note: A compatible calibration must be ordered with every Optima Plus. Please refer to the next section for available calibrations.

Certified: UL/Inmetro	
Part Number	Description
2108N4100N	Optima Plus Gas Detector, hydrocarbon version, 4 to 20mA output, UL/INMETRO, 3/4" NPT thread spigot, electro
	polished 316SS, includes polyester mesh dust barrier, nylon weather protection housing and LNP Faradex
	deluge/sunshade
2108N4100H	Optima Plus Gas Detector, hydrocarbon version, HART® over 4 to 20mA output, UL/INMETRO, 3/4" NPT thread
	spigot, electro polished 316SS, includes polyester mesh dust barrier, nylon weather protection housing and LNP
	Faradex deluge/sunshade
2108N4110N	Optima Plus Gas Detector, hydrocarbon version, 4 to 20mA output, UL/INMETRO, 3/4" NPT thread spigot, electro
	polished 316SS, includes pre-fitted remote gassing cell, polyester mesh dust barrier, nylon weather protection
	housing and LNP Faradex deluge/sunshade
2108N4110H	Optima Plus Gas Detector, hydrocarbon version, HART® over 4 to 20mA output, UL/INMETRO certified, 3/4" NPT
	thread spigot, electro polished 316SS, includes pre-fitted remote gassing cell, polyester mesh dust barrier, nylon
	weather protection housing and LNP Faradex deluge/sunshade
2108N5100N	Optima Plus Gas Detector, hydrocarbon version for sampling systems, 4 to 20mA output, UL/INMETRO, 3/4" thread
	spigot, electro polished 316SS, includes black anodised aluminium flow housing
2108N5100H	Optima Plus Gas Detector, hydrocarbon version for sampling systems, HART® over 4 to 20mA output, UL/INMETRO,
	3/4" thread spigot, electro polished 316SS, includes black anodised aluminium flow housing
2108N5110N	Optima Plus Gas Detector, hydrocarbon version, 4 to 20mA output, UL/INMETRO, 3/4" thread spigot, electro
	polished 316SS, includes pre-fitted remote gassing cell, polyester mesh dust barrier, nylon weather housing and
	LNP Faradex deluge/solar sunshade. Only use with gas calibrations 0 to 100%v/v Methane (2108D3050), 0 to
	400,000ppm propane (2108D3100) or 0 to 600,000 ppm propane (2108D3102)
2108N5110H	Optima Plus Gas Detector, hydrocarbon version, HART® over 4 to 20mA output, UL/INMETRO, 3/4" thread spigot,
	electro polished 316SS, includes pre-fitted remote gassing cell, polyester mesh dust barrier, nylon weather housing
	and LNP Faradex deluge/solar sunshade. Only use with gas calibrations 0 to 100%v/v Methane (2108D3050), 0 to
	400,000ppm propane (2108D3100) or 0 to 600,000 ppm propane (2108D3102)
Certified: FM/CSA	
Part Number	Description
2108N4200N	Optima Plus Gas Detector, hydrocarbon version, 4 to 20mA output, FM/CSA, 3/4" NPT thread spigot, electro
	polished 316SS, includes polyester mesh dust barrier, nylon weather protection housing and LNP Faradex
	deluge/sunshade
2108N4200H	Optima Plus Gas Detector, hydrocarbon version, HART® over 4 to 20mA output, FM/CSA, 3/4" NPT thread spigot,
	electro polished 316SS, includes polyester mesh dust barrier, nylon weather protection housing and LNP Faradex
	deluge/sunshade
2108N4210N	Optima Plus Gas Detector, hydrocarbon version, 4 to 20mA output, FM/CSA, 3/4" NPT thread spigot, electro
	polished 316SS, includes pre-fitted remote gassing cell, polyester mesh dust barrier, nylon weather protection
	housing and LNP Faradex deluge/sunshade
108N4210H	Optima Plus Gas Detector, hydrocarbon version, HART® over 4 to 20mA output, FM/CSA certified, 3/4" NPT thread
	spigot, electro polished 316SS, includes pre-fitted remote gassing cell, polyester mesh dust barrier, nylon weather
	protection housing and LNP Faradex deluge/sunshade
2108N5200N	Optima Plus Gas Detector, hydrocarbon version for sampling systems, 4 to 20mA output, FM/CSA, 3/4" thread
	spigot, electro polished 316SS, includes black anodised aluminium flow housing
2108N5200H	Optima Plus Gas Detector, hydrocarbon version for sampling systems, HART® over 4 to 20mA output, FM/CSA, 3/4"

14. Searchpoint Optima Plus Infrared Flammable Gas Detector



Part Number	Description
2108N4000N	Optima Plus Gas Detector, hydrocarbon version, 4 to 20mA output, ATEX/IECEx, M25 thread spigot, electro polished
	316SS, includes polyester mesh dust barrier, nylon weather protection housing and LNP Faradex deluge/sunshade
2108N4000H	Optima Plus Gas Detector, hydrocarbon version, HART® over 4 to 20mA output, ATEX/IECEx, M25 thread spigot,
	electro polished 316SS, includes polyester mesh dust barrier, nylon weather protection housing and LNP Faradex
	deluge/sunshade
2108N4001N	Optima Plus Gas Detector, ethylene version, 4 to 20mA output, ATEX/IECEx, M25 thread spigot, electro polished
	316SS, includes polyester mesh dust barrier, nylon weather protection housing and LNP Faradex deluge/sunshade
2108N4001H	Optima Plus Gas Detector, ethylene version, HART® over 4 to 20mA output, ATEX/IECEx, M25 thread spigot, electro
	polished 316SS, includes polyester mesh dust barrier, nylon weather protection housing and LNP Faradex
	deluge/sunshade
2108N4010N	Optima Plus Gas Detector, hydrocarbon version, 4 to 20mA output, ATEX/IECEx, M25 thread spigot, electro polished
	316SS, includes pre-fitted remote gassing cell, polyester mesh dust barrier, nylon weather protection housing and
	LNP Faradex deluge/sunshade
2108N4010H	Optima Plus Gas Detector, hydrocarbon version, HART® over 4 to 20mA output, ATEX/IECEx, M25 thread spigot,
	electro polished 316SS, includes pre-fitted remote gassing cell, polyester mesh dust barrier, nylon weather
	protection housing and LNP Faradex deluge/sunshade
2108N4011N	Optima Plus Gas Detector, ethylene version, 4 to 20mA output, ATEX/IECEx, M25 thread spigot, electro polished
	316SS, includes pre-fitted remote gassing cell, polyester mesh dust barrier, nylon weather protection housing and
	LNP Faradex deluge/sunshade
2108N4011H	Optima Plus Gas Detector, ethylene version, HART® over 4 to 20mA output, ATEX/IECEx, M25 thread spigot, electro
	polished 316SS, includes pre-fitted remote gassing cell, polyester mesh dust barrier, nylon weather protection
	housing and LNP Faradex deluge/sunshade
2108N5000N	Optima Plus Gas Detector, hydrocarbon version for sampling systems, 4 to 20mA output, ATEX/IECEx, M25 thread
	spigot, electro polished 316SS, includes black anodised aluminium flow housing
2108N5000H	Optima Plus Gas Detector, hydrocarbon version for sampling systems, HART® over 4 to 20mA output, ATEX/IECEx,
	M25 thread spigot, electro polished 316SS, includes black anodised aluminium flow housing
2108N5001N	Optima Plus Gas Detector, ethylene version for sampling systems, 4 to 20mA output, ATEX/IECEx, M25 thread
	spigot, electro polished 316SS, includes black anodised aluminium flow housing
2108N5001H	Optima Plus Gas Detector, ethylene version for sampling systems, HART® over 4 to 20mA output, ATEX/IECEx, M25
	thread spigot, electro polished 316SS, includes black anodised aluminium flow housing
2108N5010N	Optima Plus Gas Detector, hydrocarbon version, 4 to 20mA output, ATEX/IECEx, M25 thread spigot, electro polished
	316SS, includes pre-fitted remote gassing cell, polyester mesh dust barrier, nylon weather housing and LNP Faradex
	deluge/solar sunshade. Only use with gas calibrations 0 to 100%v/v Methane (2108D3050), 0 to 400,000ppm
	propane (2108D3100) or 0 to 600,000 ppm propane (2108D3102)
2108N5010H	Optima Plus Gas Detector, hydrocarbon version, HART® over 4 to 20mA output, ATEX/IECEx, M25 thread spigot,
	electro polished 316SS, includes pre-fitted remote gassing cell, polyester mesh dust barrier, nylon weather housing
	and LNP Faradex deluge/solar sunshade. Only use with gas calibrations 0 to 100%v/v Methane (2108D3050), 0 to
	400,000ppm propane (2108D3100) or 0 to 600,000 ppm propane (2108D3102)

14. Searchpoint Optima Plus Infrared Flammable Gas Detector



14.2 Ethylene Instruments

Note: A compatible calibration must be ordered with every Optima Plus. Please refer to the next section for available calibrations.

Ethylene Optima Instruments: UL/INMETRO certified		
Part Number	Description	
2108N4101N	Ethylene calibration, with dust barrier, weather housing, deluge/heat shade, UL/INMETRO	
2108N4101H	Ethylene calibration, with dust barrier, weather housing, deluge/heat shade, HART® output, UL/INMETRO	
2108N4111N Ethylene calibration with dust barrier, weather housing, deluge/heat shade, including remote gassing		
	UL/INMETRO	
2108N4111H	Ethylene calibration with dust barrier, weather housing, deluge/heat shade, HART® output, including remote	
	gassing cell, UL/INMETRO	
2108N5101N	Ethylene calibration, for use in remote sampling systems complete with flow housing, UL/INMETRO	
2108N5101H	Ethylene calibration, for use in remote sampling systems complete with flow housing, HART® output, UL/INMETRO	

Ethylene Optima Instruments: ATEX/SAA certified			
Part Number	Description		
2108N4001N	Ethylene calibration, with dust barrier, weather housing, deluge/heat shade, ATEX		
2108N4001H	Ethylene calibration, with dust barrier, weather housing, deluge/heat shade, HART® output, ATEX		
2108N4011N	Ethylene calibration with dust barrier, weather housing, deluge/heat shade, including remote gassing cell, ATEX		
2108N4011H	Ethylene calibration with dust barrier, weather housing, deluge/heat shade, HART® output, including remote		
	gassing cell, ATEX		
2108N5001N	Ethylene calibration, for use in remote sampling systems complete with flow housing, ATEX		
2108N5001H	Ethylene calibration, for use in remote sampling systems complete with flow housing, HART® output, ATEX		

14.3 Optima Sampling System Options

Optima Sampling System Options		
Part Number	Description	
SVIP3722-1P	Class I - Div. 1, air aspirated, extractive sampling system, single channel; (both require separate purchase of XNX	
	and Optima. C1D1 requires IS barrier for flow Sensor (supplied by others)	
SVIP3722-2P	Class I - Div. 1, air aspirated, extractive sampling system, two channel; (both require separate purchase of XNX and	
	Optima. C1D1 requires IS barrier for flow Sensor (supplied by others)	

Note: An application datasheet (ADS) is required when ordering the above extractive systems.

14.4 Remote and Duct Mounting Optima options

Remote and Duct Mounting Optima options				
Part Number	Description			
2441-0022	6 wire junction box (UL certified)			
1283K2240	Universal duct mounting kit - UL/CSA Version - Right angle junction box not included			
1283A2266	Right angle junction box for use with 1283K2240			
04200-A-1015	Optima duct mounting Kit - use only with ATEX and SAA Versions			

14. Searchpoint Optima Plus Infrared Flammable Gas Detector



14.5 Junction Box Interfaces

OELD / DX100	
Part Number	Description
OELDBXXXXXADNUX	OELD Smart Junction Box, Display, C1D1 Z1, Aluminium, 3/4"NPT, cULus
OELDBXXXXXSDNUX	OELD Smart Junction Box, Display, C1D1 Z1, 316SST, 3/4"NPT, cULus
2104B2381	DX100i XP junction box UL with IS barrier
2104B2382	DX100M XP junction box UL with Modbus capability

14.6 Accessories

Accessories							
Part Number	Description						
94000-A-1006	XNX Sunshade w/ C	XNX Sunshade w/ Optima cut out					
2108B0259	Dust barrier	Dust barrier					
2108B0276	Weather housing						
2108B0280	Storm baffle						
2108B0282	Optima Plus flow ho	ousing					
2108D0258	Optima Plus gassing	g cover					
2108B0272	Optima Plus calibra	tion cap					
2108D0275	Optima Plus deluge	/ heat shade					
04230-A-1001	Hand held interroga	ator ATEX certified (4V0 software) for Optima, Optim	a Plus and Excel				
2104B2351	Hand held interroga	ator UL certified (4V0 software) for Optima, Optima I	Plus and Excel				
2104B2354	Hand held interroga	ator CSA certified (4V0 software) for Optima, Optima	Plus and Excel				
2108B1455	Hand held EEPROM	upgrade (4V0)					
04230-A-1025	SHC protection dev	ice module and lead					
2104B6250	SHC calibrator conn	ector system 10 m					
00780-A-0100	Junction box-Barted	DE1155 with continuity plate 1 x 25 mm-3 x 20 mm	entries (ATEX certified)				
04200-A-1040	Optima junction bo	Optima junction box adaptor plate					
04200-N-9002	Fit 2 Cable glands to	Optima DVC100					
2441-0001	Stainless steel tag, 3	3.0 in. x 0.5 in. , #10(m5) screw					
2992-0038	Adapter M25 femal	e to 3/4 in. NPT male stainless steel					
157-001-075	Adapter M20 male	to 3/4 in. NPT female stainless steel					
2108B0701	Optima Plus curren	t source to sink					
972-080-009	Nut retng Optima P	lus weather baffle					
2108D0271	Optima Plus gassing	g pipe					
402-060-291	Cover 5.26 x 19.5 m	m black vinyl					
SVIP3699	Optima stainless ga	ssing tip kit, contains 2 tips, 2 o-rings, and 2 caps					
OPTIMARGCCALKit	Product: RGC	Calibration Kit:	Contains:				
		Tubing, regulator (Gassing cover not required with RGC)	998-100-004, ZCALREG1 (.3LPM)				
OPTIMACALKit	Product: Non-RGC	Calibration Kit:	Contains:				
		Tubing, gas cover, regulator	998-100-004, 2108D0258, 998-100-002				
		3, 5 , 5 -	(2LPM), With GAS CELL				

14. Searchpoint Optima Plus Infrared Flammable Gas Detector



14.7 Additional Gasses or Gas Ranges That Can Be Detected Using Optima Plus

		<u></u>	
	Optima Plus Gas Reference		Optima Plus Gas
Target Gas	Calibration	Target Gas	Reference Calibration
152A Difuoroethane (C2H4F2)	Band C	Difluoroethane (C2H4F2)	Band B
Aeron A-31 isobutane (C4H10)	Butane (C4H10)	Dimethyl ether (C2H6O)	Butane (C4H10)
Aeron A-46 LPG (C3H8)	Butane (C4H10)	Ethylene dichloride (EDC) (C2H4Cl2)	Band D
Allyl alcohol (C3H6O)	Band C	Ethylene oxide (C2H4O)	Band C
Amyl alcohol (C5H11OH)	Band C	IsoButylene (C4H8)	Band B
Benzene (C6H6)	Ethylene (C2H4) 0-100% LEL	Iso-hexane (C6H14)	Hexane (C6H14) 0-100 LEL
Butadiene dimer (C8H12)	Ethylene (C2H4) 0-100% (leak	Methyl ethyl ketone (C4H8O)	Butanone (C4H8O) 0-100% LEL
	detection only)		
Butadiene-1,2 (C4H6)	Ethylene (C2H4) 0-100% (leak	Polypropylene ((C3H6)n)	Propylene ((C3H6)n) 0-100% LEL
	detection only)		
Butene (C4H8)	Band C	Styrene (C8H8)	Ethylene (C2H4) 0-100% LEL
			(leak detection only)
Cyclopentane (C5H10)	Band C	Tetrahydrofuran (C4H8O)	Band B
Dichloro-ethane (C2H4Cl2)	Band D	Turpentine (C10H16)	Band B
AVTUR JP8	Band B	Xylene (C8H10)	Band C

14.8 Gasses Unable To Be Detected Using Optima Plus

2410 dasses onable to be beteted osing optima thas							
Gas	Gas	Gas	Gas				
1,3 Butadiene (C4H6) 100% LEL	Dimethyl disulphide (CH3SSCH3)	Methyl chloride (CH3Cl)	Propane (C3H8) 25% LEL				
Acetic acid (C2H4O2)	Enflurane (C3H2ClF5O)	Methyl flouride (CH3F)	Propane (C3H8) 5% v/v				
Acetonitrile (C2H3N)	Ethane (C2H6) 10% v/v	Methyl mercaptan (CH4S)	Pyridine (C5H5N)				
Alphamethylstyrene (AMS, C9H10)	Ethanol (C2H6O) 5,000 ppm	Methylchloroformate (C2H3ClO2)	Sevoflurane ethyl-ether (C4H3F7O)				
Aniline (C6H5NH2)	Ethylchloroformate (C3H5ClO2)	Methylene chloride (CH2Cl2)	Sulfuric acid (H2SO4)				
Bromopropane (C3H7Br)	Ethylene (C2H4) 15,000 ppm	Morpholine (C4H9NO)	Toluene (C7H8) 10,000 ppm				
Butyl isocyanate (C5H9NO)	Halothane (C2HBrClF3)	N-butane (C4H10) 5% v/v	Tri-chloro-ethylene (C2HCl3)				
Chloroform (CHCl3)	Hexane (C6H14) 2,000 ppm	Pentane (C5H12) 3,000 ppm	VCM (C2H3CI)				
Desflurane (C3H2F6O)	I-butane (C4H10) 10% v/v	Phenol (C6H5OH)	Vinylidene				
Dichloromethane (CH2Cl2)	Isoflurane ether (C3H2CIF5O)	Propan (C3H8O) 100% UEG					
Dicyclopentadiene (C10H12)	Methane (CH4) 40% LEL	Propane (C3H8) 2,000 ppm					



15.1 Calibrations for Hydrocarbon Searchpoint Optima Plus Instruments

One of the following calibrations must accompany each order for Searchpoint Optima Plus.

as Curves (UL/CSA/INMETRO): Calibrated using EN50054 LEL Values							
				3rd Party			
	Table Name	Full Scale	LEL (%V/V)	Approved	Part Number		
	Methane	100%LEL	5	Υ	2108D3001		
Standard	Ethane	100%LEL	3		2108D3002		
Gases	Propane	100%LEL	2	Υ	2108D3004		
	Butane	100%LEL	1.5	Υ	2108D3005		
	Propene	100%LEL	2		2108D3006		
	Acetone	100%LEL	2.15		2108D3012		
	Butan-1-ol	100%LEL	1.4		2108D3018		
	Butyl acetate	100%LEL	1.2		2108D3020		
	Butanone	100%LEL	1.8		2108D3023		
	Cyclohexane	100%LEL	1.2		2108D3024		
	Cyclohexanone	100%LEL	1.3		2108D3026		
	Ethanol	100%LEL	3.3		2108D3028		
	Ethyl acetate	100%LEL	2.1		2108D3030		
Special	Heptane	100%LEL	1.1		2108D3032		
Gases	Hexane	100%LEL	1.2		2108D3034		
	Methanol	100%LEL	5.5		2108D3040		
	Toluene	100%LEL	1.2		2108D3042		
	o-Xylene	100%LEL	1		2108D3044		
	Diethyl ether	100%LEL	1.7		2108D3048		
	p-Xylene	100%LEL	1		2108D3054		
	Pentanes	100%LEL	1.4		2108D3056		
	Dimethyl ether	100%LEL	3		2108D3059		
	N,N-Dimethyl formamide (DMF)	100%LEL	2.2		2108D3064		
	Propane	100%LEL	2	Υ	2108D3073		



	ATEX/SAA): Calibrated using			3rd Party	
	Table Name	Full Scale	LEL (%V/V)	•	Part Number
				Approved	
Standard	Methane	100%LEL	4.4	Υ	2108D3170
Gases	Propane	100%LEL	1.7	Υ	2108D3172
Gases	Butane	100%LEL	1.4	Υ	2108D3173
	Acetone	100%LEL	2.5	Υ	2108D3013
	Butyl acetate	100%LEL	1.2	Υ	2108D3021
	Ethanol	100%LEL	3.1	Υ	2108D3029
	Hexane	100%LEL	1	Υ	2108D3035
	Propan-2-ol	100%LEL	2	Υ	2108D3037
Special	o-Xylene	100%LEL	1	Υ	2108D3045
Gases	Octane	100%LEL	0.8		2108D3062
	Isobutane	100%LEL	1.3		2108D3070
	Chloroethane	100%LEL	3.6		2108D3084
	1,2-Dichloroethane	100%LEL	6.2		2108D3090
	Dimethyl ether	100%LEL	2.7	Υ	2108D3098
	Propene	100%l FI	2	Υ	2108D3174

				3rd Party	
	Table Name	Full Scale	LEL (%V/V)	Approved	Part Number
Standard					
Gases	Ethane	100%LEL	2.5		2108D3171
	Butan-1-ol	100%LEL	1.7	Υ	2108D3019
	Butanone	100%LEL	1.8	Υ	2108D3023
	Cyclohexane	100%LEL	1.2		2108D3025
	Cyclohexanone	100%LEL	1	Υ	2108D3027
	Ethyl acetate	100%LEL	2.2	Υ	2108D3031
	Heptane	100%LEL	1.1	Υ	2108D3033
Special	Propyl acetate	100%LEL	1.7		2108D3039
Gases	Methanol	100%LEL	5.5	Υ	2108D3041
	Toluene	100%LEL	1.1	Υ	2108D3043
	Diethyl ether	100%LEL	1.7		2108D3049
	p-Xylene	100%LEL	1	Υ	2108D3055
	Pentanes	100%LEL	1.4		2108D3056
	i-Propyl Acetate	100%LEL	1.8		2108D3078
	Propan-1-ol	100%LFI	2.2		2108D3085



Additional Ranges Offered

Additional I	Ranges Offered				
				3rd Party	
	Table Name	Full Scale	LEL (%V/V)	Approved	Part Number
	Hexamethy disiloxane (HMDS)	100%LEL	1.3		2108D3017
	Propan-2-ol	100%LEL	2		2108D3036
	Propyl acetate	100%LEL	1.8		2108D3038
	Benzin 60/95	100%LEL	1	Υ	2108D3047
	Methane V/V	100%V/V	NA		2108D3050
	Decamethy tetrasiloxane (DCMTS)	100%LEL	0.9		2108D3060
	Octane	100%LEL	1		2108D3061
	Octamethyl tetrasiloxane (OMTS)	100%LEL	0.9		2108D3063
	Methyl isobutyl Ketone (MIBK)	100%LEL	1.2		2108D3068
	Isobutane	100%LEL	1.8		2108D3069
	1-Pentene	100%LEL	1.4		2108D3077
	1-Octene	100%LEL	0.7		2108D3081
	1-Hexene	100%LEL	1.2		2108D3083
	Methane 100k	100k ppm	NA		2108D3087
Special	Ethylene 100k	100k ppm	NA		2108D3088
Gases	Propane 100k	100k ppm	NA		2108D3089
Gases	Propene 50k	50k ppm	NA		2108D3092
	3-Ethoxy-1-Propanol	100%LEL	1.3		2108D3094
	Propane 10k	10k ppm	NA	Υ	2108D3096
	Propane 400k	400k ppm	NA		2108D3100
	Propylene Glycol Methyl Ether	100%LEL	1.3		2108D3101
	Acetate (PGMEA)				
	Propane 600k	600k ppm	NA		2108D3102
	Propane 20k	20k ppm	NA		2108D3105
	Butane 18k	18k ppm	NA		2108D3107
	Methy I amyl Ketone (MIAK)	100%LEL	1.3		2108D3108
	Band A	100%LEL	NA		2108D3150
	Band B	100%LEL	NA		2108D3151
	Band C	100%LEL	NA		2108D3152
	Band D	100%LEL	NA		2108D3153
	Propane 5k	5k ppm	NA	Υ	2108D3175



15.2 Calibrations for Ethylene Searchpoint Optima Plus Instruments

Gas Curves (Gas Curves (UL/CSA/INMETRO): Calibrated using EN50054 LEL Values						
				3rd Party			
	Table Name	Full Scale	LEL (%V/V)	Approved	Part Number		
Standard	Ethylene	100%LEL	2.7	Υ	2108D3225		
Gases							
Special	Benzene	100%LEL	1.2		2108D3227		
Gases	Styrene	100%LEL	1.1		2108D3228		
Gases	Buta-1,3-diene	100%LEL	1.4		2108D3229		

Gas Curves (Gas Curves (ATEX/SAA): Calibrated using EN60079-20-1:2010 LEL Values						
	3rd Party						
	Table Name	Full Scale	LEL (%V/V)	Approved	Part Number		
Standard	Ethylene	100%LEL	2.3	Υ	2108D3240		
Gases							
Special	Benzene	100%LEL	1.2		2108D3227		
Gases	Buta-1,3-diene	100%LEL	1.4		2108D3229		

Gas Curves (ATEX/SAA): Calibrated using EN61779 LEL Values						
				3rd Party		
	Table Name	Full Scale	LEL (%V/V)	Approved	Part Number	
Standard	Styrene	100%LEL	1.1		2108D3228	
Gases						





C3H8, C4H10, C5H12, CH3CH2OH, CH3OH, CH4

The Searchline Excel is the world's best selling infrared open path gas detector with over 6,000 units installed in challenging applications throughout industry. From the Arctic Circle to the Gulf of Mexico, customers have repeatedly selected the Searchline Excel as their preferred choice.

Choose from 3 Versions

Short Range: 16ft-131ft (5-40 m)
Medium Range: 131ft-393ft (40-120 m)
Long Range: 393ft-656ft (120-200 m)

Hazardous Area Certifications include

European: ATEXNorth American: ULCanadian: CSA

Performance Approvals include

- Canada CSA
- USA FM

Certifications

- FM Class 1 Div 1 Groups B, C + D UL Class 1 Div 1 Groups B, C + D and Class 1 Zone 1 AEx d IIB + H2 (Tamb -40°C to +65°C) CSA Class 1 Div 1 Groups B, C + D, T5 and Exd IIC (Tamb -40°C to +65°C)
- EExd IIC T5(-40°C to +65°C) EExd IIC T6(-40°C to +40°C) II 2G
- IP Rating IP66 and IP67

Material

316 Stainless Steel

Excellent-Performing Technology

- Fast speed of response provides earliest
- warning of gas release
- High sensitivity allows low alarm set points
- Alignment free design makes installation simple
- Duct flex and vibration tolerance keeps the system online
- Integral functional gas test facility allows for simple system check
- Contamination resistant optics reduce the need for unscheduled maintenance
- Not affected by interference from water vapor
- Immune to catalytic poisons
- Works in inert atmospheres

Why open path gas detection?

Open path detectors complement the use of individual point Detectors and offer many

significant benefits including:

- Wider area coverage most likely to pick up any leak
- Very high speed of response
- No unrevealed failure modes no possibility of blocked gas path to detector
- Detector location not as critical
- Indicates size of hazard

Full Range of Accessories

- Deluge shield / sunshade
- True alignment system
- Gassing cell
- Hand-held interrogator
- Optical gas test filters
- SHC protection device



16.1 UL/CSA Certified

All Excels P/N 02104-N-XXXX come with: Transmitter, Receiver, Mounting Bracket & Hardware for both, Mounting plate for both, UL version includes 1 sunshield (ATEX version has NO sunshield included).

Searchline Excel Short Range 5 m – 40 m (15 ft 130 ft.), UL/CSA Certified; 1 Sunshield included	
Part Number	Description
02104-N-5010	Short range TX/RX 5 m to 40 m UL current source
02104-N-5040	Short range TX/RX 5 m to 40 m UL current sink
02104-N-6010	Short range TX/RX 5 m to 40 m CSA current source
02104-N-6040	Short range TX/RX 5 m to 40 m CSA current sink

Searchline Excel Medium Range 40 m – 120 m (130 ft 390 ft.), UL/CSA Certified; 1 Sunshield included	
Part Number	Description
02104-N-5020	Medium range TX/RX 40 m to 120 m UL current source
02104-N-5050	Medium range TX/RX 40 m to 120 m UL current sink
02104-N-6020	Medium range TX/RX 40 m to 120 m CSA current source
02104-N-6050	Medium range TX/RX 40 m to 120 m CSA current sink

Searchline Excel Long Range 120 m – 200 m (390 ft 650 ft.), UL/CSA Certified; 1 Sunshield included	
Part Number	Description
02104-N-5030	Long range TX/RX 120 m to 200 m UL current source
02104-N-5060	Long range TX/RX 120 m to 200 m UL current sink
02104-N-6030	Long range TX/RX 120 m to 200 m CSA current source
02104-N-6060	Long range TX/RX 120 m to 200 m CSA current sink

Installation Hardware Kit (UL/CSA Certified)	
Part Number	Description
2992K0088	Excel installation hardware Kit (SEE PAGE 54 FOR DETAILS)

16.2 Receiver Junction Box (UL/CSA Certified) for Termination/Communication to Excel

Receiver Junction Box (UL/CSA Certified) for Termination/Communication to Excel	
Part Number	Description
OELDBXXXXXADNUX	OELD Smart Junction Box, Display, C1D1 Z1, Aluminium, 3/4"NPT, cULus
OELDBXXXXXSDNUX	OELD Smart Junction Box, Display, C1D1 Z1, 316SST, 3/4"NPT, cULus
XNX-UTAI-NNNNN	XNX transmitter, HART® over 4-20 mA output, UL/CSA approved, 5 x 3/4 in. NPT entries, painted LM25, configured
	for Searchline Excel.
XNX-UTAI-NHNNN	XNX transmitter, HART® over 4-20 mA output, UL/CSA approved, 5 x 3/4 in. NPT entries, painted LM25, with local
	HART® interface port, configured for Searchline Excel.
XNX-UTAI-MNNNN	XNX transmitter, HART® over 4-20 mA output, UL/CSA approved, 5 x 3/4 in. NPT entries, painted LM25, with
	Modbus®output, configured for Searchline Excel.
XNX-UTAI-FNNNN	XNX transmitter, Foundation Fieldbus output, UL/CSA approved, 5 x 3/4 in. NPT entries, painted LM25, configured for
	Searchline Excel.
XNX-UTSI-NNNNN	XNX transmitter, HART® over 4-20 mA output, UL/CSA approved, 5 x 3/4 in. NPT entries, painted 316 stainless steel,
	configured for Searchline Excel.
XNX-UTSI-NHNNN	XNX transmitter, HART® over 4-20 mA output, UL/CSA approved, 5 x 3/4 in. NPT entries, painted 316 stainless steel,
	with local HART® interface port, configured for Searchline Excel.
XNX-UTSI-MNNNN	XNX transmitter, HART® over 4-20 mA output, UL/CSA approved, 5 x 3/4 in. NPT entries, painted 316 stainless steel,
	with Modbus® output, configured for Searchline Excel.
XNX-UTSI-FNNNN	XNX transmitter, Foundation Fieldbus output, UL/CSA approved, 5 x 3/4 in. NPT entries, painted 316 stainless steel,
	configured for Searchline Excel.



16.3 INMETRO Certified

Searchline Excel Short Range 5 m – 40 m (15 ft 130 ft.), INMETRO Certified	
Part Number	Description
02104-N-7012	Short range TX/RX 5 m to 40 m INMETRO current source
02104-N-7042	Short range TX/RX 5 m to 40 m INMETRO current sink

Searchline Excel Medium Range 40 m – 120 m (130 ft 390 ft.), INMETRO Certified	
Part Number	Description
02104-N-7022	Medium range TX/RX 40 m to 120 m INMETRO current source
02104-N-7052	Medium range TX/RX 40 m to 120 m INMETRO current sink

Searchline Excel Long Range 120 m – 200 m (390 ft 650 ft.), INMETRO Certified	
Part Number	Description
02104-N-7032	Long range TX/RX 120 m to 200 m INMETRO current source
02104-N-7062	Long range TX/RX 120 m to 200 m INMETRO current sink

16.4 ATEX Searchline Excel Kits; Includes Transmitter, Receiver, And Installation Hardware

Note: XNX must be ordered separately

Searchline Excel Short Range 5 m – 40 m (15 ft 130 ft.), ATEX Certified	
Part Number	Description
02104-N-XSAAUS	Short range system 5 m to 40 m ATEX complete TXR and RXR system, installation hardware Kit, SS316 Mounting
	plates and brackets, 1 junction box current source

Searchline Excel Medium Range 40 m – 120 m (130 ft 390 ft.), ATEX Certified	
Part Number	Description
02104-N-XMAAUS	Medium range system 40 m to 120 m ATEX complete TXR and RXR system, installation hardware Kit, SS316 Mounting plates and brackets, 1 junction box current source

Searchline Excel Long Range 120 m – 200 m (390 ft 650 ft.), ATEX Certified	
Part Number	Description
02104-N-XLAAUS	Long range system 120 m to 200 m ATEX complete TXR and RXR system, installation hardware Kit, SS316 Mounting
	plates and brackets, 1 junction box current source

16.5 Excel Calibration Gas Table

Table 1: Excel calibration gas table. Additional costs for non-standard calibrations. A calibration must be ordered with every Excel. See table below for calibrations.

Gas Calibrations	
Part Number	Description
2104D5026	Methane (CH4) / LEL.m (standard calibration)
2104D5002	Ethane (C2H6) / LEL.m
2104D5003	Propane (C3H8) / LEL.m
2104D5004	Butane (C4H10) / LEL.m
2104D5005	Pentane (C5H12) / LEL.m
2104D5021	Ethylene (C2H4) / LEL.m (standard calibration)
2104D5022	Propylene (C3H6) / LEL.m
2104D5023	Butadiene (C4H6) / LEL.m



16.6 Alignment Kits For Use With XNX™ Universal Transmitter & OELD

Alignment Kits For Use With XNX™ Universal Transmitter		
Part Number Description		
02104-N-4006X	Short range Excel and XNX alignment and conformity Kit including telescope, carry case and test filters (no SHC1)	
02104-N-4007X	Long/medium range Excel and XNX alignment and conformity Kit including telescope, carry case and test filters (no SHC1)	

16.7 Searchline Excel Alignment Kits For Use With DX100

Searchline Excel Alignment Kits For Use With DX100			
Part Number	Description		
02104-N-4006	Short range alignment and conformity kit including handheld interrogator,		
	telescope, carry case and test filters for ATEX approved systems		
02104-N-4007	Long and medium range alignment and conformity kit including handheld		
	interrogator, telescope, carry case and test filters for ATEX approved systems		
02104-N-5006	Short range alignment and conformity kit including handheld interrogator,		
	telescope, carry case and test filters for UL approved systems		
02104-N-5007	Long and medium range alignment and conformity kit including handheld		
	interrogator, telescope, carry case and test filters for UL approved systems		
02104-N-6006	Short range alignment and conformity kit including handheld interrogator,		
	telescope, carry case and test filters for CSA approved systems		
02104-N-6007	Long and medium range alignment and conformity kit including handheld		
	interrogator, telescope, carry case and test filters for CSA approved systems		

16.8 Accessories

Handheld Interrogator and accessories		
Part Number	Description	
04230-A-1001	Hand Held Interrogator ATEX Certified (4V0 software) for Optima, Optima Plus and	
	Excel	
2104B2351	Hand Held Interrogator UL Certified (4V0 software) for Optima, Optima Plus and	
	Excel	
2104B2354	Hand Held Interrogator CSA Certified (4V1 software) for Optima, Optima Plus and	
	Excel	
2108B1455	Hand Held EEPROM upgrade (4V0)	
04230-A-1025	SHC protection device module and lead	
2104B6250	SHC Calibrator Connector System 10m	
2104B6251	SHC calibrator connector system 6 m	
2104B6252	SHC calibrator connector system 3 m	

DX Interfaces	
Part Number	Description
2104B2382	DX100M XP Termination Unit UL with Modbus capability



Installation Accessories		
Part Number	Description	
2104D0295	Sun/heat shade (deluge cover)	
2441-0022	UL/CSA aluminum 6 wire junction box assembly	
2992A0071	Conduit assembly for Excel UL certified	
02104-N-9870	Upgrade to stainless steel glands	

Gas Test Equipment	
Part Number	Description
2104N2999	Excel test filters Kit type B, C, D, E, F, G, H and manual
2104B2326	Gassing Cell

16.9 Spares

Spares		
Part Number	Description	
2104B2391	Short Range Telescope (bayonet fitting)	
2104B2322	Medium / Long Range Telescope (callipers)	
210-190-003	Short range alignment case	
2104B0300	Searchline Excel Isolation Kit Short Range	
2104B0310	Searchline Excel Isolation Kit Medium/Long Range	
2104B2301	Mounting Bracket Short Range & Insul. Kit	
2104B2302	Mounting Bracket Long Range & Insul. Kit	
2104D0237	Mounting Plate	

Spare Transmitters	
Description	
Short Range Transmitter UL	
Medium Range Transmitter UL	
Long Range Transmitter UL	
Short Range Receiver UL Source	
Short Range Receiver UL Sink	
Medium Range Receiver UL Source	
Medium Range Receiver UL Sink	
Long Range Receiver UL Source	
Long Range Receiver UL Sink	
Short Range Transmitter CSA	
Medium Range Transmitter CSA	
Long Range Transmitter CSA	
Short Range Receiver CSA Source	
Short Range Receiver CSA Sink	
Medium Range Receiver CSA Source	
Medium Range Receiver CSA Sink	
Long Range Receiver CSA Source	
Long Range Receiver CSA Sink	



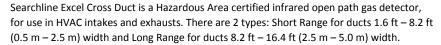
2104B2071	Short Range Transmitter ATEX
2104B2081	Medium Range Transmitter ATEX
2104B2091	Long Range Transmitter ATEX
2104B2111	Short Range Receiver ATEX Source
2104B2112	Short Range Receiver ATEX Sink
2104B2131	Medium Range Receiver ATEX Source
2104B2132	Medium Range Receiver ATEX Sink
2104B2151	Long Range Receiver ATEX Source
2104B2152	Long Range Receiver ATEX Sink
2104B3401	Short Range Transmitter Inmetro
2104B3411	Medium Range Transmitter Inmetro
2104B3421	Long Range Transmitter Inmetro
2104B3501	Short Range Receiver Inmetro Source
2104B3502	Short Range Receiver Inmetro Sink
2104B3511	Medium Range Receiver Inmetro Source
2104B3512	Medium Range Receiver Inmetro Sink
2104B3521	Long Range Receiver Inmetro Source
2104B3522	Long Range Receiver Inmetro Sink

Excel Installation Hardware Kit: see page 50				
Part Number	Description			
2992K0088	Excel Installation Hardware Kit			
		Qty.	Unit	
2430-0021	Assy nema 4x j box 3 terminal	1	EA	
0900-0071	Bolt m10 x 25 x 1.5 mm hex head ss	2	EA	
106092-L9	Washer lock split m10 ss	2	EA	
2992A0071	Flexible coupling assembly	2	EA	
2440G0006	Excel kit w/dx100 or XNX assy spec	1	EA	
200180	Box carton no.189 13x11x5 high	1	EA	
200008	Bag poly zip 6 x 9 .002	1	EA	
200009	Write-on zip poly bag 3x5 2 mil	1	EA	

17. Searchline Excel Cross-Duct Infrared Flammable Gas Detector



СН4



Hazardous area approvals include European (ATEX) and North Amercian (UL). Receiver output is 3 wire 4-20 mA selectable sink or source.

Note: Methane (CH4) calibration only.

It is important to ensure the suitability of an application for Searchline Excel Cross-Duct before ordering. Target gas can be Methane or gas mixtures where methane is the main constituent

(>70%) and the balance is C2 - C6 hydrocarbons. Alarm levels should be set at 20% LEL for the short range unit and 10% for the long range unit. The installation must be made where it is protected from dirt and condensation. Regular routine maintenance should include cleaning the reflector tiles, re-zeroing and functional test using the test filters. If in any doubt about suitability for an application, contact Honeywell Analytics Engineering Team for further guidance. Hazardous area approvals include European (ATEX) and North American (UL). Receiver output is 3 wire 4-20mA selectable sink or source.



Certifications

- UL: Class 1 Groups B, C, D and Class 1 Zone 1 AEx d IIB + Hydrogen (Amb -40°C to +65°C)
- CSA: Class 1 Div 1 groups B, C, D, T5 and Exd IIC T5 (Amb -40°C to +65°C)
- FM: Class 1 Div 1 groups B, C, D & T5 (Tamb -40 to +65°C)
- ATEX & IECEx:

II 2G, Ex d IIC T5 (Tamb -40°C to +65°C)

II 2G, Ex d IIC T6 (Tamb -40°C to +40°C)

- Independently assessed to IEC61508
- IP Rating IP66 and IP67

17.1 Instrument

Part Number	Description
2104N1010	Excel cross-duct gas detection system, short range (0.5 to 2.5m), 4 to 20mA (source) and Modbus outputs, UL, fully wired
	with flexible conduit, electro polished 316SS. Includes detection block, single tile heated reflector panel and 316SS
	mounting plate. Methane calibration only. Note Duct Mounting Kit [2440K0004] must be ordered seperately.
2104N4214	Excel cross-duct gas detection system, short range (0.5 to 2.5m), 4 to 20mA (source) and Modbus outputs, ATEX/IECEx, fully
	wired with flexible conduit, electro polished 316SS. Includes detection block, single tile heated reflector panel, Ex e junciton
	box with M20/M25 cable entries and 316SS mounting plate. Methane calibration only.

Excel Cross-Duct Long Range 2.5m - 5.0m			
Part Number	Description		
2104N4224	Excel cross-duct gas detection system, long range (2.5 to 5.0m), 4 to 20mA (source) and Modbus outputs, ATEX/IECEx, fully		
	wired with flexible conduit, electro polished 316SS. Includes detection block, quad tile heated reflector panel, Ex e junciton		
	box with M20/M25 cable entries and 316SS mounting plate. Methane calibration only.		

17. Searchline Excel Cross-Duct Infrared Flammable Gas Detector



17.2 Accessories

Installation Accessories		
Part Number	Description	
2440K0004	Duct mounting kit for use with UL approved short range cross duct systems. Comprises DX100M, junction box and flexible	
	conduit. See below BOM table.	
2440K0005	Duct Mounting Kit for use with UL approved short range cross duct systems. Comprises 8 terminal junction box and flexible	
	conduit (2).	
2104B2557	Cross duct adapter plate for OELD & XNX	
2441-0027	8 terminal junction box for remote mounted cross duct systems (3 x 3/4"NPT entries)	
00780-A-0100	Honeywell Junction Box- Bartec OTB122 With Continuity Plate 1 X 25mm - 3 X 20mm Entries - ATEX Approved	

Hand Held Interrogators		
Part Number	Description	
04230-A-1001	Hand held interrogator ATEX certified (4V0 software) for Optima, Optima Plus and Excel	
2104B2351	Hand held interrogator UL certified (4V0 software) for Optima, Optima Plus and Excel	
2108B1455	Hand held EEPROM upgrade (4V0)	
04230-A-1025	SHC protection device module and lead	
2104B6250	SHC Calibrator connector system 10 m	

Junction Box Interfaces	
Part Number	Description
OELDBXXXXXADNUX	OELD Smart Junction Box, Display, C1D1 Z1, Aluminium, 3/4"NPT, cULus
OELDBXXXXXSDNUX	OELD Smart Junction Box, Display, C1D1 Z1, 316SST, 3/4"NPT, cULus
2104B2382	DX100M XPROOF junction box UL with Modbus capability

Note: Must order adapter plate (2104B2557) when ordering the OELD smart junction box

Gas Test Equipment	
Part Number	Description
2104N3000	Excel test filters Kit type A, B, C, D, E, F, G, H and manual

17.3 Spares

Installation Accessories	
Part Number	Description
2108D0271	Remote gassing pipe

Part Number	Description				
2440K0004	Duct Mounting Kit for use with UL approved short range cross duct systems. Comprises 8 terminal junction				
	box and flexible conduit (2).				
		Qty.	Unit		
0235-0163	COUPLING FLEX 27" 1/2 NPT EXPRF	2	EA		
105437	FITTING REDUCER 3/4NPT TO 1/2NPT	1	EA		
104626	FITTING UNION X-PROOF 1/2 NPT M-F	1	EA		
0235-0129	UNION 90 DEG 1/2NPT F TO 3/4NPT M	1	EA		
200227-L9	ADHESIVE THREAD LUBRICANT	1	EA		
2104B2382	DX100 (M) XPROOF TERMINATION UNIT	1	EA		
2440A0004	DUCT MOUNT EXCEL UL KIT ASSY DWG	1	EA		
2440-0005	DX100 TERMINATION LABEL EXCEL	1	EA		
106091-L9	BOLT M100 20.000 H HH SS NF	2	EA		
106092-L9	WASHER LOCK SPLIT M10 SS	2	EA		
106639	BAG 3 X 4 POLY ZIP-LOK	2	EA		
201059-L9	BOX 14 X 12 X 10	1	EA		
200008	BAG POLY ZIP 6 X 9 .002	1	EA		

18. FSX Detectors

Quick Reference Chart

		FS24X-2	FS24X-9	FS20X	FS10
	Ultraviolet Band (0.18 – 0.26 μ)			√	
SPECTRAL	Visible Band (0.4 – 0.7 μ)	V	V	√	√
TR/	NearBand IR (0.7 μ – 1.1 μ)	V	V	√	√
NSI	WideBand IR1 (1.1 – 3 μ)	V	V	√	$\sqrt{}$
SE	WideBand IR1 (1.1 – 3.5 μ)			√	
	WideBand IR2 (3.0 – 5.0 μ)	V	$\sqrt{}$		
>	Very High	200+	200+	200+	
TIVIT *(*	High	150	150	150	45
SENSITIVITY (feet)*	Medium	100	100	100	30
S	Low	50	50	50	15
RESPONSE	Fireball / Quick Response Option (< 500 mS)				V
RESP	Acetylene Long Range Option			√	
Œ	Field of View (conical)	110°	90°	90°	90°
отнев	HART Option	V	√	V	
6	Modbus Built-In	√	V	√	
SURES	Aluminum Class I, Div. 1	V	√	√	√
ENCLOSURES	316 Stainless Steel Class I, Div. 1	V	V	V	V
	FM	V	$\sqrt{}$	V	V
rs	cFM	V	V	√ 	V
APPROVALS	ATEX	√ /	√ /	√ /	√
DR'	IECEX	√ 1	√ √	√ √	√
ΑPF	INMETRO GOST-R	√ √	√ √	√ √	
	SIL 2 Compliant	√	√ √	•	
. ω	TL-2055	√ √	\ √	√	
TEST LAMPS	TL-1055	· √	√ ·	√	
F 5	FS-846-B				√
MOUNT	SM4	V	1	1	V

^{*}Detection distance for a one sq. ft. reference heptane pan fire

19. FSX Detectors

Applications Chart

		FS24X-2	FS24X-9	FS20X	FS10
	Aerosol Filling Facilities	0	0	0	•
	Automotive Paint Lines	0	0	0	•
5	Curing Ovens	0	0	0	•
툸	General Finishing	0	0	0	•
FINISHING	Liquid Paint Spray Line	0	0	0	•
	Paint and Solvent Storage	0	0	0	•
	Powder Coating Booths	0	0	0	•
	Aircraft Hangars	•	•	•	0
	Airport Terminals	•	•	0	0
	Cold Storage Warehouses	•	•	0	0
3AL	Engine Test Cells	•	•	•	0
GENERAL	General Warehouse	•	•	•	0
GE	Lumber Storage	•	•	•	0
	Marine Engine Rooms	•	•	•	0
	Marine Terminals	•	•	•	0
	PowerPlants	•	•	•	0
	Acetylene Processing and Storage	0	0	•	0
	Chemical Storage	•	•	•	0
	Cogeneration Plants	•	•	•	Ö
	Crude and Product Tank Farms	•	•	0	0
	Ethanol Production and Storage	0	0	•	0
	Gas Collection Facilities	•	•	•	0
LS	Gas Compressor Buildings	•	•	•	0
<u>∨</u>	Gas Processing Plants	•	•	•	0
<u> </u>	Gas Turbine Enclosures	•	•	•	0
Š	Gasoline Loading Terminals	•	•	•	0
l Ĕ	Isopropanol (IPA) Production and Storage	0	0	•	0
퓜	LNG Storage/Distribution	0	•	•	0
and	LPG Storage/Distribution	•	•	•	0
AS	Methanol Production and Storage	0	0	•	0
OIL, GAS and PETROCHEMICALS	Natural Gas and CNG Plants	•	•	•	0
ə	Offshore Drilling Platforms	•	•	•	0
	Offshore Production Platforms	•	•	•	0
	Petrochemical Plants	•	•	•	0
	Petroleum Product Pipelines	•	•	•	0
	Petroleum Product Pumping Stations	•	•	•	0
	Rail and Truck Loading/Unloading	•	•	•	0
	Refineries		•		0
	Clean Rooms	0	0	0	0
	Gas Cabinets	0	0	0	0
	Hydrogen Gas Cabinets	0	0	•	0
IAL	Hydrogen Plants	0	0	0	0
GENERAL	Hydrogen Storage	0	0	0	0
GEI	IPA Stations	0	0	0	0
	Silane Gas Cabinets	0	0	0	0
	Silane Gas Manufacturing	0	0	•	0
	Silane Gas Storage	0	0	0	0

Recommended Suitable ONot Recommended

Triple IR Fire and Flame Detector (IR/IR/IR/Visible)





The FS24X is the latest generation high technology Multi-Spectrum Triple IR (IR/IR/IR/Visible) Fire and Flame Detector, which is part of our FSX family of advanced technology Electro-Optical fire detectors. Using our patented* WideBand IR $^{\text{TM}}$, WideBand 4.3 micron IR $^{\text{TM}}$, and Visible detection technology, the FS24X is a quantum leap in flame and fire detection. Sophisticated software algorithms and dual microprocessors ensure that the FS24X has the highest fire detection performance combined with optimal false alarm rejection.

110° field of view with a detection range greater than 200 ft.

Features

- Patented* WideBand IR™ Technology
- Patented* Electronic Frequency Analysis™
- Visible Sensor for optimum false alarm rejection
- Selectable detection sensitivities
- Field-of-View: 110° cone-of-vision (90° cone-of-vision model also available)
- Dual microprocessors for reliable performance
- Real-time clock for accurate time dating of events
- FirePic[™] pre-fire event data storage
- Event log with date and time stamp
- RS-485 Modbus communication
- Non-Isolated 4-20 mA Analog output (sink or source)
- Alarm, Fault and Fire Verification relays
- Automatic optical path and electronic selftest
- Widest operating temperature range
- Patented* Electronics Module for components protection with easy plug-in terminations and field installation
- Two 3/4 in. NPT OR 25 mm conduit entries
- Low Power Consumption
- High RFI and EMI immunity

Benefits

- Detects hydrocarbon and non-hydrocarbon fires in all environmental conditions
- User selectable outputs
- Optimal false alarm rejection for all environmental conditions
- Minimal maintenance for trouble-free operation
- PC software and Interface Module (FSIM) for fault diagnostics, real-time graphics (RTGs), and downloading of FirePics™ and event log
- Suitable for a wide variety of applications
- Easy electronics module replacement
- Test lamps for manual testing

Certifications

• FM:

Class I, Div. 1 & 2, Groups B, C, & D Class II, Div. 1 & 2, Groups E, F, & G Class III

• ATEX: II 2 G D Ex d IIC T4 (Ta: -60 to +110°C), T5 (Ta: -60 to +90°C), T6 (Ta: -60 to +75°C)

• CE:

Complies with EN6000-6-4, EN50130-4, & EN54-10:2002 + A1:2005

• SIL Rating:

FMEDA meets IEC 61508 safety requirements

Triple IR Fire and Flame Detector (IR/IR/IR/Visible)



20.1 FS24X-211 Series with 110° Field of View, Standard Temp Range -40° to 85°C

FS24X-211 Series with 110° field of view, standard temp range -40° to 85°C		
Part Number	Description	
FS24X-211-21-1	QuadBand™ IR3+ Detector, Copper-Free Aluminum Encl., (2) ¾"NPT entries FM, cFM, IECEx &	
	ATEX approved	
FS24X-211-22-1	QuadBand™ IR3+ Detector, 316 Stainless Steel Encl., (2) ¾" NPT entries FM, cFM, IECEx &	
	ATEX approved	
FS24X-211-23-1	QuadBand™ IR3+ Detector, Copper-Free Aluminum Encl., (2) M25 entries FM, cFM, IECEx &	
	ATEX approved	
FS24X-211-24-1	QuadBand™ IR3+ Detector, 316 Stainless Steel Encl. (2) M25 entries FM, cFM, IECEx & ATEX	
	approved	
FS24X-211-21-4	QuadBand™ IR3+ detector, 110° field of view, copper-free aluminum encl., (2) 3/4 in. NPT	
	entries INMETRO approved	
FS24X-211-22-4	QuadBand™ IR3+ detector, 110° field of view, 316 stainless steel encl., (2) 3/4 in. NPT entries	
	INMETRO approved	
FS24X-211-23-4	QuadBand™ IR3+ Detector, Copper-Free Aluminum Encl., (2) M25 entries INMETRO	
	approved	
FS24X-211-24-4	QuadBand™ IR3+ Detector, 316 Stainless Steel Encl. (2) M25 entries INMETRO approved	

20.2 FS24X-212 Series

FS24X-211 Kits	
Part Number	Description
FS24X-212-21-1	FS24X-211-21-1 QuadBand™ IR3+ Detector, Copper-Free Aluminum Encl., (2) ¾"NPT entries
	FM, cFM, IECEx & ATEX approved with FSX-A014R Optional Registered HART Module for
	FS24X Detectors Factory installed.
FS24X-212-22-1	FS24X-211-22-1 QuadBand™ IR3+ Detector, 316 Stainless Steel Encl., (2) ¾" NPT entries FM,
	cFM, IECEx & ATEX approved with FSX-A014R Optional Registered HART Module for FS24X
	Detectors Factory installed.
FS24X-212-23-1	FS24X-211-23-1 QuadBand™ IR3+ Detector, Copper-Free Aluminum Encl., (2) M25 entries
	FM, cFM, IECEx & ATEX approved with FSX-A014R Optional Registered HART Module for
	FS24X Detectors Factory installed.
FS24X-212-24-1	FS24X-211-24-1 QuadBand™ IR3+ Detector, 316 Stainless Steel Encl. (2) M25 entries FM,
	cFM, IECEx & ATEX approved with FSX-A014R Optional Registered HART Module for FS24X
	Detectors Factory installed.
FS24X-212-21-4	FS24X-211-24-1 QuadBand™ IR3+ Detector, 316 Stainless Steel Encl. (2) M25 entries
	INMETRO approved with FSX-A014R Optional Registered HART Module for FS24X Detectors
	Factory installed.
FS24X-212-22-4	FS24X-211-24-1 QuadBand™ IR3+ Detector, 316 Stainless Steel Encl. (2) M25 entries
	INMETRO approved with FSX-A014R Optional Registered HART Module for FS24X Detectors
	Factory installed.
FS24X-212-23-4	FS24X-211-23-1 QuadBand™ IR3+ Detector, Copper-Free Aluminum Encl., (2) M25 entries
	INMETRO approved with FSX-A014R Optional Registered HART Module for FS24X Detectors
	Factory installed.
FS24X-212-24-4	FS24X-211-24-1 QuadBand™ IR3+ Detector, 316 Stainless Steel Encl. (2) M25 entries
	INMETRO approved with FSX-A014R Optional Registered HART Module for FS24X Detectors
	Factory installed.

Triple IR Fire and Flame Detector (IR/IR/IR/Visible)



20.3 FS24X-911 Series with 90° field of view, standard temp range -60° to 85°C

Part Number	Description	
FS24X-911-21-1	QuadBand™ IR3+ Detector, Copper-Free Aluminum Encl., (2) ¾"NPT entries FM, cFM, IECEx &	
	ATEX approved	
FS24X-911-22-1	QuadBand™ IR3+ Detector, 316 Stainless Steel Encl., (2) ¾" NPT entries FM, cFM, IECEx &	
	ATEX approved	
FS24X-911-23-1	QuadBand™ IR3+ Detector, Copper-Free Aluminum Encl., (2) M25 entries FM, cFM, IECEx &	
	ATEX approved	
FS24X-911-24-1	QuadBand™ IR3+ Detector, 316 Stainless Steel Encl. (2) M25 entries FM, cFM, IECEx & ATEX	
	approved	
FS24X-911-21-5	QuadBand™ IR3+ Detector, Copper-Free Aluminum Encl., (2) ¾"NPT entries FM, for High	
	Background IR Applications	
FS24X-911-22-5	QuadBand™ IR3+ Detector, 316 Stainless Steel encl., (2) 3/4 in. NPT entries FM, for High	
	Background IR Applications	
FS24X-911-23-5	QuadBand™ IR3+ Detector, Copper-Free Aluminum Encl., (2) M25 entries FM, for High	
	Background IR Applications	
FS24X-911-24-5	QuadBand™ IR3+ Detector, 316 Stainless Steel encl., (2) M25 entries FM, for High	
	Background IR Applications	
FS24X-911-21-6	QuadBand™ IR3+ Detector, Copper-Free Aluminum Encl., (2) ¾"NPT entries FM, cFM, IECEx &	
	ATEX and EN54-10 approved	
FS24X-911-22-6	QuadBand™ IR3+ Detector, 316 Stainless Steel Encl., (2) ¾" NPT entries FM, cFM, IECEx &	
	ATEX and EN54-10 approved	
FS24X-911-23-6	QuadBand™ IR3+ Detector, Copper-Free Aluminum Encl., (2) M25 entries FM, cFM, IECEx,	
	ATEX and EN54-10 approved	
FS24X-911-24-6	QuadBand™ IR3+ Detector, 316 Stainless Steel Encl. (2) M25 entries FM, cFM, IECEx & ATEX	
	and EN54-10 approved	

Triple IR Fire and Flame Detector (IR/IR/IR/Visible)



20.4 FS24X-912 Series (HART)

FS24X-912 Series	
Part Number	Description
FS24X-912-21-1	QuadBand™ IR3+ Detector, Copper-Free Aluminum Encl., (2) ¾"NPT entries FM, cFM, IECEx &
	ATEX approved with FSX-A014R Optional Registered HART Module for FS24X Detectors
	Factory installed.
FS24X-912-22-1	QuadBand™ IR3+ Detector, 316 Stainless Steel Encl., (2) ¾" NPT entries FM, cFM, IECEx &
	ATEX approved with FSX-A014R Optional Registered HART Module for FS24X Detectors
	Factory installed.
FS24X-912-23-1	QuadBand™ IR3+ Detector, Copper-Free Aluminum Encl., (2) M25 entries FM, cFM, IECEx &
	ATEX approved with FSX-A014R Optional Registered HART Module for FS24X Detectors
	Factory installed.
FS24X-912-24-1	QuadBand™ IR3+ Detector, 316 Stainless Steel Encl., (2) M25 entries FM, cFM, IECEx & ATEX
	approved with FSX-A014R Optional Registered HART Module for FS24X Detectors Factory
	installed.
FS24X-912-21-4	QuadBand™ IR3+ detector, 90° field of view, copper-free aluminum encl., (2) 3/4 in. NPT
	entries INMETRO approved with FSX-A014R Optional Registered HART Module for FS24X
	Detectors Factory installed.
FS24X-912-22-4	QuadBand™ IR3+ detector, 90° field of view, 316 stainless steel encl., (2) 3/4 in. NPT entries
	INMETRO approved with FSX-A014R Optional Registered HART Module for FS24X Detectors
	Factory installed.
FS24X-912-23-4	QuadBand™ IR3+ Detector, Copper-Free Aluminum Encl., (2) M25 entries INMETRO
	approved with FSX-A014R Optional Registered HART Module for FS24X Detectors Factory
	installed.
FS24X-912-24-4	QuadBand™ IR3+ Detector, 316 Stainless Steel Encl., (2) M25 entries INMETRO approved
	with FSX-A014R Optional Registered HART Module for FS24X Detectors Factory installed.

20.5 Replacement Detector Modules FS24X

Replacement Dete	ctor Modules FS24X
Part Number	Description
FS24X-911-10	FS24X Replacement Module - standard temp range
FS24X-912-10	FS24X Replacement Module w/HART - standard temp range

20.6 Accessories FS24X

Accessories	
Part Number	Description
SM4	Stainless Steel Swivel mounting assembly for FS24X, FS20X, SS4, SS2 detectors
PSU-12	Universal charger for Fire Sentry Test Lamps and Interface Kits. For 110-240 VAC with
	international plugs
TL-2055	IR Test lamp for testing FSX detectors, explosion proof version. Incl universal charger
TL-1055	IR Test lamp for testing FSX detectors, non-explosion proof version. Incl universal charger
SH-001	Sunshield for SS2, SS4 & FS24X Detectors, 316 Stainless Steel
FSX-A014R	Optional Registered HART Module for FS24X Detectors

Triple IR Fire and Flame Detector (IR/IR/Visible)



20.7 Spare Parts FS24X

Spare Parts	
Part Number	Description
FSX-A009	Stainless Steel Grill Kit for FS24X-2 Detectors, for -5 version only
FSX-A010	Stainless Steel Grill Kit for FS24X-9 Detectors, for -5 version only
FSX-A006	Replacement IR Bulb TL1055/TL2055
PW-3123-0005	Battery Pack for FT-2145/TL-1055/TL-2055 Test Lamp

21. Model FS20X

Multi-Spectrum Fire and Flame Detector UV/Dual IR/VIS





The FS20X is the latest generation high technology Multi-Spectrum (UV/Dual IR/VIS) Fire and Flame Detector, which is part of the FSX family of advanced technology Electro-Optical Flame Detectors. Based on the foundation of the highly successful and reliable SS4 detector, the FS20X detector represents a quantum leap in integrating Infrared and Ultraviolet sensing technologies. The FS20X is a fire and flame detector with a proven UV solar-blind Sensor. The FS20X exhibits faster false-alarm free response to fires over a wider temperature range and with a much longer detection range compared to conventional UV/IR detectors.

Solar blind 90° field of view and detection range greater than 200 ft.

Features

- Patented* WideBand IR™ Infrared combined with Ultraviolet
- Detection range greater than 200 ft. to
 1 sq. ft. heptane fire
- Patented* Electronic Frequency Analysis
- Visible Sensor for optimum false alarm rejection
- Selectable detection sensitivities
- Solar blind 90° cone-of-vision
- Dual Microprocessors for reliable performance
- Real-time clock for accurate time dating of events
- FirePic[™] Up to 6 pre-fire event data storage
- Event log Up to 200 events with date and time stamp
- Built-in RS-485 Modbus Communication
- Built-in non-isolated 4-20 mA analog output (sink or source)
- Alarm, Fault and Fire Verification relays
- Automatic Optical Path and Electronic Self-Test
- Widest operating temperature range
- Patented* Electronics Module for components protection with plug-in terminations for easy field installation
- Two 3/4 in. NPT or 25 mm conduit entries
- Low Power Consumption
- High RFI and EMI immunity
- FM, ATEX, CE mark approvals
- Meets SIL 2 requirements

Benefits

- Detects hydrocarbon and non-hydrocarbon fuel fires in all environmental conditions
- Arc welding immunity
- False alarm rejection for all environmental conditions
- Minimal maintenance for trouble-free operation
- PC software and Interface Module (FSIM) for fault diagnostics real-time graphs (RTGs), and downloading of FirePics™ and event log
- Suitable for a wide variety of applications

Certifications

- FM: Class I, Div. 1 & 2, Groups B, C, & D; Class II, Div. 1 & 2, Groups E, F, & G; Class III
- ATEX: II 2 G D; Ex d IIC T4 (Ta: -40 to +110°C), T5 (Ta: -40 to +75°C), T6 (Ta: -40 to +60°C)
- CE: Complies with EN6100-6-4 & EN50130-4, EN54-10:2002 + A1:2005

21. Model FS20X

Multi-Spectrum Fire and Flame Detector UV/Dual IR/VIS



21.1 FS20X-211 Series, standard temp range -40° to 85°C

FS20X-211 Series, st	andard temp range -40° to 85°C
Part Number	Description
FS20X-211-21-2	DUAL IR/UV Detector Copper-Free Aluminum Encl. with (2) ¾" NPT entries, FM, cFM for Class I,
	Division 1, Groups A, B, C, D; Class II, Division 1, Groups E, F, G; Class III
FS20X-211-22-2	DUAL IR/UV Detector 316 Stainless Steel Encl. with (2) ¾"NPT entries, FM, cFM for Class I,
	Division 1, Groups A, B, C, D; Class II, Division 1, Groups E, F, G; Class III
FS20X-211-23-3	DUAL IR/UV Detector Copper-Free Aluminum Encl. with (2) M25 entries, FM, cFM, ATEX, IECEx
	for Class I, Zone 1
FS20X-211-24-3	DUAL IR/UV Detector 316 Stainless Steel Encl. with (2) M25 entries, FM, cFM, ATEX, IECEx for
	Class I, Zone 1
FS20X-211-21-4	Dual IR/UV Detector Copper-Free Aluminum Encl. with (2) 3/4 in. NPT entries, INMETRO
FS20X-211-22-4	Dual IR/UV Detector 316 Stainless Steel Encl. with (2) 3/4 in. NPT entries, INMETRO
FS20X-211-23-4	DUAL IR/UV Detector Copper-Free Aluminum Encl. with (2) M25 entries, INMETRO
FS20X-211-24-4	DUAL IR/UV Detector 316 Stainless Steel Encl. with (2) M25 entries, INMETRO

21.2 FS20X-212 Series w/HART, standard temp range -40° to 85°C

FS20X-212 Series, st	andard temp range -40° to 85°C
Part Number	Description
FS20X-212-21-2	Dual IR/UV copper-free aluminum encl. with (2) 3/4 in. entries, FM/cFM, HART module factory
	installed
FS20X-212-22-2	Dual IR/UV 316 stainless steel encl. with (2) 3/4 in. entries, FM/cFM, HART module factory
	installed
FS20X-212-23-3	Dual IR/UV copper-free aluminum encl. with (2) M25 entries, ATEX/IECEx, HART module factory
	installed
FS20X-212-24-3	Dual IR/UV 316 stainless steel encl. with (2) M25 entries, ATEX/IECEx, HART module factory
	installed
FS20X-212-21-4	Dual IR/UV copper-free aluminum encl. with (2) 3/4 in. NPT entries, INMETRO. HART Module
	factory installed
FS20X-212-22-4	Dual IR/UV stainless steel encl. with (2) 3/4 in. NPT entries, INMETRO. HART Module factory
	installed
FS20X-212-23-4	Dual IR/UV copper-free aluminum encl. with (2) M25 entries, INMETRO, HART module factory
	installed
FS20X-212-24-4	Dual IR/UV 316 stainless steel encl. with (2) M25 entries, INMETRO, HART module factory
	installed

21.3 Accessories FS20X

FS20X Accessories	S
Part Number	Description
FSX-A014	Optional HART Module for FS20X Detectors
FVR-01	Field of View Restrictor
PSU-12	Universal charger for Fire Sentry Test Lamps and Interface Kits. For 110-240 VAC with international plugs
SH-001	Sunshield for SS2, SS4 & FS24X Detectors, 316 Stainless Steel
SM4	Stainless Steel Swivel mounting assembly for FS24X, FS20X, SS4, SS2 detectors
TL-1055	IR Test lamp for testing FSX detectors, non-explosion proof version. Incl universal charger
TL-2055	IR Test lamp for testing FSX detectors, explosion proof version, Incl universal charger

21. Model FS20X

Multi-Spectrum Fire and Flame Detector UV/Dual IR/VIS 21.4 Replacement Detector Module for FS20X



Replacement Dete	ctor Module for FS20X
Part Number	Description
FS20X-211-10	FS20X Replacement Detector Module
FS20X-212-10	FS20X Replacement Detector Module w/HART

21.5 Spare Parts FS20X

Spare Parts	
Part Number	Description
FSX-A006	Replacement IR Bulb for TL1055 and TL2055
FSX-A011	Grill Kit for the FS20X
PW-3123-0005	Battery Pack for FT-2145/TL-1055/TL-2055 Test Lamp

22. FS10 Fire Detection Systems

For Liquid Paint Spray and Electrostatic Powder Coating



A high-speed microprocessor based fire detection and process control system specially designed for liquid and powder coating applications, the FS System 10 quickly detects the presence of a flame, reacts by initiating a shutdown of the electrostatic finishing process in a matter of milliseconds; and effectively interrupts the fire before residues and wet paint films can ignite.

The FS System 10 is the only system that provides a two-stage response: an ALERT for spray gun "fireball" type fires and if the fire continues, a FIRE ALARM is declared in 4-5 seconds.

90° field of view and detection range of 15 ft.

Features

- Multi-Spectral digital electro-optical infrared fire Detector
- Meets requirements of NFPA 33
- Unique two-stage ALERT and FIRE ALARM response
- Immune to false alarms caused by arcs or corona discharges
- Built-in automatic "through the lens" self-test
- Not sensitive to background radiant energy sources such as paint heaters
- Not affected by absorbing smoke or paint solvent mist in liquid pant spray booths
- Sees through paint, powder or oil residue on Detector's lens
- Digital communications with RS-485 interface

Certifications

- Explosion-Proof; Class I, Div. 1 & 2, Groups B, C, & D Class II, Div. 1 & 2, Groups E, F, & G, Class III
- FM, CE

22.1 Card Controller with FS10 Electro-Optical Fire Detector

FS10 fire Detector with card controller. Incl PC software and manual. Note: Requires backplane card and 24 Vdc.

Card Controlle	r with FS10 Electro-Optical Fire Detector
Part Number	Description
Option-2FL	2FL system: liquid paint spray line applications with two (2) fire signal relay levels
Option-2GF	2GF system: general finishing applications with process control and fire alarm signal relays
Option-2WE	2WE system: powder coating and paint spray line applications with two (2) fire signal relay levels
Option-2WL	2WL system: paint spray line applications with three (3) fire signal relay levels
Option-2GE	2GE system: powder coating and paint spray line applications with two (2) fire signal relay levels
BP-1	Backplane for 1 card controller
BP-2	Backplane for 2 card controllers
BP-4-L9	Backplane for 4 card controllers

22. FS10 Fire Detection Systems For Liquid Paint Spray and Electrostatic Powder Coating

22.2 Spare Parts - FS10 Wall Mount Controller and Card Controller

Spare Parts - FS10	Wall Mount Controller and Card Controller
Part Number	Description
SW-5143-001	Replacement keypad for FS10 wallmount
FS10-CARD-2FL	Liquid paint spray line applications with two (2) fire signal relay levels
FS10-CARD-2GE	Powder coating and paint spray line applications with two (2) fire signal relay levels
FS10-CARD-2GF	General finishing applications with process control and fire alarm signal relays
FS10-CARD-2WL	Paint spray line applications with three (3) fire signal relay levels
FS10-Detector	Model FS10 fire Detector for use with wall mount controller or card controller
FS10-DET-MODULE	Replacement electronics module for fire detector for the above systems

22.3 Detector Cables

Card Controller w	vith FS10 Electro-Optical Fire Detector
Part Number	Description
CAB-50	50 ft. card controller cable. Connects fire detector to controller
CAB-100	100 ft. card controller cable. Connects fire detector to controller

22.4 FS10 Stand Alone (Unitized) Electro-Optical Fire Detectors

Includes ALARM and FAULT relays. 24 Vdc input. Temperature range (-40 $^{\circ}$ C to +85 $^{\circ}$ C). Approvals: FM, cFM, CSFM for Class I, Div. 2, Groups B, C, & D.

Part Number	Description
FS10-R30	Copper-free aluminum housing incl ALERT / FIRE EARLY WARNING relay, 30 ft. sensitivity (latching alert and alarm relays)
FS10-R30-SS	316 stainless steel housing incl ALERT / FIRE EARLY WARNING relay, 30 ft. sensitivity (latching alert and alarm relays)
FS10-R30-EC	Copper-free aluminum housing incl ALERT / FIRE EARLY WARNING relay, 30 ft. sensitivity (latching alert and alarm relays), Normally Energized with Normally Closed Contacts
FS10-R45	Copper-free aluminum housing 45 ft. sensitivity (latching alarm relays)
FS10-R45-SS	316 stainless steel housing 45 ft. sensitivity (latching alarm relays)
FS10-RN30	Copper-free aluminum housing incl ALERT / FIRE EARLY WARNING relay, 30 ft. sensitivity (non-latching alert and alarm relays)
FS10-RN30-SS	316 stainless steel housing incl ALERT / FIRE EARLY WARNING relay, 30 ft. sensitivity (non-latching alert and alarm relays)
FS10-RN45	Copper-free aluminum hsg 45 ft. sensitivity (non-latching alarm relays)
FS10-RN45-SS	316 Stainless steel housing 45 ft. sensitivity (non-latching alarm relays)

22. FS10 Fire Detection Systems For Liquid Paint Spray and Electrostatic Powder Coating

22.5 Spare Parts - FS10 Stand Alone (Unitized) Electro-Optical Fire Detectors

Spare Parts - FS10 Stand Alone (Unitized) Electro-Optical Fire Detectors	
Part Number	Description
FS10-R30-MOD	Replacement electronics module for Model FS10-R30 stand alone fire Detector (latching alert and alarm relays)
FS10-R30-EC-MOD	Replacement electronics module for Model FS10-R30 stand alone fire Detector (latching alert and alarm relays), Normally Energized with Normally Closed Contacts
FS10-R45-MOD	Replacement electronics module for Model FS10-R45 stand alone fire Detector (latching alarm relay)
FS10-RN30-MOD	Replacement electronics module for Model FS10-RN30 stand alone fire Detector (non-latching alert and alarm relays)
FS10-RN45-MOD	Replacement electronics module for Model FS10-RN45 stand alone fire Detector (non-latching alarm relay)

22.6 Spare Parts - FS10 Stand Alone (Unitized) Electro-Optical Fire Detectors

Card Controller with FS10 Electro-Optical Fire Detector	
Part Number	Description
FS10R-GR-Kit	Stainless steel grill Kit for FS10-R and FS10-CS Detectors (Killark housing) Kit includes: (1) SS grill, (2) SS brackets, and (2) SS screws
RS-232 Cable	RS232 computer Cable for connection from FS7-130-SX, S7-2175, option-1 or option-2 controllers or interface box to PC
PSU-12	110/220 Vac, 50-60 HZ input /15 Vdc output : universal Charger for interface box or DD Series, FT Series and TL Series test lamps

22.7 Accessories - FS10 Stand Alone (Unitized) and Controller Based Electro-Optical Fire Detectors

FS10 Stand Alone (Unitized) Electro-Optical Fire Detectors	
Part Number	Description
SM4	Stainless steel swivel mount allows Detector to be pointed in any direction
FS-846-B	Test lamp Battery operated for testing FS10 fire Detectors up to 10 ft.
EXPL-1	EXTENSION POLE FOR DPC-12 Extension Pole for placing and removing Disposable Protective Covers on FS10 Detectors
DPC-12	Disposable protective covers keeps powder or paint off the window lens of the FS10 fire Detector (12 per bag) (for use with FS10 only)
DASA1-P	Air shield for powder applications protects FS10 fire Detector window lens from powder build-up. Supplied with fitting for 1/4 in. tubing (can also be used with FS24X, FS20X, SS4, and SS2)
DASA6-N	Air shield for powder applications protects FS10 Fire Detector window lens from powder build-up. Supplied with fitting for 6 mm tubing

23. FS7

Multi-Spectrum Fire and Flame Detector





The Fire Sentry FS7 Flame Detector provides and intelligent two-stage response to semiconductor wet bench fires:

Stage 1: Alert. This is the first-stage response to a small fire with a heat energy output of 3 kW (the equivalent of a 4-inch diameter polypropylene pool fire). This fire may self-extinguish.

Stage 2: Alarm. If the fire does not self-extinguish, and grows to the Factory Mutual specified heat energy threshold of 13 kW (the equivalent of an 8-inch diameter polypropylene pool fire), the second stage response is activated.

The Fire Sentry FS7-2173 is used with Fire Sentry FS7-130-SX Controller. Controller supplies power to detectors monitors the status of all detectors and communicates with the detectors via the digital RS-485 communication channel. Fire Sentry FS7-2173 is supplied with a standard 20 ft. cable connector. Detectors are connected to the controller using the self-locking connectors and Fire Sentry junction boxes. This allows for fast and easy connections eliminating wiring problems. Each detector can store up to six time and date stamped FirePics™ (pre-event multi-spectral sensor array data) in non-volatile memory. Controller can also store event history table in the non-volatile memory, which contains the time and date stamped alert, alarm and fault histories. FirePics™ and event histories can be retrieved from the controller.

Additional Features and Benefits

- Multi-Spectral digital electro-optical radiant energy infrared fire detector Rugged leak-proof, heat-sealed, acidresistant,
- Unique two-stage fire detection response
- Immune to false alarm sources
- NOT affected by absorbing smoke, gasses or chemical vapors
- NOT sensitive to background radiant energy from electric heaters and ovens
- Detects hydrocarbon and non-hydrocarbon fires
- Rugged leak-proof, neat-sealed, acidresistant, injection-molded polypropylene housing
- Wide 120° field-of-view
- Digital communication with RS-485 interface
- FirePic™; time and date-stamped digital fire signatures
- Built-in detector automatic self test
- Unitized model design for stand-alone operation

23.1 Detectors

FS7 - Detectors	
Part Number	Description
FS7-2173	Viton O-ring. For use with FS7-130-SX Controller
FS7-2173-2RP	Non-Latching Alert and Alarm relays. Viton O-ring.
FS7-2173-2RP-K	Non-Latching Alert and Alarm relays. Kal-rez O-ring.
FS7-2173-KALO	Kal-rez O-ring. For use with FS7-130-SX Controller

23.2 Controller Systems

Controller Systems FS7	
Part Number	Description
FS7-130-SX	Multi-Zone Compact Controller, designed to be installed in Fire Panels, which
	monitors up to 12 Model FS7-2173 Fire Detectors. Programmable for up to 4 zones
	with relay outputs for ALERT and ALARM. Requires 24 VDC. Approvals: FM & CSFM

23.3 Accessories

FS7 - Accessories	
Part Number	Description
FS-746-B	Test Lamp. Battery operated for testing FS7 Fire Detectors up to 10 ft. distance.
FT-S7	Test Lamp. Battery operated for testing FS7 Fire Detectors up to 2 ft. distance.
FS7-2179	Junction Box for connecting Model FS7-2173 Fire Detectors in a daisy chain or star
	configuration. Complete with (4) Lemo female connectors. Required for Model FS7-
	130-SX applications.

23.4 Interconnection Cables

FS7 - Interconnection Cables	
Part Number	Description
CBMM-5	5 ft. cable with Male/Male Lemo connectors, (Junction Box to Junction Box).
CBMM-10	10 ft. cable with Male/Male Lemo connectors, (Junction Box to Junction Box).
CBMO-20	20 ft. cable with Male Lemo connector/open pigtail, (Junction Box to Model FS7-130-
	SX Controller or Model S7-2175 Control Panel).
CBMO-50	50 ft. cable with Male Lemo connector/open pigtail, (Junction Box to Model FS7-130-
	SX Controller or Model S7-2175 Control Panel).

23.5 Spare Parts

Spare Parts	
Part Number	Description
PSU-12	110/220 VAC, 50-60 HZ Input /15 VDC Output : Universal Charger for Interface Box or
	DD Series, FT Series and TL Series Test Lamps
PW-3123-0002	Replacement Battery for FT-S7 Tester (1 required)

24. SS Series of UV and UV/IR Fire and Flame Detectors

Quick Reference Chart

		SS4-A	SS4-AS	SS4-AUV	SS2-AM
SPECTRAL	Ultraviolet Band (0.18 - 0.26 μ)	√	V	V	\checkmark
	Visible Band (0.4 - 0.7 μ)	V	\checkmark		√
SE	WideBand IR (0.7 - 3.5 μ)	V	$\sqrt{}$		√
>	Very High	60	60	60	60
F *	High	45	45	45	
SENSITIVITY (feet)*	Medium	30	30	30	
SE	Low	15	15	15	
RESPONSE	Ultra High-Speed Response (Munitions)				V
SPO	Optimized Response (H4Si, H2, Alcohols, CH4)		√		
ä	Standard Response	√		√	
	Field of View	120°	120°	120°	120°
E	HART Option	V	√	\checkmark	
ОТНЕВ	Modbus Option				
	4-20 mA Option	√	√	√	
ENCLOSURES	Aluminum Class I, Div. 1	V	V	V	V
ENCLO	316 Stainless Steel Class I, Div. 1	√	V	V	√
	FM	V	V	√	√
LS	cFM	√ /	√ 	√ 	√
N N	ATEX	√ 	√	√ /	
) S	IECEX INMETRO	√ √	√	√	
APPROVALS	GOST-R	√ √			
	SIL 2 Compliant	√	√	√	
)	FT-2145 (Explosion Proof)	√	√ √	√	$\sqrt{}$
CE	DD85001 (Short Range) - Discontinued	√	√	√	√
TEST LAMPS/ SOURCE	85001- Discontinued	,	,	√	,
	TS2 - Discontinued				V
	SM4	√	V	V	√
MOUNT	188424				

^{*}Detection distance for a one sq. ft. reference heptane pan fire





SS4-A2 / AS2

The SS4 is a hazardous area certified flame detector for the detection of hydrocarbon (SS4-A2) and non-hydrocarbon fires (SS4-AS2). This multispectrum detector senses radiant energy in the ultraviolet (UV), visible and wideband infrared (IR) spectrum. The radiant energy from all types of flaming fires will alert the detector to their presence. The field of view is the widest in the industry with 120° field of view with a range of 60 ft. This means more hazard can be covered by each detector.

120° field of view with range up to 60 ft.

Features

- Multi-Spectrum™: senses ultraviolet, visible and Wide Band Infrared™
- Built-in test for optical "through the lens" testing
- False alarm immunity
- Detects hydrocarbon and non-hydrocarbon based fires
- Wide field-of-view and solar-blind
- Adjustable detector sensitivity
- Microprocessor based algorithms: FirePic[™], Snapshot[™] and Tri-Mode Plot[™]
- Wide temperature range of operation
- Compatible with standard approved fire alarm panels
- Explosion-proof housing
- Time programmable alarm verification
- FM ATFX mark annrovals



SS4-AUV2

While retaining all the features of the standard SS4-A2, the SS4-AS2 is optimized for the detection of ethanol, methanol, hydrogen and natural gas with a range up to 60 ft. range and a field of view of 120°, the UV only Version, SS4-AUV2, is for indoor applications where UV sources such as welding are not present.

120° field of view with range up to 60 ft.

Features

- Senses solar-blind ultraviolet band
- Built-in test for optical "through the lens" testing
- Utilizes long-life, ruggedized UV Sensors
- Detects hydrocarbon and non-hydrocarbon based fires
- Wide field-of-view and solar-blind
- Adjustable Detector sensitivity
- Microcomputer based algorithms: FirePic[™], Snapshot[™] and UV Plot
- Wide temperature range of operation
- Compatible with standard approved fire alarm panels
- Explosion-proof housing
- Time programmable alarm verification
- FM, ATEX mark approvals

Certifications

- Explosion-proof
- Class I, Div. 1 & 2, Groups B, C and D
- Class II, Div. 1 & 2, Groups E, F and G
- Class III





25.1 SS4 Series

	& SS4-AUV2 FM Certification
Part Number	Description
SS4-A2	Aluminum UV/IR, FM, Hydrocarbon Fires, Non Latching Alarm LED, FM, CFM, CSFM for
	Class I, Div.1 groups B,C & D (2) 3/4 NPT
SS4-A2-SS	Stainless Steel UV/IR, FM, Hydrocarbon Fires, Non Latching Alarm LED, FM, cFM, CSFM for
	Class I, Div.1 groups B,C & D (2) 3/4 NPT
SS4-AS2	Aluminum UV/IR, FM, optimised for Non-Hydrocarbons and Silane, Ethanol, Methanol,
	Hydrogen & Natural Gas Fires, Non-latching Alarm LED, FM, cFM, CSFM for Class I, Div.1
	groups B,C & D (2) 3/4 NPT
SS4-AS2-SS	Stainless Steel UV/IR, FM, optimised for Non-Hydrocarbons and Silane, Ethanol, Methanol,
	Hydrogen & Natural Gas Fires, Non-latching Alarm LED, FM, cFM, CSFM for Class I, Div.1
	groups B,C & D (2) 3/4 NPT
SS4-AUV2	Aluminum UV, FM, Hydrocarbon & Non-Hydrocarbon Fires, indoor applications, Non-
· - ·-	latching Alarm LED, FM, cFM, CSFM for C1, D1, Groups B,C,D (2) 3/4 NPT
SS4-AUV2-SS	Stainless Steel UV, FM Hydrocarbon & Non-Hydrocarbon Fires, indoor applications, Non-
	latching Alarm LED, FM, cFM, CSFM for C1, D1, Groups B,C,D (2) 3/4 NPT
SS4-A2-M	SS4-A2 Aluminum UV/IR, FM, Hydrocarbon Fires, Non Latching Alarm LED, FM, cFM, CSFM
	for Class I, Div.1 groups B,C & D (2) 3/4 NPT with MA420-4 4-20 mA Module for SS4
	Detectors New version Factory installed.
SS4-A2-SS-M	SS4-A2-SS Stainless Steel UV/IR, FM, Hydrocarbon Fires, Non Latching Alarm LED, FM,
	cFM, CSFM for Class I, Div.1 groups B,C & D (2) 3/4 NPT with MA420-4 4-20 mA Module
	for SS4 Detectors New version Factory installed.
SS4-AS2-M	SS4-AS2 Aluminum UV/IR, FM, optimised for Non-Hydrocarbons and Silane, Ethanol,
	Methanol, Hydrogen & Natural Gas Fires, Non-latching Alarm LED, FM, cFM, CSFM for
	Class I, Div.1 groups B,C & D (2) 3/4 NPT with MA420-4 4-20 mA Module for SS4 Detectors
	New version Factory installed.
SS4-AS2-SS-M	SS4-AS2-SS Stainless Steel UV/IR, FM, optimised for Non-Hydrocarbons and Silane,
	Ethanol, Methanol, Hydrogen & Natural Gas Fires, Non-latching Alarm LED, FM, cFM,
	CSFM for Class I, Div.1 groups B,C & D (2) 3/4 NPT with MA420-4 4-20 mA Module for SS4
	Detectors New version Factory installed.





SS4-AUV2-M	SS4-AUV2 Aluminum UV, FM, Hydrocarbon & Non-Hydrocarbon Fires, indoor applications,	
	Non-latching Alarm LED, FM, cFM, CSFM for C1, D1, Groups B,C,D (2) 3/4 NPT with MA420-	
	4 4-20 mA Module for SS4 Detectors New version Factory installed.	
SS4-AUV2-SS-M	SS4-AUV2-SS Stainless Steel UV, FM Hydrocarbon & Non-Hydrocarbon Fires, indoor	
	applications, Non-latching Alarm LED, FM, cFM, CSFM for C1, D1, Groups B,C,D (2) 3/4 NPT	
	with MA420-4 4-20 mA Module for SS4 Detectors New version Factory installed.	
SS4-A2-H	SS4-A2 Aluminum UV/IR, FM, Hydrocarbon Fires, Non Latching Alarm LED, FM, cFM, CSFM	
	for Class I, Div.1 groups B,C & D (2) 3/4 NPT with SS4-FSCHCOM SS4 Module HART Factory	
	installed.	
SS4-A2-SS-H	SS4-A2-SS Stainless Steel UV/IR, FM, Hydrocarbon Fires, Non Latching Alarm LED, FM,	
	cFM, CSFM for Class I, Div.1 groups B,C & D (2) 3/4 NPT with SS4-FSCHCOM SS4 Module	
	HART Factory installed.	
SS4-AS2-H	SS4-AS2 Aluminum UV/IR, FM, optimised for Non-Hydrocarbons and Silane, Ethanol,	
	Methanol, Hydrogen & Natural Gas Fires, Non-latching Alarm LED, FM, cFM, CSFM for	
	Class I, Div.1 groups B,C & D (2) 3/4 NPT with SS4-FSCHCOM SS4 Module HART Factory	
	installed.	
SS4-AUV2-H	SS4-AUV2 Aluminum UV, FM, Hydrocarbon & Non-Hydrocarbon Fires, indoor applications,	
	Non-latching Alarm LED, FM, cFM, CSFM for C1, D1, Groups B,C,D (2) 3/4 NPT with SS4-	
	FSCHCOM SS4 Module HART Factory installed.	
SS4-AUV2-SS-H	SS4-AUV2-SS Stainless Steel UV, FM Hydrocarbon & Non-Hydrocarbon Fires, indoor	
	applications, Non-latching Alarm LED, FM, cFM, CSFM for C1, D1, Groups B,C,D (2) 3/4 NPT	
	with SS4-FSCHCOM SS4 Module HART Factory installed.	

	SS4-AUV2 ATEX Certification	
SS4-A2-C-E	Aluminum UV/IR, ATEX, Hydrocarbon Fires, Non Latching Alarm LED, FM, cFM, ATEX, IECEx	
	FOR Zone 1 (2) M25	
SS4-A2-CSS-E	Stainless Steel UV/IR, ATEX, Hydrocarbon Fires, Non Latching Alarm LED, FM, cFM, ATEX,	
	IECEx FOR Zone 1 (2) M25	
SS4-AS2-C-E	Aluminum UV/IR, ATEX, optimised for Non-Hydrocarbons and Silane, Ethanol, Methanol,	
	Hydrogen & Natural Gas Fires, Non Latching Alarm LED, FM, cFM, CSFM for Class I, Div.1	
	groups B,C & D (2) M25	
SS4-AS2-CSS-E	Stainless Steel UV/IR, ATEX, optimised for Non-Hydrocarbons and Silane, Ethanol,	
	Methanol, Hydrogen & Natural Gas Fires, Non Latching Alarm LED, FM, cFM, ATEX, IECEx	
	for Zone 1 (2) M25	
SS4-A2-C-E-M	SS4-A2-C-E Aluminum UV/IR, ATEX, Hydrocarbon Fires, Non Latching Alarm LED, FM, cFM,	
	ATEX, IECEx FOR Zone 1 (2) M25 with MA420-4 4-20 mA Module for SS4 Detectors New	
	version Factory installed.	
SS4-A2-CSS-E-M	SS4-A2-CSS-E Stainless Steel UV/IR, ATEX, Hydrocarbon Fires, Non Latching Alarm LED, FM,	
	cFM, ATEX, IECEx FOR Zone 1 (2) M25 with MA420-4 4-20 mA Module for SS4 Detectors	
	New version Factory installed.	





SS4-AS2-C-E-M	SS4-AS2-C-E Aluminum UV/IR, ATEX, optimised for Non-Hydrocarbons and Silane, Ethanol,
	Methanol, Hydrogen & Natural Gas Fires, Non Latching Alarm LED, FM, cFM, CSFM for
	Class I, Div.1 groups B,C & D (2) M25 with MA420-4 4-20 mA Module for SS4 Detectors
	New version Factory installed.
SS4-AS2-CSS-E-M	SS4-AS2-CSS-E Stainless Steel UV/IR, ATEX, optimised for Non-Hydrocarbons and Silane,
	Ethanol, Methanol, Hydrogen & Natural Gas Fires, Non Latching Alarm LED, FM, cFM,
	ATEX, IECEx for Zone 1 (2) M25 with MA420-4 4-20 mA Module for SS4 Detectors New
	version Factory installed.
SS4-AUV2-C-E-M	SS4-AUV2-C-E Aluminum UV, FM, ATEX, Hydrocarbon & Non-Hydrocarbon Fires, indoor
	applications, Non-latching Alarm LED, FM, cFM, ATEX, IECEx Zone 1 (2) M25 with MA420-
	4 4-20 mA Module for SS4 Detectors New version Factory installed.
SS4-AUV2-CSS-E-M	SS4-AUV2-CSS-E Stainless Steel UV, FM, ATEX, Hydrocarbon & Non-Hydrocarbon Fires,
	indoor applications, Non-latching Alarm LED FM, cFM, ATEX, IECEx Zone 1 (2) M25 with
	MA420-4 4-20 mA Module for SS4 Detectors New version Factory installed.
SS4-A2-C-E-H	SS4-A2-C-E Aluminum UV/IR, ATEX, Hydrocarbon Fires, Non Latching Alarm LED, FM, cFM,
	ATEX, IECEx FOR Zone 1 (2) M25 with SS4-FSCHCOM SS4 Module HART Factory installed.
SS4-A2-CSS-E-H	SS4-A2-CSS-E Stainless Steel UV/IR, ATEX, Hydrocarbon Fires, Non Latching Alarm LED, FM,
	cFM, ATEX, IECEx FOR Zone 1 (2) M25 with SS4-FSCHCOM SS4 Module HART Factory
	installed.
SS4-AS2-C-E-H	SS4-AS2-C-E Aluminum UV/IR, ATEX, optimised for Non-Hydrocarbons and Silane, Ethanol,
	Methanol, Hydrogen & Natural Gas Fires, Non Latching Alarm LED, FM, cFM, CSFM for
	Class I, Div.1 groups B,C & D (2) M25 with SS4-FSCHCOM SS4 Module HART Factory
	installed.
SS4-AS2-CSS-E-H	SS4-AS2-CSS-E Stainless Steel UV/IR, ATEX, optimised for Non-Hydrocarbons and Silane,
	Ethanol, Methanol, Hydrogen & Natural Gas Fires, Non Latching Alarm LED, FM, cFM,
	ATEX, IECEx for Zone 1 (2) M25 with SS4-FSCHCOM SS4 Module HART Factory installed.
SS4-AUV2-C-E-H	SS4-AUV2-C-E Aluminum UV, FM, ATEX, Hydrocarbon & Non-Hydrocarbon Fires, indoor
	applications, Non-latching Alarm LED, FM, cFM, ATEX, IECEx Zone 1 (2) M25 with SS4-
	FSCHCOM SS4 Module HART Factory installed.
SS4-AUV2-CSS-E-H	SS4-AUV2-CSS-E Stainless Steel UV, FM, ATEX, Hydrocarbon & Non-Hydrocarbon Fires,
	indoor applications, Non-latching Alarm LED FM, cFM, ATEX, IECEx Zone 1 (2) M25 with
	SS4-FSCHCOM SS4 Module HART Factory installed.

25.2 Accessories SS4-AS, SS4-AS2, & SS4-AUV2

Accessories SS4-AS	Accessories SS4-AS, SS4-AS2, & SS4-AUV2	
Part Number	Description	
FT-2145	UV/IR Test Lamp with universal charger (FM & ATEX approval)	
FVR-01	Field of view restrictor	
MA420-4	4-20 mA Module for SS4 Detectors New version	
SH-001	Sunshield for SS2, SS4 & FS24X Detectors, 316 Stainless Steel	
SM4	Stainless Steel Swivel mounting assembly for FS24X, FS20X and SS4 detectors	
SS4-FSCHCOM	SS4 Module HART	





25.3 Spares SS4-A, SS4-A, & SS4-AUV2

SS2-A and SS4-AS	
Part Number	Description
SS4-MOD-A2	Replacement Electronics Module for SS4-A2 (UV/IR) Detectors. Module only, non-latching LED
SS4-MOD-AS2	Replacement Electronics Module for SS4-AS2 (UV/IR) Detectors. Module only, non-latching LED
SS4-MOD-AUV2	Replacement Electronics Module for SS4-AUV2 (UV) Detectors. Module only, non-latching LED
SS4-MOD-A2-M	Replacement Electronics Module for SS4-A2 (UV/IR) Detectors. Module only, non-latching LED with 4-20mA Output
SS4-MOD-AS2-M	Replacement Electronics Module for SS4-AS2 (UV/IR) Detectors. Module only, non-latching LED with 4-20mA Output
SS4-MOD-AUV2-M	Replacement Electronics Module for SS4-AUV2 (UV) Detectors. Module only, non-latching LED with
	4-20mA Output
SS4-MOD-A2-H	Replacement Electronics Module for SS4-A2 (UV/IR) Detectors. Module only, non-latching LED with HART Output
SS4-MOD-AS2-H	Replacement Electronics Module for SS4-AS2 (UV/IR) Detectors. Module only, non-latching LED with HART Output
SS4-MOD-AUV2-H	Replacement Electronics Module for SS4-AUV2 (UV) Detectors. Module only, non-latching LED with HART Output
H200	UV Test Source Module for SS4 Detectors
LAMP-3135-0002	IR Test Lamp Bulb (FT-2145)
LAMP-3125-0002	Replacement lamp for FT-2145
TN2-MOD-PIL	UV Test Lamp Bulb (FT-2145) + Fixture
PW-3123-0005	Battery Pack for Model FT-2145/TL-1055/Tl-2055 Test Lamps
PSU-12	Power supply for use with FT-2145 and FT-2145-2; PSU-12 is a Universal Charger for Fire Sentry test lamps and
	interface Kits. For 110-240 Vac with international plugs

26. SS2-AM Series

Ultra-High Speed Digital Fire and Flame Detector (UV/IR)





The Model SS2-AM, (non-latching Fire Alarm relay), and SS2-AML (latching Fire Alarm relay), represent the world's pre-eminent Ultra-High Speed UV/IR technology for Electro-Optical Fire and Flame Detectors, with thousands successfully operating in a multitude of installations worldwide.

This detector senses radiant energy in the Ultraviolet (UV), Visible and WideBand Infrared™ (IR) spectrum. The radiant energy from all types of flaming fires will alert the detector to their presence. 120° field of view with range up to 60 ft.

120° field of view with range up to 60 ft.

Features

- \bullet Multi-Spectrum senses energy in the UV, Vis and WideBand $IR^{\scriptscriptstyle\mathsf{TM}}$
- False alarm immunity
- Detects hydrocarbon and non-hydrocarbon fires
- Microprocessor based algorithms: FirePic[™] and Tri-Mode Plot[™]
- Wide field of view and solar blind
- Wide temperature range of operation
- Explosion-proof housing
- FS2000™ System compatible or stand-alone operation
- Compatible with approved fire alarm panels
- FM, ATEX mark approvals

26.1 SS2-AM Series

Part Number	Description	
SS2-AM	Copper-Free Aluminum Housing UV/IR/VIS High-Speed Electro-Optical Flame Detector, Non-	
	Latching Alarm Relay, ALARM & FAULT Relays, Class I, Division 1, Groups B, C, & D, FM,	
	CSFM, & cFM Approved, 3/4 NPT	
SS2-AML	Copper-Free Aluminum Housing UV/IR/VIS High-Speed Electro-Optical Flame Detector,	
	Latching Alarm Relay, ALARM & FAULT Relays, Class I, Division 1, Groups B, C, & D, FM,	
	CSFM, & cFM Approved, 3/4 NPT	

26.2 Accessories SS2-AM

Accessories SS2-AN	Λ
Part Number	Description
SM4	Stainless Steel Swivel mounting assembly for FS24X, FS20X, SS4, SS2 detectors
FT-2145	UV/IR Test Lamp with universal charger, (FM & ATEX approval)
SH-001	Sunshield for SS2, SS4 & FS24X Detectors, 316 Stainless Steel
FVR-01	Field of View Restrictor

26.3 Spares SS2-AM

Spares SS2-AM	
Part Number	Description
SS2-MOD-AM	SS2-AM Replacement Electronics Module
SS2-MOD-AML	SS2-AML Replacement Electronics Module
LAMP-3135-0002	IR Test Lamp Bulb (FT-2145)
TN2-MOD-PIL	UV Test Lamp Bulb (FT-2145) + Fixture
PW-3123-0005	Battery Pack for Model FT-2145/TI-1055/TL-2055 Test Lamps

27. Series FSL100 Flame Detectors





The new FSL100 series is the latest generation range of Mid market Flame Detectors from Honeywell Analytics. The range consists of UV, UVIR and IR3 flame detectors. All utilize sophisticated sensing and signal analysis to detect fires quickly while also rejecting false alarms. The FSL100 may be small and lightweight for easy installation but they are designed to work in tough environments both in and out of doors as well as potentially explosive atmospheres. With a large field of view they can detect a range of different types of fire including hydrocarbon and non hydrocarbon sources.

Note: A swivel mount should be ordered with each Flame Detector.

27.1 UV (Ultraviolet) Flame Detector

UV (Ultraviolet) Flame Detector	
Part Number	Description
FSL100-UV	UV flame detector. Suitable for ATEX zone 2/22; FM 3611 Class 1,2&3 Div2
	EN54-10 (HIGH sensitivity) certificate. FM3260 approval. Red Housing
FSL100-UV-W	UV flame detector. Suitable for ATEX zone 2/22; FM 3611 Class 1,2&3 Div2
	EN54-10 (HIGH sensitivity) certificate FM3260 approval. White Housing.

27.2 UVIR (Ultraviolet & Infrared) Flame Detector

UVIR (Ultraviolet & Infrared) Flame Detector	
Part Number	Description
FSL100-UVIR	UV/IR flame detector. Suitable for ATEX zone 2/22; FM 3611 Class 1,2&3 Div2
	EN54-10 (HIGH sensitivity) certificate. FM3260 approval. Red Housing.
FSL100-UVIR-W	UV/IR flame detector. Suitable for ATEX zone 2/22; FM 3611 Class 1,2&3 Div2
	EN54-10 (HIGH sensitivity) certificate FM3260 approval. White Housing.

27.3 IR3 (3 Infrared bands) Flame Detector

IR3 (3 Infrared bands) Flame Detector		
Part Number Description		
FSL100-IR3	Triple IR flame detector. Suitable for ATEX zone 2/22; FM 3611 Class 1,2&3 Div2	
	EN54-10 (HIGH sensitivity) certificate. FM3260 approval. Red Housing.	
FSL100-IR3-W	Triple IR flame detector. Suitable for ATEX zone 2/22; FM 3611 Class 1,2&3 Div2	
	EN54-10 (HIGH sensitivity) certificate. FM3260 approval. White Housing.	

27.4 Accessories

Accessories	
Part Number	Description
FSL100-SM21	FSL100 Optional swivel mount
FSL100-TL	FSL100 test lamp, incl. universal charger and carrying case; non EX
FSL100-TLX	FSL100 test lamp, incl. carrying case; intrinsically safe (Pending *)
d. = 1	

^{*} Please contact Honeywell representative

27.5 Spare Parts

Accessories	
Part Number	Description
FSL100-TLBT	12 Vdc battery for FSL-TL test lamp
FSL100-TLBU	H3 light bulb for FSL-TL test lamp
FSL100-TLCH	Universal charger kit for FSL-TL test lamp

28. RAEGuard 2 PID Transmitter





RAEGuard 2 PID

The RAEGuard 2 PID is a fixed photoionisation detector (PID) that measures a broad range of volatile organic compounds (VOCs).

The RAEGuard 2 PID operates on 10 to 28 VDC and provides an analog (4-20mA) three-wire signal output, and RS-485 Modbus digital signal output.

Calibration and maintenance have been greatly simplified as the digital PID sensor module can be easily removed in hazardous locations without tools for calibration or maintenance.

Ships with calibration certificate. Sensor lifespan - 2 years. Warranty - 2 years on lamp; 1 year on sensor, electronics, and pump.

28.1 INSTRUMENT RAEGuard 2 PID

All kits include: RAEGuard 2 PID fixed head. DigiPID sensor module, magnetic key, hex service tool, 5 pack of external water trap filters, user manual.

Kits	
Part Number	Description
H-D03-0009-000	Kit, RAEGuard 2 PID, UL, 0.01 – 100 ppm isobutylene equivalent
H-D03-0004-000	Kit, RAEGuard 2 PID, ATEX/IECEx, 0.01 – 100 ppm isobutylene equivalent
H-D03-0010-000	Kit, RAEGuard 2 PID, UL, 0.1 – 1000 ppm isobutylene equivalent
H-D03-0005-000	Kit, RAEGuard 2 PID, ATEX/IECEx, 0.1 – 1000 ppm isobutylene equivalent
H-D03-0012-000	Kit, RAEGuard 2 PID, UL, 1 – 1000 ppm isobutylene equivalent
	Note: Correction factors and relays are not available for this detection range
H-D03-0008-000	Kit, RAEGuard 2 PID, ATEX/IECEx, 1 – 1000 ppm isobutylene equivalent
	Note: Correction factors and relays are not available for this detection range

28.2 Accessories

Accessories	
Part Number	Description
D03-3018-005	Rain guard, filter assembly
081-0018-C00	Pre-air drying humidity filter kit
490-0163-000	Water collecting, coalescing filter, glass and steel

28. RAEGuard 2 PID Transmitter



28.3 Consumables

Consumables	
Part Number	Description
C01-2034-005	DigiPID internal dust filter (Pack of 5)
490-0011-005	DigiPID external water trap filter (Pack of 5)
C01-2017-010	DigiPID Teflon UV electrode shield (Pack of 10)
050-0000-004	DigiPID lamp, 10.6 ev, 1/2"
490-0164-010	Filter replacements (Pack of 10) for 490-0163-000

28.4 Spares

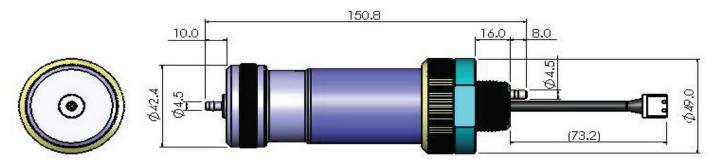
Spares		
Part Number	Description	
D03-0013-000	RAEGuard 2 Fixed Head - UL (No Sensor module)	
	(Includes RAEGuard 2 fixed head, ATEX safety barrier magnetic key, hex service tool,	
C01-0001-000	DigiPID sensor module, ATEX/IECEx/UL, 0.01 - 100 ppm isobutylene equivalent	
C01-0002-000	DigiPID sensor module, ATEX/IECEx/UL, 0.1 - 1000 ppm isobutylene equivalent	
C01-0004-000	DigiPID sensor module, ATEX/IECEx/UL, 1 - 1000 ppm isobutylene equivalent	
	*Note: Correction factors and relays are not available for this detection range	
D03-2006-102	Mesh screws for use in RAEGuard safety barrier adapter UL (pack of 2)	
C01-3007-100	DigiPID replacement Sensor Kit - Teflon construction with 3 electrodes	
C01-3007-200	DigiPID replacement sensor kit with stainless steel UV shield	
C01-3012-000	DigiPID flowthough adapter - Stainless steel	
	(included standard with all DigiPID sensor modules)	
D03-3002-000	Pump Assy, RAEGuard 2 PID	
0310-2021	Tubing, Tygon, FEP lined, 1/4 OD by 1/8 ID (Price per Foot)	

28. RAEGuard 2 PID Transmitter



28.5 Gas Test Equipment

Spares			
Part Number Description			
600-0069-000	Isobutylene, 10 ppm (balance air), 34 liter cylinder, Male threads on cyl, CGA-600 Reg		
600-0001-000	Isobutylene, 50 ppm (balance air), 34 liter cylinder, Male threads on cyl, CGA-600 Reg		
600-0002-000	Isobutylene, 100 ppm (balance air), 34 liter cylinder, Male threads on cyl, CGA-600 Reg		
600-0002-001	Isobutylene, 100 ppm, 103 liter cylinder (58 liter regulator), C-10 Reg		
600-0024-000	Dry Air, 0 ppm, 34 liter cylinder, CGA-600 Reg		
600-0051-000	Hydrogen Sulfide, 10 ppm H2S (balance N2), 58 liter cylinder, C-10 Reg		
600-0052-000	Carbon Monoxide, 50 ppm CO (balance air), 34 liter cylinder, CGA-600 Reg		
600-0053-000	Sulfur Dioxide, 5 ppm SO2 (balance N2), 58 liter cylinder, C-10 Reg		
600-0061-000	Oxygen, 20.9% (balance N2), 34 liter cylinder, CGA-600 Reg		
600-0061-001	Oxygen, 19% (balance N2), 34 liter cylinder, CGA-600 Reg		
600-0062-000	Nitrogen, 100% N2, 34 liter cylinder, CGA-600 Reg		
600-0063-000	Benzene, 5 ppm (balance air), 34 liter cylinder, CGA-600 Reg		
600-0088-000	Butadiene, 5 ppm (balance air), 34 liter cylinder, CGA-600 Reg		
600-0070-000	LEL Pentane, 25% (balance air), 34 liter cylinder, CGA-600 Reg		
600-0071-000	LEL Methane, 50% (balance air), 34 liter cylinder, CGA-600 Reg		
600-0137-000	Methane, 20% (balance N2), 34 liter cylinder, CGA-600 Reg		
600-0071-020	LEL Methane, 20% (balance air), 34 liter cylinder, CGA-600 Reg		
002-3011-000	Constant-flow regulator, 0.5 liter/min (Female threaded regulator: for use with 34 liter steel cylinder only), CGA-		
	600 Reg		
007-3021-000	Constant-flow regulator, 1 liter/min (Male threaded regulator: for use with 34 liter aluminum cylinder and all 58,		
	C-10 Reg		
500-0034-000	Calibration Kit case (no gas or regulator) holds two 34 or 58 liter cylinders		



DigiPID Replacement Sensor Module

29. Gas Detection Controllers

Quick Reference Chart

Honeywell Analytics offers a family of gas detection controllers that monitor 1, 2, 4, 8, 16, or 64 points of gas detection. Our digital gas controllers are designed to work in the harshest industrial environments.

Product	Max. # of Points	Certification	Configurations	Communication
Touchpoint Plus (TPPL)	16 inputs, 48 outputs	UL CSA ATEX FM	Wall Mount	4-20 mA Modbus (RTU & TCP) RS-485 Ethernet Configurable Relays
Touchpoint Pro (TPPR)	64 inputs, 128 outputs	UL CSA ATEX FM	Rack Mount Wall Mount Floor standing cabinet	4-20 mA Modbus (RTU & TCP) RS-485 Ethernet Configurable Relays
HA20	2 inputs, 8 outputs	Class I, Div. 2 NEMA 4X NEMA 7X	Wall Mount	4-20 Ma 2 Relays Standard 6 Additional Relays Optional
HA40	4 inputs, 8 outputs	Class I, Div. 2 NEMA 4X NEMA 7X	Wall Mount	4-20 mA Modbus 2 Relays Standard 6 Additional Relays Optional
HA71	16 inputs, 48 outputs	Class I, Div. 2 NEMA 4X NEMA 7X	Rack Mount Panel Mount Wall Mount	RS-485 Modbus 4-20 mA Configurable Relays
HA72	64 inputs, 128 outputs	Class I, Div. 2 NEMA 4X	Rack Mount Panel Mount Wall Mount	Ethernet RS-485 Modbus 4-20 mA Configurable Relays
XNX-IR (controller/repeater)	1 channel	Class I, Div. 1	Wall Mount	Modbus 4-20 mA HART Fieldbus Configurable Relays
Unipoint	1 input	Safe Area	DIN Rail	4 Relays
System 57	60 Fire OR 64 Gas Detection per rack	Safe Area	Rack Mount Wall Mount	Modbus RS-485/422 4-20 mA Configurable Relays

Systems no longer available. Spares only.



The Touchpoint Pro Gas Control System is a safe area, modular flame/gas detection control system.

Any Touchpoint Pro gas control system can be built from just four main building blocks:

Central Controller with color LCD touch screen user interface, PCBs and SD card Input and Output (I/O) Modules

Communication / Power Rail
Power Supply Units

All four blocks can be mounted easily in 19" racks, wall mount enclosures or floor standing cabinets. Ideal for centralised and distributed system and designed for ease of expansion. The Touchpoint Pro controller can also be used standalone or integrated into a gas and fire system packaged.

Touchpoint Pro is an intelligent controller that accepts inputs from flammable and toxic gas detectors and output devices like strobes or valves.

Available outputs include relays and industry standard digital protocols. Easy plug-in Input Module types are Analogue Input Module mV Bridge, Analogue Input Module 4-20mA and Digital Input Module. Available output module types are Relay Output Modules.

The Touchpoint Pro system is easy to install and to configure. The channels can be configured by using the touch screen user interface or optional TPPR PC Configuration Software. A preloaded Sensor Catalog includes all relevant parameters of the Honeywell Analytics' devices. Only three parameters must be programmed and the rest will be loaded automatically.

Approvals:

- •Compliance with EMC/RFI (EN 50270:2006) and LVD (EN 61010-1:2010) CSA-C22.2 No. 61010-1-04, UL Std. No. 61010-1 (2nd Edition)
- •ATEX Performance Approvals EN 50271:2010; EN 60079-29-1; EN 45544-1 /-2 /-3; EN 50104:2010 C22.2 No. 152-M1984, FM Std. 6310 and 6320
- •IEC/EN 61508 and EN 50402 SIL2 certification







30.1 Cabinet Controllers (for Green Field Sites)

Use the TPPR Control System Configurators and build your system.

To configure a Touchpoint Pro cabinet system please select:

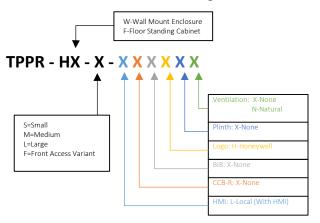
- 1. Enclosure; Use Configurators Below to Build Part Number 30.2
- 3. Input and Output (I/O) Modules & Communication / Power Rail 30.3
- 2. Power Supply Units (PSU) 30.4

For example, the part numbers for Wall Mount Controller with 10 Way Communications/Power Rail 10A Power Supply Unit and equipped with three Analogue Input Modules mV-Bridge and three Rela Output Modules.

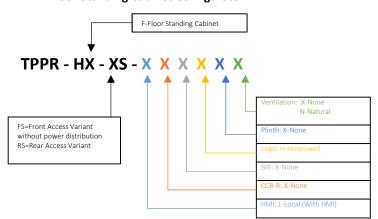


- •TPPR-HW-S-LXXHXX
- •TPPR-W-010-1
- •TPPR-M-AAANNNXXXX-DX

Wall Mounted Cabinet Configurator



Floor Standing Cabinet Configurator



30.2 TPPR Enclosure Combinations - TPPR-H-Enclosures

30.2.1 TPPR-H-Wall Mount Enclosure

TPPR-H Small Wall Mount Enclosures		
Part Number	Description	
TPPR-HW-S-LXXHXX	Wall Mount Controller 600Hx600Wx300D includes HMI, PCBs, SD Card	
TPPR-HW-S-LRXHXX	Wall Mount Controller 600Hx600Wx300D includes HMI, PCBs, SD Card, Redundant	
	Control Centre Board	
TPPR-HW-S-LXMHXX	Wall Mount Controller 600Hx600Wx300D includes HMI, PCBs, SD Card, Modbus®	
	Interface Board	
TPPR-HW-S-LRMHXX	Wall Mount Controller 600Hx600Wx300D includes HMI, PCBs, SD Card, Redundant	
	Control Centre Board, Modbus® Interface Board	
TPPR-HW-S-LXXXXX	Wall Mount Controller 600Hx600Wx300D includes HMI, PCBs, SD Card, w/o HON Logo	
TPPR-HW-S-LRXXXX	Wall Mount Controller 600Hx600Wx300D includes HMI, PCBs, SD Card, Redundant	
	Control Centre Board, w/o HON Logo	
TPPR-HW-S-LXMXXX	Wall Mount Controller 600Hx600Wx300D includes HMI, PCBs, SD Card, Modbus®	
	Interface Board, w/o HON Logo	



TPPR-HW-S-LRMXXX	Wall Mount Controller 600Hx600Wx300D includes HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, w/o HON Logo	
TPPR-HW-S-RXXHXX	Wall Mount Remote Unit 600Hx600Wx300D w/o HMI, PCBs, SD Card	
TPPR-HW-S-RXXXXX	Wall Mount Remote Unit 600Hx600Wx300D w/o HMI, PCBs, SD Card, w/o HON Logo	

TPPR-H Medium Wall Mount Enclosures		
Part Number	Description	
TPPR-HW-M-LXXHXX	Wall Mount Controller 800Hx600Wx300D includes HMI, PCBs, SD Card	
TPPR-HW-M-LRXHXX	Wall Mount Controller 800Hx600Wx300D includes HMI, PCBs, SD Card, Redundant	
	Control Centre Board	
TPPR-HW-M-LXMHXX	Wall Mount Controller 800Hx600Wx300D includes HMI, PCBs, SD Card, Modbus®	
	Interface Board	
TPPR-HW-M-LRMHXX	Wall Mount Controller 800Hx600Wx300D includes HMI, PCBs, SD Card, Redundant	
	Control Centre Board, Modbus® Interface Board	
TPPR-HW-M-LXXXXX	Wall Mount Controller 800Hx600Wx300D includes HMI, PCBs, SD Card, w/o HON Logo	
TPPR-HW-M-LRXXXX	Wall Mount Controller 800Hx600Wx300D includes HMI, PCBs, SD Card, Redundant	
	Control Centre Board, w/o HON Logo	
TPPR-HW-M-LXMXXX	Wall Mount Controller 800Hx600Wx300D includes HMI, PCBs, SD Card, Modbus®	
	Interface Board, w/o HON Logo	
TPPR-HW-M-LRMXXX	Wall Mount Controller 800Hx600Wx300D includes HMI, PCBs, SD Card, Redundant	
	Control Centre Board, Modbus® Interface Board, w/o HON Logo	
TPPR-HW-M-RXXHXX	Wall Mount Remote Unit 800Hx600Wx300D w/o HMI, PCBs, SD Card	
TPPR-HW-M-RXXXXX	Wall Mount Remote Unit 800Hx600Wx300D w/o HMI, PCBs, SD Card, w/o HON Logo	

TPPR-H Large Wall Mo	ount Enclosures
Part Number	Description
TPPR-HW-L-LXXHXX	Wall Mount Controller 1200Hx800Wx300D includes HMI, PCBs, SD Card
TPPR-HW-L-LRXHXX	Wall Mount Controller 1200Hx800Wx300D includes HMI, PCBs, SD Card, Redundant
	Control Centre Board
TPPR-HW-L-LXMHXX	Wall Mount Controller 1200Hx800Wx300D includes HMI, PCBs, SD Card, Modbus®
	Interface Board
TPPR-HW-L-LRMHXX	Wall Mount Controller 1200Hx800Wx300D includes HMI, PCBs, SD Card, Redundant
	Control Centre Board, Modbus® Interface Board
TPPR-HW-L-LXXXXX	Wall Mount Controller 1200Hx800Wx300D includes HMI, PCBs, SD Card, w/o HON Logo
TPPR-HW-L-LRXXXX	Wall Mount Controller 1200Hx800Wx300D includes HMI, PCBs, SD Card, Redundant
	Control Centre Board, w/o HON Logo
TPPR-HW-L-LXMXXX	Wall Mount Controller 1200Hx800Wx300D includes HMI, PCBs, SD Card, Modbus®
	Interface Board, w/o HON Logo
TPPR-HW-L-LRMXXX	Wall Mount Controller 1200Hx800Wx300D includes HMI, PCBs, SD Card, Redundant
	Control Centre Board, Modbus® Interface Board, w/o HON Logo

TPPR-Z Wall Mount Re	emote Unit Stainless Steel Div2/Zone2
Part Number	Description
TPPR-Z-Div2Z2-SM-H	Wall Mount Remote Unit Stainless Steel Div2/Zone2 780Hx510Wx300D w/o HMI, PCBs,
	SD Card, 9 Way Communication Power Rail
TPPR-Z-Div2Z2-SM-X	Wall Mount Remote Unit Stainless Steel Div2/Zone2 780Hx510Wx300D w/o HMI, PCBs,
	SD Card, w/o HON Logo, 9 Way Communication Power Rail



30.2.2 TPPR-H-Floor Standing Cabinets

TPPR-H Floor Standing Cabinets - Front Access

Without ventilation, v	without plinth
Part Number	Description Description
TPPR-HF-F-LXXHXX	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
	HMI, PCBs, SD Card, w/o ventilation
TPPR-HF-F-LRXHXX	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
	HMI, PCBs, SD Card, Redundant Control Centre Board, w/o ventilation
TPPR-HF-F-LXMHXX	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
	HMI, PCBs, SD Card, Modbus® Interface Board, w/o ventilation
TPPR-HF-F-LRMHXX	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
	HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, w/o
TPPR-HF-F-LXXXXX	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
	HMI, PCBs, SD Card, w/o HON Logo, w/o ventilation
TPPR-HF-F-LRXXXX	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
	HMI, PCBs, SD Card, Redundant Control Centre Board, w/o HON Logo, w/o ventilation
TPPR-HF-F-LXMXXX	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
	HMI, PCBs, SD Card, Modbus® Interface Board, w/o HON Logo, w/o ventilation
TPPR-HF-F-LRMXXX	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
	HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, w/o HON
	Logo, w/o ventilation
Without ventilation, v	without plinth, without power distribution
Part Number	Description
TPPR-HF-FS-LXXHXX	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
	HMI, PCBs, SD Card, w/o ventilation, w/o power distribution
TPPR-HF-FS-LRXHXX	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
	HMI, PCBs, SD Card, Redundant Control Centre Board, w/o ventilation, w/o power
TDDD LIE EC LVAALIVA	distribution
TPPR-HF-FS-LXMHXX	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
	HMI, PCBs, SD Card, Modbus® Interface Board, w/o ventilation, w/o power distribution
TPPR-HF-FS-LRMHXX	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
111111111111111111111111111111111111111	HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, w/o
	ventilation, w/o power distribution
TPPR-HF-FS-LXXXXX	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
	HMI, PCBs, SD Card, w/o HON Logo, w/o ventilation, w/o power distribution
TPPR-HF-FS-LRXXXX	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
	HMI, PCBs, SD Card, Redundant Control Centre Board, w/o HON Logo, w/o ventilation,
	w/o power distribution
TPPR-HF-FS-LXMXXX	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
	HMI, PCBs, SD Card, Modbus® Interface Board, w/o HON Logo, w/o ventilation, w/o power
TDDD HE EC LDM (1994	distribution
TPPR-HF-FS-LRMXXX	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
	HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, w/o HON
	Logo, w/o ventilation, w/o power distribution



Without Ventilation a	nd with plinth
Part Number	Description
TPPR-HF-F-LXXHPX	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
	HMI, PCBs, SD Card, with 100mm plinth, w/o ventilation
TPPR-HF-F-LRXHPX	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
	HMI, PCBs, SD Card, Redundant Control Centre Board, with 100mm plinth, w/o ventilation
TPPR-HF-F-LXMHPX	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
	HMI, PCBs, SD Card, Modbus® Interface Board, with 100mm plinth, w/o ventilation
TPPR-HF-F-LRMHPX	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
	HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, with
	100mm plinth, w/o ventilation
TPPR-HF-F-LXXXPX	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
	HMI, PCBs, SD Card, w/o HON Logo, with 100mm plinth, w/o ventilation
TPPR-HF-F-LRXXPX	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
	HMI, PCBs, SD Card, Redundant Control Centre Board, with 100mm plinth, w/o HON Logo,
	w/o ventilation
TPPR-HF-F-LXMXPX	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
	HMI, PCBs, SD Card, Modbus® Interface Board, with 100mm plinth, w/o HON Logo, w/o
TPPR-HF-F-LRMXPX	ventilation Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
TELLI-LI-FUNINEN	HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, with
	100mm plinth, w/o HON Logo, w/o ventilation
	Toomin pinter, we now 2080, we ventuation
Without ventilation, v	with plinth, without power distribution
Part Number	Description
TPPR-HF-FS-LXXHPX	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
	HMI, PCBs, SD Card, with 100mm plinth, w/o ventilation, w/o power distribution
TPPR-HF-FS-LRXHPX	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
	HMI, PCBs, SD Card, Redundant Control Centre Board, with 100mm plinth, w/o
	ventilation, w/o power distribution
TPPR-HF-FS-LXMHPX	
	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, with 100mm plinth, w/o ventilation, w/o
TODO LIE EC LONALIDA	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, with 100mm plinth, w/o ventilation, w/o power distribution
TPPR-HF-FS-LRMHPX	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, with 100mm plinth, w/o ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
TPPR-HF-FS-LRMHPX	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, with 100mm plinth, w/o ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, with
TPPR-HF-FS-LRMHPX	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, with 100mm plinth, w/o ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, with 100mm plinth, w/o ventilation, w/o power distribution
	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, with 100mm plinth, w/o ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, with 100mm plinth, w/o ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, with 100mm plinth, w/o ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, with 100mm plinth, w/o ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, w/o HON Logo, with 100mm plinth, w/o ventilation, w/o power
TPPR-HF-FS-LXXXPX TPPR-HF-FS-LXXXPX	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, with 100mm plinth, w/o ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, with 100mm plinth, w/o ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
TPPR-HF-FS-LXXXPX	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, with 100mm plinth, w/o ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, with 100mm plinth, w/o ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, w/o HON Logo, with 100mm plinth, w/o ventilation, w/o power distribution
TPPR-HF-FS-LXXXPX	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, with 100mm plinth, w/o ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, with 100mm plinth, w/o ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, w/o HON Logo, with 100mm plinth, w/o ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, with 100mm plinth, w/o HON Logo, w/o ventilation, w/o power distribution
TPPR-HF-FS-LXXXPX TPPR-HF-FS-LRXXPX	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, with 100mm plinth, w/o ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, with 100mm plinth, w/o ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, w/o HON Logo, with 100mm plinth, w/o ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, with 100mm plinth, w/o HON Logo, w/o ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
TPPR-HF-FS-LXXXPX TPPR-HF-FS-LRXXPX	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, with 100mm plinth, w/o ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, with 100mm plinth, w/o ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, w/o HON Logo, with 100mm plinth, w/o ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, with 100mm plinth, w/o HON Logo, w/o ventilation, w/o power distribution
TPPR-HF-FS-LXXXPX TPPR-HF-FS-LRXXPX TPPR-HF-FS-LXMXPX	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, with 100mm plinth, w/o ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, with 100mm plinth, w/o ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, w/o HON Logo, with 100mm plinth, w/o ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, with 100mm plinth, w/o HON Logo, w/o ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, with 100mm plinth, w/o HON Logo, w/o ventilation, w/o power distribution
TPPR-HF-FS-LXXXPX TPPR-HF-FS-LRXXPX TPPR-HF-FS-LXMXPX	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, with 100mm plinth, w/o ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, with 100mm plinth, w/o ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, w/o HON Logo, with 100mm plinth, w/o ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, with 100mm plinth, w/o HON Logo, w/o ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, with 100mm plinth, w/o HON Logo, w/o ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
TPPR-HF-FS-LXXXPX	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, with 100mm plinth, w/o ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, with 100mm plinth, w/o ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, w/o HON Logo, with 100mm plinth, w/o ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, with 100mm plinth, w/o HON Logo, w/o ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, with 100mm plinth, w/o HON Logo, w/o ventilation, w/o power distribution



Natural Ventilation a	nd without plinth
Part Number	Description
TPPR-HF-F-LXXHXN	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
	HMI, PCBs, SD Card, natural ventilation
TPPR-HF-F-LRXHXN	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
	HMI, PCBs, SD Card, Redundant Control Centre Board, natural ventilation
TPPR-HF-F-LXMHXN	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
	HMI, PCBs, SD Card, Modbus® Interface Board, natural ventilation
TPPR-HF-F-LRMHXN	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
	HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, natural
	ventilation
TPPR-HF-F-LXXXXN	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
	HMI, PCBs, SD Card, w/o HON Logo, natural ventilation
TPPR-HF-F-LRXXXN	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
	HMI, PCBs, SD Card, Redundant Control Centre Board, w/o HON Logo, natural ventilation
TPPR-HF-F-LXMXXN	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
	HMI, PCBs, SD Card, Modbus® Interface Board, w/o HON Logo, natural ventilation
TPPR-HF-F-LRMXXN	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
	HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, w/o HON
	Logo, natural ventilation

Natural ventilation, w	ithout plinth, without power distribution
Part Number	Description
TPPR-HF-FS-LXXHXN	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
	HMI, PCBs, SD Card, natural ventilation, w/o power distribution
TPPR-HF-FS-LRXHXN	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
	HMI, PCBs, SD Card, Redundant Control Centre Board, natural ventilation, w/o power
	distribution
TPPR-HF-FS-LXMHXN	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
	HMI, PCBs, SD Card, Modbus® Interface Board, natural ventilation, w/o power distribution
TPPR-HF-FS-LRMHXN	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
	HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, natural
	ventilation, w/o power distribution
TPPR-HF-FS-LXXXXN	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
	HMI, PCBs, SD Card, w/o HON Logo, natural ventilation, w/o power distribution
TPPR-HF-FS-LRXXXN	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
	HMI, PCBs, SD Card, Redundant Control Centre Board, w/o HON Logo, natural ventilation,
	w/o power distribution
TPPR-HF-FS-LXMXXN	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
	HMI, PCBs, SD Card, Modbus® Interface Board, w/o HON Logo, natural ventilation, w/o
	power distribution
TPPR-HF-FS-LRMXXN	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
	HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, w/o HON
	Logo, natural ventilation, w/o power distribution



Natural ventilation, w	vith plinth
Part Number	Description
TPPR-HF-F-LXXHPN	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
	HMI, PCBs, SD Card, with 100mm plinth, natural ventilation
TPPR-HF-F-LRXHPN	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
	HMI, PCBs, SD Card, Redundant Control Centre Board, with 100mm plinth, natural
	ventilation
TPPR-HF-F-LXMHPN	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
	HMI, PCBs, SD Card, Modbus® Interface Board, with 100mm plinth, natural ventilation
TPPR-HF-F-LRMHPN	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
	HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, with
	100mm plinth, natural ventilation
TPPR-HF-F-LXXXPN	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
	HMI, PCBs, SD Card, w/o HON Logo, with 100mm plinth, natural ventilation
TPPR-HF-F-LRXXPN	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
	HMI, PCBs, SD Card, Redundant Control Centre Board, with 100mm plinth, w/o HON Logo, natural ventilation
TPPR-HF-F-LXMXPN	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
	HMI, PCBs, SD Card, Modbus® Interface Board, with 100mm plinth, w/o HON Logo, natural
	ventilation
TPPR-HF-F-LRMXPN	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
	HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, with
	100mm plinth, w/o HON Logo, natural ventilation
Notural ventilation	ish ulinsh/a mannau diasuih.usiam
Part Number	vith plinth, w/o power distribution Description
TPPR-HF-FS-LXXHPN	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
TITICIII 13 EXXIII N	HMI, PCBs, SD Card, with 100mm plinth, natural ventilation, w/o power distribution
TDDD UE EC LDVUDNI	<u> </u>
TPPR-HF-FS-LRXHPN	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
TDDD 115 50 13/4 41/DM	HMI, PCBs, SD Card, Redundant Control Centre Board, with 100mm plinth, natural
TPPR-HF-FS-LXMHPN	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
	HMI, PCBs, SD Card, Modbus® Interface Board, with 100mm plinth, natural ventilation,
TPPR-HF-FS-LRMHPN	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
	HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, with
TPPR-HF-FS-LXXXPN	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
	HMI, PCBs, SD Card, w/o HON Logo, with 100mm plinth, natural ventilation, w/o power
TPPR-HF-FS-LRXXPN	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
	HMI, PCBs, SD Card, Redundant Control Centre Board, with 100mm plinth, w/o HON Logo,
TPPR-HF-FS-LXMXPN	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
	HMI, PCBs, SD Card, Modbus® Interface Board, with 100mm plinth, w/o HON Logo, natural
TPPR-HF-FS-LRMXPN	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
	HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, with



Forced ventilation, wi Part Number	Description
TPPR-HF-F-LXXHXF	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
TITICIII I EXXIIXI	HMI, PCBs, SD Card, forced ventilation
TPPR-HF-F-LRXHXF	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
TITICIII I EIOXIIXI	HMI, PCBs, SD Card, Redundant Control Centre Board, forced ventilation
TPPR-HF-F-LXMHXF	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
TEFIC-TH -1 -LAWITIAL	HMI, PCBs, SD Card, Modbus® Interface Board, forced ventilation
TPPR-HF-F-LRMHXF	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
IFFN-IIF-F-LNIVIIIAF	HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, forced
	ventilation
TPPR-HF-F-LXXXXF	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
2,000	HMI, PCBs, SD Card, w/o HON Logo, forced ventilation
TPPR-HF-F-LRXXXF	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
111111111111111111111111111111111111111	HMI, PCBs, SD Card, Redundant Control Centre Board, w/o HON Logo, forced ventilation
TPPR-HF-F-LXMXXF	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
IFFR-IIF-F-LAIVIAAF	HMI, PCBs, SD Card, Modbus® Interface Board, w/o HON Logo, forced ventilation
TODO LIE E LOMANYE	
TPPR-HF-F-LRMXXF	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
	HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, w/o HON
	Logo, forced ventilation
Forced ventilation. w	ithout plinth, without power distribution
Part Number	Description
	•
	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
TPPR-HF-FS-LXXHXF	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, forced ventilation, w/o power distribution
TPPR-HF-FS-LXXHXF	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, forced ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
TPPR-HF-FS-LXXHXF	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, forced ventilation, w/o power distribution
TPPR-HF-FS-LXXHXF TPPR-HF-FS-LRXHXF	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, forced ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, forced ventilation, w/o power
TPPR-HF-FS-LXXHXF TPPR-HF-FS-LRXHXF	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, forced ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, forced ventilation, w/o power distribution
TPPR-HF-FS-LXXHXF TPPR-HF-FS-LRXHXF TPPR-HF-FS-LXMHXF	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, forced ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, forced ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, forced ventilation, w/o power distribution
TPPR-HF-FS-LXXHXF TPPR-HF-FS-LRXHXF TPPR-HF-FS-LXMHXF	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, forced ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, forced ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, forced ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
TPPR-HF-FS-LXXHXF TPPR-HF-FS-LRXHXF TPPR-HF-FS-LXMHXF	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, forced ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, forced ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, forced ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, forced
TPPR-HF-FS-LXXHXF TPPR-HF-FS-LRXHXF TPPR-HF-FS-LXMHXF TPPR-HF-FS-LRMHXF	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, forced ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, forced ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, forced ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, forced ventilation, w/o power distribution
TPPR-HF-FS-LXXHXF TPPR-HF-FS-LXMHXF TPPR-HF-FS-LXMHXF	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, forced ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, forced ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, forced ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, forced
TPPR-HF-FS-LXXHXF TPPR-HF-FS-LXMHXF TPPR-HF-FS-LXMHXF TPPR-HF-FS-LXXXXF	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, forced ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, forced ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, forced ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, forced ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, w/o HON Logo, forced ventilation, w/o power distribution
TPPR-HF-FS-LXXHXF TPPR-HF-FS-LXMHXF TPPR-HF-FS-LRMHXF TPPR-HF-FS-LXXXXF	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, forced ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, forced ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, forced ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, forced ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, w/o HON Logo, forced ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
TPPR-HF-FS-LXXHXF TPPR-HF-FS-LXMHXF TPPR-HF-FS-LRMHXF TPPR-HF-FS-LXXXXF	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, forced ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, forced ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, forced ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, forced ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, w/o HON Logo, forced ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, w/o HON Logo, forced ventilation,
TPPR-HF-FS-LXXXF TPPR-HF-FS-LXMHXF TPPR-HF-FS-LXMHXF TPPR-HF-FS-LXXXXF TPPR-HF-FS-LXXXXF	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, forced ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, forced ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, forced ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, forced ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, w/o HON Logo, forced ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, w/o HON Logo, forced ventilation, w/o power distribution
TPPR-HF-FS-LXXHXF TPPR-HF-FS-LXMHXF TPPR-HF-FS-LXMHXF TPPR-HF-FS-LXXXXF	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, forced ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, forced ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, forced ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, forced ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, w/o HON Logo, forced ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, w/o HON Logo, forced ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, w/o HON Logo, forced ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
TPPR-HF-FS-LXXHXF TPPR-HF-FS-LXMHXF TPPR-HF-FS-LXMHXF TPPR-HF-FS-LXXXXF	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, forced ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, forced ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, forced ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, forced ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, w/o HON Logo, forced ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, w/o HON Logo, forced ventilation, w/o power distribution
TPPR-HF-FS-LXXHXF TPPR-HF-FS-LXMHXF TPPR-HF-FS-LXMHXF TPPR-HF-FS-LXXXXF	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, forced ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, forced ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, forced ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, forced ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, w/o HON Logo, forced ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, w/o HON Logo, forced ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, w/o HON Logo, forced ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, w/o HON Logo, forced ventilation, w/o
TPPR-HF-FS-LXXHXF TPPR-HF-FS-LXMHXF TPPR-HF-FS-LXMHXF TPPR-HF-FS-LXXXXF TPPR-HF-FS-LXXXXF	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, forced ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, forced ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, forced ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, forced ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, w/o HON Logo, forced ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, w/o HON Logo, forced ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, w/o HON Logo, forced ventilation, w/o power distribution



Forced Ventilation an	d with plinth
Part Number	Description
TPPR-HF-F-LXXHPF	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
	HMI, PCBs, SD Card, with 100mm plinth, forced ventilation
TPPR-HF-F-LRXHPF	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
	HMI, PCBs, SD Card, Redundant Control Centre Board, with 100mm plinth, forced
	ventilation
TPPR-HF-F-LXMHPF	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
	HMI, PCBs, SD Card, Modbus® Interface Board, with 100mm plinth, forced ventilation
TPPR-HF-F-LRMHPF	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
	HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, with
	100mm plinth, forced ventilation
TPPR-HF-F-LXXXPF	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
	HMI, PCBs, SD Card, w/o HON Logo, with 100mm plinth, forced ventilation
TPPR-HF-F-LRXXPF	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
	HMI, PCBs, SD Card, Redundant Control Centre Board, with 100mm plinth, w/o HON Logo,
	forced ventilation
TPPR-HF-F-LXMXPF	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
	HMI, PCBs, SD Card, Modbus® Interface Board, with 100mm plinth, w/o HON Logo, forced
	ventilation
TPPR-HF-F-LRMXPF	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
	HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, with
	100mm plinth, w/o HON Logo, forced ventilation
Farmed contiletion	
Part Number	ith plinth, without power distribution Description
TPPR-HF-FS-LXXHPF	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
TITICIII 13 DOMINI	HMI, PCBs, SD Card, with 100mm plinth, forced ventilation, w/o power distribution
TDDD HE EC LOVIDE	
TPPR-HF-FS-LRXHPF	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
	HMI, PCBs, SD Card, Redundant Control Centre Board, with 100mm plinth, forced
TPPR-HF-FS-LXMHPF	ventilation, w/o power distribution Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
TEFR-III-I J-LXIVIIIFI	HMI, PCBs, SD Card, Modbus® Interface Board, with 100mm plinth, forced ventilation,
	w/o power distribution
TPPR-HF-FS-LRMHPF	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
	HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, with
	100mm plinth, forced ventilation, w/o power distribution
TPPR-HF-FS-LXXXPF	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
	HMI, PCBs, SD Card, w/o HON Logo, with 100mm plinth, forced ventilation, w/o power
	distribution
TPPR-HF-FS-LRXXPF	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
	HMI, PCBs, SD Card, Redundant Control Centre Board, with 100mm plinth, w/o HON Logo,
	forced ventilation, w/o power distribution
TPPR-HF-FS-LXMXPF	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
	HMI, PCBs, SD Card, Modbus® Interface Board, with 100mm plinth, w/o HON Logo, forced
	ventilation, w/o power distribution
TPPR-HF-FS-LRMXPF	Floor Standing Cabinet with Front Access 2000Hx800Wx600D includes Controller with
	HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, with
	100mm plinth, w/o HON Logo, forced ventilation, w/o power distribution



TPPR-H Floor Standing Cabinets - Rear Access

Part Number	Description	
TPPR-HF-R-LXXHXX	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,	
	PCBs, SD Card, w/o ventilation	
TPPR-HF-R-LRXHXX	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,	
	PCBs, SD Card, Redundant Control Centre Board, w/o ventilation	
TPPR-HF-R-LXMHXX	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,	
	PCBs, SD Card, Modbus® Interface Board, w/o ventilation	
TPPR-HF-R-LRMHXX	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,	
	PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, w/o	
	ventilation	
TPPR-HF-R-LXXXXX	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,	
	PCBs, SD Card, w/o HON Logo, w/o ventilation	
TPPR-HF-R-LRXXXX	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,	
	PCBs, SD Card, Redundant Control Centre Board, w/o HON Logo, w/o ventilation	
TPPR-HF-R-LXMXXX	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,	
	PCBs, SD Card, Modbus® Interface Board, w/o HON Logo, w/o ventilation	
TPPR-HF-R-LRMXXX	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,	
	PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, w/o HON	
	Logo, w/o ventilation	

Without ventilation, v	vithout plinth, without power distribution
Part Number	Description
TPPR-HF-RS-LXXHXX	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,
	PCBs, SD Card, w/o ventilation; w/o
TPPR-HF-RS-LRXHXX	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,
	PCBs, SD Card, Redundant Control Centre Board, w/o ventilation, w/o power distribution
TPPR-HF-RS-LXMHXX	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,
	PCBs, SD Card, Modbus® Interface Board, w/o ventilation, w/o power distribution
TPPR-HF-RS-LRMHXX	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,
	PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, w/o
	ventilation, w/o power distribution
TPPR-HF-RS-LXXXXX	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,
	PCBs, SD Card, w/o HON Logo, w/o ventilation, w/o power distribution
TPPR-HF-RS-LRXXXX	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,
	PCBs, SD Card, Redundant Control Centre Board, w/o HON Logo, w/o ventilation, w/o
	power distribution
TPPR-HF-RS-LXMXXX	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,
	PCBs, SD Card, Modbus® Interface Board, w/o HON Logo, w/o ventilation, w/o power
	distribution
TPPR-HF-RS-LRMXXX	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,
	PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, w/o HON
	Logo, w/o ventilation, w/o power distribution



Without ventilation, v	vith plinth
Part Number	Description
TPPR-HF-R-LXXHPX	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,
	PCBs, SD Card, with 100mm plinth, w/o ventilation
TPPR-HF-R-LRXHPX	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,
	PCBs, SD Card, Redundant Control Centre Board, with 100mm plinth, w/o ventilation
TPPR-HF-R-LXMHPX	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,
	PCBs, SD Card, Modbus® Interface Board, with 100mm plinth, w/o ventilation
TPPR-HF-R-LRMHPX	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,
	PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, with 100mm
	plinth, w/o ventilation
TPPR-HF-R-LXXXPX	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,
	PCBs, SD Card, w/o HON Logo, with 100mm plinth, w/o ventilation
TPPR-HF-R-LRXXPX	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,
	PCBs, SD Card, Redundant Control Centre Board, with 100mm plinth, w/o HON Logo, w/o
	ventilation
TPPR-HF-R-LXMXPX	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,
	PCBs, SD Card, Modbus® Interface Board, with 100mm plinth, w/o HON Logo, w/o
	ventilation
TPPR-HF-R-LRMXPX	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,
	PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, with 100mm
	plinth, w/o HON Logo, w/o ventilation
Without ventilation, w	vith plinth, without power distribution
Part Number	Description
TPPR-HF-RS-LXXHPX	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,
	PCBs, SD Card, with 100mm plinth, w/o ventilation, w/o power distribution
TPPR-HF-RS-LRXHPX	
TPPR-HF-RS-LRXHPX	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,
TPPR-HF-RS-LRXHPX	
	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, with 100mm plinth, w/o ventilation, w/o
	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, with 100mm plinth, w/o ventilation, w/o power distribution
	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, with 100mm plinth, w/o ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,
TPPR-HF-RS-LXMHPX	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, with 100mm plinth, w/o ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, with 100mm plinth, w/o ventilation, w/o power
TPPR-HF-RS-LXMHPX	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, with 100mm plinth, w/o ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, with 100mm plinth, w/o ventilation, w/o power distribution
TPPR-HF-RS-LXMHPX	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, with 100mm plinth, w/o ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, with 100mm plinth, w/o ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,
TPPR-HF-RS-LXMHPX TPPR-HF-RS-LRMHPX	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, with 100mm plinth, w/o ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, with 100mm plinth, w/o ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, with 100mm
TPPR-HF-RS-LXMHPX TPPR-HF-RS-LRMHPX	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, with 100mm plinth, w/o ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, with 100mm plinth, w/o ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, with 100mm plinth, w/o ventilation, w/o power distribution
TPPR-HF-RS-LXMHPX TPPR-HF-RS-LRMHPX	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, with 100mm plinth, w/o ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, with 100mm plinth, w/o ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, with 100mm plinth, w/o ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, w/o HON Logo, with 100mm plinth, w/o ventilation, w/o power distribution
TPPR-HF-RS-LXMHPX TPPR-HF-RS-LRMHPX TPPR-HF-RS-LXXXPX	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, with 100mm plinth, w/o ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, with 100mm plinth, w/o ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, with 100mm plinth, w/o ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, w/o HON Logo, with 100mm plinth, w/o ventilation, w/o power
TPPR-HF-RS-LXMHPX TPPR-HF-RS-LRMHPX TPPR-HF-RS-LXXXPX	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, with 100mm plinth, w/o ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, with 100mm plinth, w/o ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, with 100mm plinth, w/o ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, w/o HON Logo, with 100mm plinth, w/o ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, with 100mm plinth, w/o HON Logo, w/o
TPPR-HF-RS-LXMHPX TPPR-HF-RS-LRMHPX TPPR-HF-RS-LXXXPX TPPR-HF-RS-LRXXPX	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, with 100mm plinth, w/o ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, with 100mm plinth, w/o ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, with 100mm plinth, w/o ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, w/o HON Logo, with 100mm plinth, w/o ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, with 100mm plinth, w/o HON Logo, w/o ventilation, w/o power distribution
TPPR-HF-RS-LXMHPX TPPR-HF-RS-LRMHPX TPPR-HF-RS-LXXXPX TPPR-HF-RS-LXXXPX	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, with 100mm plinth, w/o ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, with 100mm plinth, w/o ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, with 100mm plinth, w/o ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, w/o HON Logo, with 100mm plinth, w/o ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, with 100mm plinth, w/o HON Logo, w/o ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,
TPPR-HF-RS-LXMHPX TPPR-HF-RS-LRMHPX TPPR-HF-RS-LXXXPX TPPR-HF-RS-LRXXPX	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, with 100mm plinth, w/o ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, with 100mm plinth, w/o ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, with 100mm plinth, w/o ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, w/o HON Logo, with 100mm plinth, w/o ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, with 100mm plinth, w/o HON Logo, w/o ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, with 100mm plinth, w/o HON Logo, w/o
TPPR-HF-RS-LXMHPX TPPR-HF-RS-LRMHPX TPPR-HF-RS-LXXXPX TPPR-HF-RS-LXXXPX	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, with 100mm plinth, w/o ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, with 100mm plinth, w/o ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, with 100mm plinth, w/o ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, w/o HON Logo, with 100mm plinth, w/o ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, with 100mm plinth, w/o HON Logo, w/o ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, with 100mm plinth, w/o HON Logo, w/o ventilation, w/o power distribution
TPPR-HF-RS-LXMHPX TPPR-HF-RS-LRMHPX TPPR-HF-RS-LXXXPX TPPR-HF-RS-LXXXPX	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, with 100mm plinth, w/o ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, with 100mm plinth, w/o ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, with 100mm plinth, w/o ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, w/o HON Logo, with 100mm plinth, w/o ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, with 100mm plinth, w/o HON Logo, w/o ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, with 100mm plinth, w/o HON Logo, w/o ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, with 100mm plinth, w/o HON Logo, w/o ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,
TPPR-HF-RS-LXMHPX TPPR-HF-RS-LXMHPX TPPR-HF-RS-LXXXPX TPPR-HF-RS-LXXXPX TPPR-HF-RS-LXXXPX	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, with 100mm plinth, w/o ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, with 100mm plinth, w/o ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, with 100mm plinth, w/o ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, w/o HON Logo, with 100mm plinth, w/o ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, with 100mm plinth, w/o HON Logo, w/o ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, with 100mm plinth, w/o HON Logo, w/o ventilation, w/o power distribution



Natural ventilation, w	ithout plinth
Part Number	Description
TPPR-HF-R-LXXHXN	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,
	PCBs, SD Card, natural ventilation
TPPR-HF-R-LRXHXN	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,
	PCBs, SD Card, Redundant Control Centre Board, natural ventilation
TPPR-HF-R-LXMHXN	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,
	PCBs, SD Card, Modbus® Interface Board, natural ventilation
TPPR-HF-R-LRMHXN	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,
	PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, natural
	ventilation
TPPR-HF-R-LXXXXN	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,
	PCBs, SD Card, w/o HON Logo, natural ventilation
TPPR-HF-R-LRXXXN	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,
	PCBs, SD Card, Redundant Control Centre Board, w/o HON Logo, natural ventilation
TPPR-HF-R-LXMXXN	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,
	PCBs, SD Card, Modbus® Interface Board, w/o HON Logo, natural ventilation
TPPR-HF-R-LRMXXN	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,
	PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, w/o HON
	Logo, natural ventilation
Natural ventilation, w	ithout plinth, without power distribution
Part Number	Description
TPPR-HF-RS-LXXHXN	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,
	PCBs, SD Card, natural ventilation, w/o power distribution
TPPR-HF-RS-LRXHXN	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,
	PCBs, SD Card, Redundant Control Centre Board, natural ventilation, w/o power
	distribution
TPPR-HF-RS-LXMHXN	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,
	PCBs, SD Card, Modbus® Interface Board, natural ventilation, w/o power distribution
TPPR-HF-RS-LRMHXN	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,
	PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, natural
	ventilation, w/o power distribution
TPPR-HF-RS-LXXXXN	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,
	PCBs, SD Card, w/o HON Logo, natural ventilation, w/o power distribution
TPPR-HF-RS-LRXXXN	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,
	PCBs, SD Card, Redundant Control Centre Board, w/o HON Logo, natural ventilation, w/o
	power distribution
TPPR-HF-RS-LXMXXN	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,
	PCBs, SD Card, Modbus® Interface Board, w/o HON Logo, natural ventilation, w/o power
	distribution
TPPR-HF-RS-LRMXXN	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,
	PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, w/o HON
	Logo, natural ventilation, w/o power distribution



Natural ventilation, w	ith plinth
Part Number	Description
TPPR-HF-R-LXXHPN	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,
	PCBs, SD Card, with 100mm plinth, natural ventilation
TPPR-HF-R-LRXHPN	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,
	PCBs, SD Card, Redundant Control Centre Board, with 100mm plinth, natural ventilation
TPPR-HF-R-LXMHPN	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,
	PCBs, SD Card, Modbus® Interface Board, with 100mm plinth, natural ventilation
TPPR-HF-R-LRMHPN	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,
	PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, with 100mm
	plinth, natural ventilation
TPPR-HF-R-LXXXPN	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,
	PCBs, SD Card, w/o HON Logo, with 100mm plinth, natural ventilation
TPPR-HF-R-LRXXPN	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,
	PCBs, SD Card, Redundant Control Centre Board, with 100mm plinth, w/o HON Logo,
	natural ventilation
TPPR-HF-R-LXMXPN	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,
	PCBs, SD Card, Modbus® Interface Board, with 100mm plinth, w/o HON Logo, natural
	ventilation
TPPR-HF-R-LRMXPN	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,
	PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, with 100mm
	plinth, w/o HON Logo, natural ventilation
	nd with plinth, without power distribution
Part Number	Description Floor Charles Collision - 1th Page Assess 2000U 000W 000D trail des Controlles - 1th UMB
TPPR-HF-RS-LXXHPN	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,
	PCBs, SD Card, with 100mm plinth, natural ventilation, w/o power distribution
TPPR-HF-RS-LRXHPN	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,
	PCBs, SD Card, Redundant Control Centre Board, with 100mm plinth, natural ventilation,
	w/o power distribution
TPPR-HF-RS-LXMHPN	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,
	PCBs, SD Card, Modbus® Interface Board, with 100mm plinth, natural ventilation, w/o
TDDD 115 DC 1 D1 411D1	power distribution
TPPR-HF-RS-LRMHPN	power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,
TPPR-HF-RS-LRMHPN	power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, with 100mm
	power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, with 100mm plinth, natural ventilation, w/o power distribution
	power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, with 100mm plinth, natural ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,
	power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, with 100mm plinth, natural ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, w/o HON Logo, with 100mm plinth, natural ventilation, w/o power
TPPR-HF-RS-LXXXPN	power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, with 100mm plinth, natural ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, w/o HON Logo, with 100mm plinth, natural ventilation, w/o power distribution
TPPR-HF-RS-LXXXPN	power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, with 100mm plinth, natural ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, w/o HON Logo, with 100mm plinth, natural ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,
TPPR-HF-RS-LXXXPN	power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, with 100mm plinth, natural ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, w/o HON Logo, with 100mm plinth, natural ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, with 100mm plinth, w/o HON Logo,
TPPR-HF-RS-LXXXPN TPPR-HF-RS-LRXXPN	Ploor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, with 100mm plinth, natural ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, w/o HON Logo, with 100mm plinth, natural ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, with 100mm plinth, w/o HON Logo, natural ventilation, w/o power distribution
TPPR-HF-RS-LXXXPN TPPR-HF-RS-LRXXPN	Ploor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, with 100mm plinth, natural ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, w/o HON Logo, with 100mm plinth, natural ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, with 100mm plinth, w/o HON Logo, natural ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,
TPPR-HF-RS-LXXXPN TPPR-HF-RS-LRXXPN	Ploor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, with 100mm plinth, natural ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, w/o HON Logo, with 100mm plinth, natural ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, with 100mm plinth, w/o HON Logo, natural ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, with 100mm plinth, w/o HON Logo, natural
TPPR-HF-RS-LXXXPN TPPR-HF-RS-LRXXPN TPPR-HF-RS-LXMXPN	Ploor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, with 100mm plinth, natural ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, w/o HON Logo, with 100mm plinth, natural ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, with 100mm plinth, w/o HON Logo, natural ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, with 100mm plinth, w/o HON Logo, natural ventilation, w/o power distribution
TPPR-HF-RS-LXXXPN TPPR-HF-RS-LXXXPN TPPR-HF-RS-LXXXPN TPPR-HF-RS-LXMXPN	Power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, with 100mm plinth, natural ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, w/o HON Logo, with 100mm plinth, natural ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, with 100mm plinth, w/o HON Logo, natural ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, with 100mm plinth, w/o HON Logo, natural ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,
TPPR-HF-RS-LXXXPN TPPR-HF-RS-LRXXPN TPPR-HF-RS-LXMXPN	Ploor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, with 100mm plinth, natural ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, w/o HON Logo, with 100mm plinth, natural ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, with 100mm plinth, w/o HON Logo, natural ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, with 100mm plinth, w/o HON Logo, natural ventilation, w/o power distribution



Forced ventilation, wi Part Number	Description
TPPR-HF-R-LXXHXF	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,
	PCBs, SD Card, forced ventilation
TPPR-HF-R-LRXHXF	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,
	PCBs, SD Card, Redundant Control Centre Board, forced ventilation
TPPR-HF-R-LXMHXF	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,
	PCBs, SD Card, Modbus® Interface Board, forced ventilation
TPPR-HF-R-LRMHXF	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,
	PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, forced
	ventilation
TPPR-HF-R-LXXXXF	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,
	PCBs, SD Card, w/o HON Logo, forced ventilation
TPPR-HF-R-LRXXXF	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,
	PCBs, SD Card, Redundant Control Centre Board, w/o HON Logo, forced ventilation
TPPR-HF-R-LXMXXF	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,
	PCBs, SD Card, Modbus® Interface Board, w/o HON Logo, forced ventilation
TPPR-HF-R-LRMXXF	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,
THE THE TELEVISION	PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, w/o HON
	Logo, forced ventilation
Forced ventilation, wi	thout plinth, without power distribution
Part Number	Description
Part Number TPPR-HF-RS-LXXHXF	Ploor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,
	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, forced ventilation, w/o power distribution
	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,
TPPR-HF-RS-LXXHXF	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, forced ventilation, w/o power distribution
TPPR-HF-RS-LXXHXF TPPR-HF-RS-LRXHXF	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, forced ventilation, w/o power distribution
TPPR-HF-RS-LXXHXF	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,
TPPR-HF-RS-LXXHXF TPPR-HF-RS-LRXHXF	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, forced ventilation, w/o power distribution
TPPR-HF-RS-LXXHXF TPPR-HF-RS-LRXHXF	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,
TPPR-HF-RS-LXXHXF TPPR-HF-RS-LRXHXF TPPR-HF-RS-LXMHXF	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, forced
TPPR-HF-RS-LXXHXF TPPR-HF-RS-LRXHXF TPPR-HF-RS-LXMHXF TPPR-HF-RS-LRMHXF	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, forced ventilation, w/o power distribution
TPPR-HF-RS-LXXHXF TPPR-HF-RS-LRXHXF TPPR-HF-RS-LXMHXF	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,
TPPR-HF-RS-LXXHXF TPPR-HF-RS-LRXHXF TPPR-HF-RS-LXMHXF TPPR-HF-RS-LRMHXF	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, w/o HON Logo, forced ventilation, w/o power distribution
TPPR-HF-RS-LXXHXF TPPR-HF-RS-LRXHXF TPPR-HF-RS-LXMHXF TPPR-HF-RS-LRMHXF	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, w/o HON Logo, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,
TPPR-HF-RS-LXXHXF TPPR-HF-RS-LXMHXF TPPR-HF-RS-LXMHXF TPPR-HF-RS-LXXXXF	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, w/o HON Logo, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, w/o HON Logo, forced ventilation, w/o
TPPR-HF-RS-LXXHXF TPPR-HF-RS-LXMHXF TPPR-HF-RS-LXMHXF TPPR-HF-RS-LXXXXF	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, w/o HON Logo, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, w/o HON Logo, forced ventilation, w/o power distribution
TPPR-HF-RS-LXXHXF TPPR-HF-RS-LXMHXF TPPR-HF-RS-LXMHXF TPPR-HF-RS-LXXXXF	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, w/o HON Logo, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, w/o HON Logo, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, w/o HON Logo, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,
TPPR-HF-RS-LXXHXF TPPR-HF-RS-LXMHXF TPPR-HF-RS-LXMHXF TPPR-HF-RS-LXXXXF	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, w/o HON Logo, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, w/o HON Logo, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, w/o HON Logo, forced ventilation, w/o power
TPPR-HF-RS-LXXHXF TPPR-HF-RS-LXMHXF TPPR-HF-RS-LXMHXF TPPR-HF-RS-LXXXXF TPPR-HF-RS-LXXXXF	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, w/o HON Logo, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, w/o HON Logo, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, w/o HON Logo, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, w/o HON Logo, forced ventilation, w/o power distribution
TPPR-HF-RS-LXXHXF TPPR-HF-RS-LXMHXF TPPR-HF-RS-LXMHXF TPPR-HF-RS-LXXXXF	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, w/o HON Logo, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, w/o HON Logo, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, w/o HON Logo, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, w/o HON Logo, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, w/o HON Logo, forced ventilation, w/o power distribution
TPPR-HF-RS-LXXHXF TPPR-HF-RS-LXMHXF TPPR-HF-RS-LXMHXF TPPR-HF-RS-LXXXXF TPPR-HF-RS-LXXXXF	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, w/o HON Logo, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, w/o HON Logo, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, w/o HON Logo, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, w/o HON Logo, forced ventilation, w/o power distribution



Forced ventilation, wi	tn piintn												
Part Number	Description												
TPPR-HF-R-LXXHPF	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,												
	PCBs, SD Card, with 100mm plinth, forced ventilation												
TPPR-HF-R-LRXHPF	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,												
	PCBs, SD Card, Redundant Control Centre Board, with 100mm plinth, forced ventilation												
TPPR-HF-R-LXMHPF	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,												
	PCBs, SD Card, Modbus® Interface Board, with 100mm plinth, forced ventilation												
TPPR-HF-R-LRMHPF	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,												
	PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, with 100mm												
	plinth, forced ventilation												
TPPR-HF-R-LXXXPF	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,												
	PCBs, SD Card, w/o HON Logo, with 100mm plinth, forced ventilation												
TPPR-HF-R-LRXXPF	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,												
	PCBs, SD Card, Redundant Control Centre Board, with 100mm plinth, w/o HON Logo,												
	forced ventilation												
TPPR-HF-R-LXMXPF	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,												
	PCBs, SD Card, Modbus® Interface Board, with 100mm plinth, w/o HON Logo, forced												
	ventilation												
TPPR-HF-R-LRMXPF	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,												
	PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, with 100mm												
	plinth, w/o HON Logo, forced ventilation												
Farand vantilation wi	th uliuth without now a distribution												
Part Number	th plinth, without power distribution Description												
TPPR-HF-RS-LXXHPF	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,												
TITICIII NO EXXIIIT	PCBs, SD Card, with 100mm plinth, forced ventilation, w/o power distribution												
TDDD LIE DE LDVIIDE													
TPPR-HF-RS-LRXHPF	Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,												
	PCBs, SD Card, Redundant Control Centre Board, with 100mm plinth, forced ventilation,												
TDDR_HE_RS_I YMHDE	w/o power distribution												
TPPR-HF-RS-LXMHPF	w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,												
TPPR-HF-RS-LXMHPF	w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, with 100mm plinth, forced ventilation, w/o												
	w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, with 100mm plinth, forced ventilation, w/o power distribution												
	w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, with 100mm plinth, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,												
	w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, with 100mm plinth, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, with 100mm												
TPPR-HF-RS-LRMHPF	w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, with 100mm plinth, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, with 100mm plinth, forced ventilation, w/o power distribution												
TPPR-HF-RS-LRMHPF	w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, with 100mm plinth, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, with 100mm plinth, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,												
TPPR-HF-RS-LRMHPF	w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, with 100mm plinth, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, with 100mm plinth, forced ventilation, w/o power distribution												
TPPR-HF-RS-LRMHPF TPPR-HF-RS-LXXXPF	w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, with 100mm plinth, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, with 100mm plinth, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, w/o HON Logo, with 100mm plinth, forced ventilation, w/o power												
TPPR-HF-RS-LRMHPF TPPR-HF-RS-LXXXPF	w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, with 100mm plinth, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, with 100mm plinth, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, w/o HON Logo, with 100mm plinth, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,												
TPPR-HF-RS-LRMHPF TPPR-HF-RS-LXXXPF	w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, with 100mm plinth, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, with 100mm plinth, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, w/o HON Logo, with 100mm plinth, forced ventilation, w/o power distribution												
TPPR-HF-RS-LXXXPF TPPR-HF-RS-LXXXPF	W/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, with 100mm plinth, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, with 100mm plinth, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, w/o HON Logo, with 100mm plinth, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, with 100mm plinth, w/o HON Logo,												
TPPR-HF-RS-LRMHPF TPPR-HF-RS-LXXXPF TPPR-HF-RS-LRXXPF	W/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, with 100mm plinth, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, with 100mm plinth, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, w/o HON Logo, with 100mm plinth, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, with 100mm plinth, w/o HON Logo, forced ventilation, w/o power distribution												
TPPR-HF-RS-LXXXPF TPPR-HF-RS-LXXXPF	W/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, with 100mm plinth, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, with 100mm plinth, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, w/o HON Logo, with 100mm plinth, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, with 100mm plinth, w/o HON Logo, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,												
TPPR-HF-RS-LXXXPF TPPR-HF-RS-LXXXPF TPPR-HF-RS-LRXXPF	w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, with 100mm plinth, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, with 100mm plinth, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, w/o HON Logo, with 100mm plinth, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, with 100mm plinth, w/o HON Logo, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, with 100mm plinth, w/o HON Logo, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, with 100mm plinth, w/o HON Logo, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI,												
TPPR-HF-RS-LXMHPF TPPR-HF-RS-LRMHPF TPPR-HF-RS-LXXXPF TPPR-HF-RS-LXXXPF TPPR-HF-RS-LXMXPF	w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, with 100mm plinth, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, Modbus® Interface Board, with 100mm plinth, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, w/o HON Logo, with 100mm plinth, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Redundant Control Centre Board, with 100mm plinth, w/o HON Logo, forced ventilation, w/o power distribution Floor Standing Cabinet with Rear Access 2000Hx800Wx600D includes Controller with HMI, PCBs, SD Card, Modbus® Interface Board, with 100mm plinth, w/o HON Logo, forced ventilation, w/o power distribution												



30.3 TPPR-M Input and Output Modules

TPPR-M In	put	and	Out	put (Conf	igura	tor	(I/O	Cor	nfigu	ırato	or)		
TPPR-M														
	10	Way	Con	nmu	nica	tion/	Pοι	ver F	Rail	(Sele	ect u	p to	maximum 10 I/Os)	
	Coi	ısist	s of a	a DIN	N Rai	l blan	ık p	anel	, 1 R	ing (Coup	oling	Module and 10 Backplanes	
	Inp	ut a	nd O	utpu	ut M	odule	es (I/O I	Vlod	ule)				
	Χ	No	ne											
	A Analogue Input Module mV-Bridge (4 channels per module)													
	C Analogue Input Module 4-20mA (4 channels per module)													
	H Digital Input Module (4 channels per module)													
	Ν	Rel	ay O	utpu	ıt Mo	odule	(4	char	nnel	s pe	r mo	dule	e)	
											Cus	tom	ner Set-up	
											D	Und	configured	
											S	Cus	stom * per I/O Module	
												Opt	tional Terminal Block	
												Х	None	
₩													Terminal Blocks * per I/O	
												Т	Module	
TPPR-M	A	Α	Α	N	N	N	Х	Х	Х	X	S	Х		

TPPR-M																					
	9 W	ay (Comr	nun	icati	on/I	ow	er Ra	il (S	elec	t up	to	maximum 9 I/Os)								
	R	Cor	sists	of a	DIN	l Rai	l bla	nk pa	nel,	2x	Ring	upling Modules and 9									
		Bac	kplaı	nes;																	
		Inp	ut ar	nd O	utpu																
		X	Non	ie																	
		Α	Ana	logu	ie In	put I	Mod	ule n	าV-B	ridg	ge (4	1 ch	annels per module)								
				_									nels per module)								
												module)									
		Ν	Rela	у О	utpu	it Mo	odul	e (4 c	han	nels	per	per module)									
											Cus	Customer Set-up									
												D Unconfigured									
											S	Custom *per I/O Module									
												Op	tional Terminal Block								
												Х	None								
▼													Terminal Blocks * per I/O								
												Т	Module								
TPPR-M	R	Α	Α	Α	Α	Α	Α	Α	Α	Α	S	X									



TPPR-M														
	9 W	ay (Comi	mun	icati	on/	Pow	er R	ail (S	Sele	t up	to	maximum 9 I/Os)	
	Н	Cor	sists	s of a	a DIN	l Rai	il bla	nk p	ane	l, 1x	Ring	Cou	upling Modules, 1x DIM, and	
		Inp	ut ar	nd O	utpu	ıt M	lodu	les (1/0	Mod				
		Х	Nor	ne										
		Α	Ana	alogu	ıe In	put l	Mod	ule	mV-	Bridg				
		U	Ana	alogu	ıe In	put l	Mod	ule	4-20	mΑ				
			_		_			•			dule)			
		Ν	Rela	ау О	utpu	it Mo	odul	e (4	chai	nnels	s per	· mo	odule)	
											Cus	ton	ner Set-up	
											D	Un	nconfigured	
											S	Cus	stom *per I/O Module	
												Op	otional Terminal Block	
		X None											None	
₩			Terminal Blocks * per I/O											
												Т	Module	
TPPR-M	Н	A	Α	Α	Α	Α	Α	Α	Α	Α	S	Х		

TPPR-M																		
	8 W	ay (Comi	mun	icat	ion/	Pow	er R	ail (S	elec	t up	to r	naxi	imum 8 I/Os)				
	R													upling Modules, 1x DIM, and 8				
			Вас	kpla	nes;	with	n ad	ditio	nal R	Ring	Cou	oling	Мо	dule for redundant communications				
			and	d additional DIM for remote PSU failure monitoring.														
			Inp	put and Output Modules (I/O Module)														
			X	Nor	None													
			Α	Ana	Analogue Input Module mV-Bridge (4 channels per module) Analogue Input Module 4-20mA (4 channels per module)													
			С	Ana														
				Ŭ					(4 c			•						
			N	Rela	ау О	utpu	ıt M	odul	e (4 (char	nels	Ė		dule)				
												Cus	tom	ier Set-up				
												D		Unconfigured				
												S		Custom *per I/O Module				
														Optional Terminal Block				
					X None													
*					T Terminal Blocks * per I/O Module													
TPPR-M	R	Н	Α	Α	Α	Α	Α	Α	Α	Α	Α	s	Х					

30.3 TPPR-W PSUs

Part Number	Description
TPPR-W-000-1	2 Way DC Distribution Only
TPPR-W-000-2	4 Way DC Distribution Only
TPPR-W-000-3	8 Way DC Distribution Only
TPPR-W-005-1	5A PSU Only
TPPR-W-010-1	10A PSU Only
TPPR-W-020-1	20A PSU Only
TPPR-W-005-2	5A PSU + UPS
TPPR-W-010-2	10A PSU + UPS



TPPR-W-020-2	20A PSU + UPS
TPPR-W-005-3	2 x 5A PSU + RDN
TPPR-W-010-3	2x 10A PSU + RDN
TPPR-W-020-3	2x 20A PSU + RDN + 4 Way DC Distribution
TPPR-W-005-4	2x 5A PSU + RDN + UPS
TPPR-W-010-4	2x 10A PSU + RDN + UPS
TPPR-W-020-4	2x 20A PSU + RDN + UPS + 8 Way DC Distribution
TPPR-W-020-5	20A PSU + 8 Way DC Distribution
TPPR-W-020-6	20A PSU + UPS + 8 Way DC Distribution
TPPR-W-040-1	2x 20A + RDN + Power Distribution
TPPR-W-040-2	2x 20A + RDN + UPS + Power Distribution
TPPR-W-040-3	2x20A + Fault Tolerant + Power Distribution
TPPR-W-040-4	2x 20A + Fault Tolerant + UPS + Power Distribution
TPPR-W-060-1	3x 20A + Power Distribution
TPPR-W-060-2	3x 20A + UPS + Power Distribution
TPPR-W-060-3	60A + Fault Tolerant + Power Distribution
TPPR-W-060-4	60A + Fault Tolerant + UPS + Power Distribution
TPPR-W-080-1	80A + Power Distribution
TPPR-W-080-2	80A + UPS + Power Distribution
TPPR-W-080-3	80A + Fault Tolerant + Power Distribution
TPPR-W-080-4	80A + Fault Tolerant + UPS + Power Distribution
TPPR-W-100-1	100A + Power Distribution
TPPR-W-100-2	100A + UPS + Power Distribution
TPPR-W-100-3	100A + Fault Tolerant + Power Distribution



30.4 Define TPPR System for 19" Rack System (for Brown Field sites)

Use the Touchpoint Pro Part Number and Pricing Configurator design to build flexible 19" Rack Control Systems.

For example, the part number for a 19" Rack Controller with a Redundant Control Center Board, a Modbus® Interface Board and a 7 Way Communication/Power Rail, 5A Power Supply Unit and equipped with four Analog Input Modules 4-20mA and three Relay Output Modules.

• TPPR-S-RLRM-3A-CCCCNNNXX-XD

TPPR System Part Number and Pricing Generator enables to build up any system.

Follow each step and select the components.

This will enable you to generate the final part number and price for your required system.

- 1. Define TPPR rack mounted option with or without User Interface
- 2. Select the Redundant Control Centre Board for a unit with User Interface if a dual redundant system is required
- 3. Select the Modbus[®] Interface Board for a unit with User Interface if a Modbus[®] Interface is required.
- 4. Select the Communication / Power Rail size.
- 5. Defining the the Power Supply Configuration per I/O cluster.
- 6. Defining the Power Supply Configruation per I/O cluster.
- 7. Select if a Honeywell or customer logo is required.
- 8. Select the system configuration.

19" Rack 5U HMI Interface



19" Rack 5U Remote Unit



R-S																				
	19" Rad	ck contr	oller or	Remot	e Unit (See abo	ve pictu	res for re	eference	e)										
	RL	19" Ra	ck 5U Co	ntrolle	r includ	les HMI,	PCBs, SE	card												
	RR	19" Ra	ck 5U Re	mote l	Jnit wit	hout H	VII, PCBs,	SD card												
		Redun	dant Co	ntrol C	entre B	oard (Se	elect if a	dual red	undant	system is	s requi	ired)								
		Х	None																	
		R	_			lection o	only)													
			Bus Int	_	Board															
				None																
			M Modbus® Interface Board (for TPPR-S-RL selection only)																	
			5, 7 or 9 Way Communication/Power Rail (Select the appropriate option for your PSU and I/O module combination) Consists of a DIN Rail blank panel, 1 Ring Coupling Module and 5, 7 or 9 Backplanes																	
				_																
				2	_					ect up to										
				3	_			_		ect up to										
				4						ect up to						۹۱				
					X					I/O Mod					neede	a)				
					A) Module				111						
					В					/O Modu		•							+	
					C					/O Modu									+	
					U					m 5 I/O N									_	
					V					um 5 I/O									_	
) module			,							
								•			•	nd on Co	mmunic	ation/Pc	wer Rai	il and Po	ower	Configuration selection. Please	include a co	ode for each I/O module,
						includ	ding X=N	ONE, to r	nake a t	otal of 9	codes.	. The rail	will be j	populate	d in the	order g	given	below:		
						Х	None													
						Α				e mV-Brio	-									
						С				e 4-20mA	_		er modu	ıle)						
						Н				channel	_									
						N	Relay (Output N	1odule (4 channe	els per	module)							<u> </u>	
																Custor	_	-		
																X :	Non			
																		tomer Set up		
																		0		
																	S		+	
	Ť	Ť	. ₩	Ť	\ \	_ 	▼	. ▼	<u> </u>	<u> </u>	<u> </u>	▼	, Ý	. ▼		▼	V	7		



















30.5 Build your own TPPR System (for Intergrators/OEMs)

Any Touchpoint Pro system can be built from the indvidual components below.

To configure a Touchpoint Pro system please select:

- 1. User interface
- 2. Input and Output (I/O) Modules
- 3. Power Supply Units (PSU)
- 4. Communication / Power Rail version

Optional: Select the Redundant Control Centre Board for the Controller if a dual redundant system is required.

Optional: Select the Modbus® Interface Board for the Controller if a Modbus® Interface is required.

Use the individual component part numbers to supply a variety of systems for many different applications.

For example, the part numbers for a Wall Mount Controller with 10 Way Communications/Power Rail, 10A Power Supply Unit and equipped with three Analog Input Modules mV-Bridge and three Relay Output Modules.

- TPPR-V-1210 3x TPPR-V-1010 TPPR-V-0704
- TPPR-V-0540 3x TPPR-V-1040 TPPR-V-0503





30.6 Touchpoint Pro User Interface Options

19" Rack enclosure	19" Rack enclosure versions and Front Panel 5U Controller											
Part Number	Description											
TPPR-V-0602	19" Rack 5U Controller includes HMI, PCBs, SD Card											
TPPR-V-0612	19" Rack 5U Remote Unit w/o HMI, PCB, SD Card											
TPPR-V-0852	Front Panel 5U Controller includes HMI, PCBs, SD Card											

Standard Wall Mo	unt enclosure versions
Part Number	Description
TPPR-V-1210	Wall Mount Controller, 600Hx600Wx300D, includes HMI, PCBs, SD Card; with pre-drilled mounting plate
TPPR-V-1215	Wall Mount Remote Unit, 600Hx600Wx300D, w/o HMI, PCBs, SD Card; with pre-drilled mounting plate
TPPR-V-1220	Wall Mount Controller, 800Hx600Wx300D, includes HMI, PCBs, SD Card; with pre-drilled mounting plate
TPPR-V-1225	Wall Mount Remote Unit, 800Hx600Wx300D, w/o HMI, PCBs, SD Card; with pre-drilled mounting plate
TPPR-V-1230	Wall Mount Controller, 1200Hx800Wx300D, includes HMI, PCBs, SD Card; with pre-drilled mounting plate



Wall Mount Stain	less Steel Div2/Zone2 Remote Units
Part Number	Description
TPPR-V-1241	Wall Mount Stainless Steel Div2/Zone2 Remote Unit, 780Hx510Wx300D, w/o HMI, PCBs,
	SD Card; with pre-drilled mounting plate

Floor Standing Cal	binet versions
Part Number	Description
TPPR-V-1250	Floor Standing Cabinet with Front Access, 2000Hx800Wx600D, includes Controller with
	HMI, PCBs, SD Card; w/o ventilation; with pre-drilled mounting plate
TPPR-V-1252	Floor Standing Cabinet with Front Access, 2000Hx800Wx600D, includes Controller with
	HMI, PCBs, SD Card; natural ventilation; with pre-drilled mounting plate
TPPR-V-1254	Floor Standing Cabinet with Front Access, 2000Hx800Wx600D, includes Controller with
	HMI, PCBs, SD Card; forced ventilation; with pre-drilled mounting plate
TPPR-V-1260	Floor Standing Cabinet with Rear Access, 2000Hx800Wx600D, includes Controller with
	HMI, PCBs, SD Card; w/o ventilation; with pre-drilled mounting plate
TPPR-V-1262	Floor Standing Cabinet with Rear Access, 2000Hx800Wx600D, includes Controller with
	HMI, PCBs, SD Card; natural ventilation; with pre-drilled mounting plate
TPPR-V-1264	Floor Standing Cabinet with Rear Access, 2000Hx800Wx600D, includes Controller with
	HMI, PCBs, SD Card; forced ventilation; with pre-drilled mounting plate

30.7 Touchpoint Pro COMPONENTS





Input and Output	Modules (I/O Modules)
Part Number	Description
TPPR-V-1000	Analogue Input Module 4-20mA (4 channels per module)
TPPR-V-1010	Analogue Input Module mV-Bridge (4 channels per module)
TPPR-V-1030	Digital Input Module (4 channels per module)
TPPR-V-1040	Relay Output Module (4 channels per module)

Communication/Power Rail

For 19" Rack enclo	osure versions	
Part Number	Description	
TPPR-V-0520	5 Way Communication/Power Rail	
TPPR-V-0525	7 Way Communication/Power Rail	
TPPR-V-0530	9 Way Communication/Power Rail	

For standard Wall	Mount and Floor Standing Cabinet versions				
Part Number	Description				
TPPR-V-0540	10 Way Communication/Power Rail				
TPPR-V-0542	9 Way Communication/Power Rail with additional DIM				

Power Supplies

Power Supplies	
Part Number	Description
TPPR-V-0500	Power Supply Redundancy Module 40A
TPPR-V-0501	UPS 20A DC Module
TPPR-V-0502	5A, 120W, 24 Vdc PSU
TPPR-V-0503	10A, 240W, 24 Vdc PSU
TPPR-V-0504	20A. 480W. 24 Vdc PSU



Bus Interface Board (Optional) Part Number Description TPPR-V-2130 Modbus® Interface Board

Redundant Control System (Optional)							
Part Number	Description						
TPPR-V-2120	Redundant Control Centre Board						

Software	
Part Number	Description
TPPR-V-1111	PC Config SW licences 12 months
TPPR-V-2223	WebServer SW licences 12 months

30.8 Touchpoint Pro ACCESSORIES AND SPARES

Part Number	Description
TPPR-V-0405	27Ah 24V Battery (2x27Ah 12V in series)
TPPR-V-0406	12Ah 24V Battery (2x12Ah 12V in series)
TPPR-V-2600	Battery Backup Enclosure (for two batteries - 12 Ah size or 27 Ah size)
TPPR-V-1050	Ring Coupling Module (RCM)
TPPR-V-0842	SD Card (4 GB)
TPPR-V-0703	DIN Rail Blank Panel 430mm for 19" Rack 5U version
TPPR-V-0704	DIN Rail Blank Panel 487mm for Standard Cabinet versions
TPPR-V-0705	DIN Rail Blank Panel 630mm for Standard Cabinet versions
TPPR-V-0706	DIN Rail Blank Panel 540mm for Standard Cabinet versions
TPPR-V-0708	DIN Rail Blank Panel 230mm for Standard Cabinet versions
TPPR-V-1270	Blank Gland Plate for 600Wx300D Wall Mount enclosure versions
TPPR-V-1271	Gland Plate with standard knock-outs for 600Wx300D Wall Mount enclosure versions
TPPR-V-1272	Gland Plate with custom knock-outs for 600Wx300D Wall Mount enclosure versions
TPPR-V-1275	Blank Gland Plate for 800Wx300D Wall Mount enclosure versions
TPPR-V-1276	Gland Plate with standard knock-outs for 800Wx300D Wall Mount enclosure versions
TPPR-V-1277	Gland Plate with custom knock-outs for 800Wx300D Wall Mount enclosure versions
TPPR-V-1280	Blank Gland Plate for Stainless Steel, Div2/Zone2, 510Wx300D enclosure
TPPR-V-1285	Blank Gland Plate for 800Wx600D Floor Standing Cabinets
TPPR-V-1290	Mild Steel Viewing Window for all Standard Wall Mount Controllers and Floor Standing
	cabinet versions, IP54, RAL 7035
TPPR-V-1291	Plinth 100Hx800W for Floor Standing Cabinet
TPPR-V-1292	Plinth Sides 100Hx600D for Floor Standing Cabinet
TPPR-V-1293	Mild Steel Bezel with PUR Gasket
TPPR-V-1211	Mounting plate Blank 600Hx600W Mild Steel
TPPR-V-1221	Mounting plate blank 800Hx600W Mild Steel
TPPR-V-1231	Mounting plate blank 1200Hx800W Mild Steel
TPPR-V-1267	Mounting plate blank 2000Hx800W Mild Steel
TPPR-V-1243	Mounting plate blank 780Hx510W Stainless Steel Div2/Zone2
TPPR-V-1294	Lifting Eyes for Floor Standing Cabinet
TPPR-V-1295	Wall Mounting Brackets for Standard Wall Mount Enclosure
TPPR-V-1298	Wall Mounting Brackets for Floor Standing Cabinet
TPPR-V-1995	24V DC LED Light w Movement Sensor Floor Cabinet
TPPR-V-1996	Roof Outlet Vent Floor Cabinet Natural or Forced Ventilation
TPPR-V-1997	Door Inlet Vent Floor Cabinet Natural or Forced Ventilation
TPPR-V-1998	Thermostat Floor Cabinet Forced Ventilation
TPPR-V-1999	24V DC Filter Fan Floor Cabinet Forced Ventilation
1FFIX-V-1333	24V De l'iller l'ail l'iour cabillet l'oreca vertifiation

31. Touchpoint Plus Controller





Touchpoint Plus is an easily configurable, wall mounted control system that supports up to eight channels of gas detection with a further eight channels available through an optional expansion unit. It accepts inputs from 2 or 3-wire mA or mV field devices.

Its intuitive, multilingual interface simplifies operation and reduces training requirements. The full colour traffic light style status indication provides clarity from a distance.

Touchpoint Plus includes a comprehensive set of outputs as standard including common alarms and dedicated drives for remote audiovisual indicators.

31.1 Instrument

Touchpoint Plus Base Units

Standard Supply: Touchpoint Plus base unit is supplied complete with pre-assembled I/O modules, 7" colour LCD, touch screen, industrial enclosure, 150W power supply (only for AC version), backplane, 13 cable entries with blanking plugs, earth terminals, certificate of inspection & test (including system configuration information), tool set for access security screw, and instruction manual. Units are 100% inspected prior to despatch from the factory.

Touchpoint Plus Expansion Unit

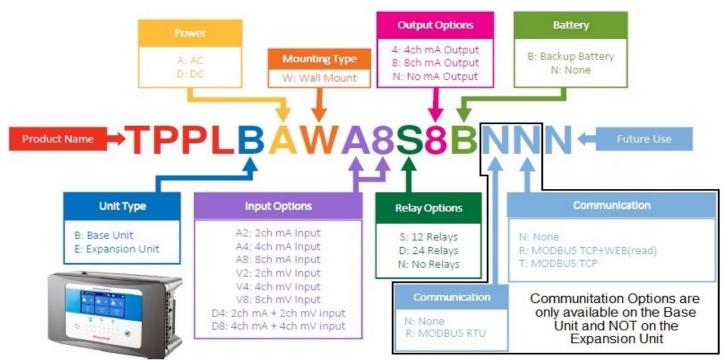
The optional expansion unit holds the same modules and optional backup battery as the Touchpoint Plus base unit, but has no controller or user interface. The main module can appect power in and CAN conncetion only. The Touchpoint Plus base unit and the extention unit support up to 16 channels of gas detections.



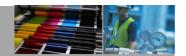
31.2 Ordering Information

Ordering Information

*Refer to the list or contact product management for non-listed configurations



31. Touchpoint Plus Controller



31.3 Touchpoint Plus Ordering and Pricing Generator

Touchpoint Plus Ordering and Pricing Generator enables to build up any system. Follow each step and select the components and prices.

												Example	
	TPPL	Х	Х	Х	ХХ	Х	Х	Х	Х	Х	Х	Components	
												Touchpoint Plus base control unit	
		В										for up to 8 channels	
												Touchpoint Plus expansion unit	
		E										for up to 8 channels	
	•	-	•	-				•		-		•	•
			Α									AC supply	
			D									DC supply	
				W								Wall mounted enclosure	
					A2							2 x mA inputs	
					A4							4 x mA inputs	
			ļ		A8			ļ				8 x mA inputs	
					V2							2 x mV inputs	
					V4							4 x mV inputs	
					V8							8 x mV inputs	
					D4							2 x mA, 2 x mV Inputs	
					D8							4 x mA, 4 x mV Inputs	
		I	T .	Ι				T		I		including Master 1, Master 2 and	
						N						Master Fault	
						S						12 programmable relays	
						D						24 programmable relays	
							N						
							4					4 x repeated mA outputs	
							8					8 x repeated mA outputs	
								N				Without battery backup	
								В				With battery backup	
									N			Future option	
												With RS485 Modbus RTU* only	
									R			available with Touchpoint Plus	
												base controler	
						-							
							L		L	N		Future option	
										Т		With Modbus TCP	
												With Modbus TCP + Web	
										R		monitoring* only available with Touchpoint Plus	
												base controler	
											Ν	Future option	
ole:	TPPL	В	Α	W	A8	N	N	N	N	N	N		

TPPLBAWA8SNNNNN:

For example, the part number for Touchpoint Plus base control unit for up to 8 channels with AC supply and wall mount enclosure. Supplied complete with 8x mA inputs and 12 programmable relays, and with battery backup.





Part Number Price Examples Note: Listed below are examples of commonly ordered instrument configurations. To create a custom Touchpoint Plus control unit, use the configurable table AND contact Honeywell Analytics to confirm configuration is valid and available.	
TPPLBAWA2NNNNN	Touchpoint Plus base control unit for up to 8 channels with AC supply and wall
	mounted enclosure. Supplied complete with 2x mA inputs, including Master 1,
	Master 2 and Master Fault.
TPPLBAWV2NNNNNN	Touchpoint Plus base control unit for up to 8 channels with AC supply and wall
	mounted enclosure. Supplied complete with 2x mV inputs, including Master 1,
	Master 2 and Master Fault.
ΓPPLBAWA4NNNNNN	Touchpoint Plus base control unit for up to 8 channels with AC supply and wall
	mounted enclosure. Supplied complete with 4x mA inputs, including Master 1,
	Master 2 and Master Fault.
TPPLBAWV4NNNNN	Touchpoint Plus base control unit for up to 8 channels with AC supply and wall
	mounted enclosure. Supplied complete with 4x mV inputs, including Master 1,
	Master 2 and Master Fault.
TPPLBAWD4NNNNN	Touchpoint Plus base control unit for up to 8 channels with AC supply and wall
	mounted enclosure. Supplied complete with 2x mA and 2x mV inputs, including
	Master 1, Master 2 and Master Fault.
TPPLBAWA8NNNNNN	Touchpoint Plus base Control Unit for up to 8 channels with AC supply and wall
TTT ED/TW/TOTALITIES	mounted enclosure. Supplied complete with 8x mA inputs, including Master 1,
	Master 2 and Master Fault.
EDDI D AVA/V/ONINININININI	
TPPLBAWV8NNNNN	Touchpoint Plus base Control Unit for up to 8 channels with AC supply and wall
	mounted enclosure. Supplied complete with 8x mV inputs, including Master 1,
	Master 2 and Master Fault.
TPPLBAWD8NNNNNN	Touchpoint Plus base Control Unit for up to 8 channels with AC supply and wall
	mounted enclosure. Supplied complete with 4x mA and 4x mV inputs, including
	Master 1, Master 2 and Master Fault.
TPPLBAWA8DNBNNN	Touchpoint Plus base Control Unit for up to 8 channels with AC supply and wall
	mounted enclosure. Supplied complete with 8x mA inputs, 24 programmable relays,
	and with battery backup.
TPPLBAWV8DNBNNN	Touchpoint Plus base Control Unit for up to 8 channels with AC supply and wall
	mounted enclosure. Supplied complete with 8x mV inputs, 24 programmable relays,
	and with battery backup.
ΓPPLBAWA8DNNNRN	Touchpoint Plus base Control Unit for up to 8 channels with AC supply and wall
	mounted enclosure. Supplied complete with 8x mA inputs, 24 programmable relays,
	with Modbus TCP and Web monitoring

TPPLBAWD8SNBRNN	Touchpoint Plus base Control Unit for up to 8 channels with AC supply and wall mounted enclosure. Supplied complete with 4x mA and 4x mV inputs, 12 programmable relays, with battery backup and with Modbus RTU.
TPPLBAWA8D8NNNN	Touchpoint Plus base Control Unit for up to 8 channels with AC supply and wall mounted enclosure. Supplied complete with 8x mA inputs, 24 programmable relays, and with 8x repreated mA outputs.
TPPLBAWV8D8NNNN	Touchpoint Plus base Control Unit for up to 8 channels with AC supply and wall mounted enclosure. Supplied complete with 8x mV inputs, 24 programmable relays, and with 8x repreated mA outputs.
TPPLBAWD8D8NNNN	Touchpoint Plus base Control Unit for up to 8 channels with AC supply and wall mounted enclosure. Supplied complete with 4x mA and 4x mV inputs, 24 programmable relays, and with 8x repreated mA outputs.
TPPLBAWA8D8BNNN	Touchpoint Plus base Control Unit for up to 8 channels with AC supply and wall mounted enclosure. Supplied complete with 8x mA inputs, 24 programmable relays, 8x repreated mA outputs, and with battery backup.
TPPLBAWV8D8BNNN	Touchpoint Plus base Control Unit for up to 8 channels with AC supply and wall mounted enclosure. Supplied complete with 8x mV inputs, 24 programmable relays, 8x repreated mA outputs, and with battery backup.
TPPLEAWA8SNNNNN	Touchpoint Plus expansion unit for up to 8 channels with AC supply and wall mounted enclosure. Supplied complete with 8x mA inputs, and with 12 programmable relays.

Note: Listed above are examples of commonly ordered instrument configurations. To create a custom Touchpoint Plus control unit, use the configurable table AND contact Honeywell Analytics to confirm configuration is valid and available.

31.4 Accessories

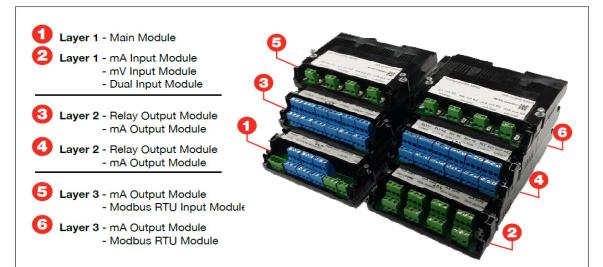
Accessories	
Part Number	Description
TPPLOWMB	Wall Mounting Bracket
TPPLOMGND	Metal grounding for cable gland
TPPLOGLD	Cable glands (13 pcs.)
TPPLOGLDA	Cable glands adaptor for M20 (13 pcs.)
TPPLOSDC	SD Card

31.5 Spare Parts

Spare Parts	
Part Number	Description
TPPLSDPM	UI PCB Module
TPPLSMPM	Main PCB Module
TPPLSLTSM	LCD + Touch Screen Module
TPPLSBPM	Back Plane Module
TPPLSSAM	SMPS Assembly Module(150W,110/220VAC)
TPPLSIBB	Backup battery pack
TPPLSMAAI2	2x mA Input Module
TPPLSMAAI4	4x mA Input Module
TPPLSMAAI8	8x mA Input Module
TPPLSMAVI2	2x mV Input Module
TPPLSMAVI4	4x mV Input Module
TPPLSMAVI8	8x mV Input Module
TPPLSMACI4	2x mA + 2x mV Dual Input Module
TPPLSMACI8	4x mA + 4x mV Dual Input Module
TPPLSMAROC	12x Relays
TPPLSMAAO4	4x mA Output Module
M-700123	Light stack assembly with red lens, horn (85-103 dB), voltage rating, 24VDC
M-700327	LED Light Module, 24V AC/DC, green, for use with M-700123
M-700328	LED Light Module, 24V AC/DC, blue, for use with M-700123
M-700329	LED Light Module, 24V AC/DC, clear, for use with M-700123
M-700330	LED Light Module, 24V AC/DC, yellow, for use with M-700123
M-700331	LED Light Module, 24V AC/DC, amber, for use with M-700123
M-700332	Vertical Stack Light Mounting Base w/cap
M-700333	Vertical Stack Light Mounting Base

Note:

- Main board must be installed Layer 1 left side
- Input board must be installed Layer 1 right side
- Relay output can be position layer 2 (max two boards)
- mA output board can be positioned layer 3 (max two boards) or can be layer 2 if no Relay output board selected.
- Main Module in Expansion Unit



32. HA20 & HA40 Digital Gas Controllers

Honeywell Analytics has phased out the HA20/40 controllers. Last time buy orders was December 31, 2017. Support of the spares for the HA20/40 are planned to continue through December 31, 2022, barring no unforeseen supplier or component availability disruptions. Reference Bulletin# 2017049.



The HA-20 and HA-40 controllers are designed to provide simultaneous display and alarm functions for two or four 4-20 mA Sensor transmitters. The 4-20 mA inputs are standard equipped and ideal for interfacing to Sensor transmitters that may be long distances from the controller.

32. HA20 & HA40 Digital Gas Controllers

32.1 HA20 I/O Spares

HA20 I/O Options	
Part Number	Description
10-0221-2	Dual 4-20 mA analog input
10-0223	Dual 4-20 mA analog output
10-0216	One bridge Sensor / one EC Sensor input combo
10-0219	Dual bridge Sensor input
10-0222	Relay option to add six 5 amp Form C relays

Note: The HA20 is limited to (3) I/O options per unit.

32.2 HA20 Spares and Accessories

HA20 Options and Accessories	
Part Number	Description
10-0284	Div. 2 red xenon strobe light (includes Mounting)
10-0285	Div. 2 amber xenon strobe light (includes Mounting)
10-0337	100db piezo audible (general purpose: can be used with all HA 20/40 enclosures except for NEMA 7)
1000-2259	50 watt NEMA 4X Div. 2 Powersupply - for use with HA20N4
10-0315	50 watt NEMA 4X Div. 2 - Powersupply with enclosure
10-0287	550V A/300 watt UPS / surge protector with Powerloss relay

32. HA20 & HA40 Digital Gas Controllers

32.3 HA40 I/O Spares

10-0222

HA40 I/O Options Part Number Description Quad 4-20 mA analog input 10-0221-4 Quad channel 4-20 mA output 10-0308 Quad bridge/dual analog configurable Sensor input 10-0309 RS-232 / RS-485 Modbus RTU addressable interface 10-0253 Relay option to add six 5 amp Form C relays

Note: The HA40 is limited to (3) I/O options per unit.

32.4 HA40 Spares and Accessories

HA20 Options and Accessories	
Part Number	Description
10-0284	Div. 2 red xenon strobe light (includes Mounting)
10-0285	Div. 2 amber xenon strobe light (includes Mounting)
10-0315	50 watt NEMA 4X Div. 2 - internal Powersupply
10-0287	550V A/300 watt UPS / surge protector with Powerloss relay
10-0337	100db piezo audible (general purpose: can be used with all HA 20/40 enclosures except for NEMA 7)

The 10-0287 Uninterruptable Power Supply (UPS) with surge protection delivers 550VA of 115VAC power at 300 watts max. Packaging is NEMA 4X fiberglass suitable for non-hazardous areas only. NEMA 7 explosion-proof packaging is available by special order. Seven amp DPDT relay contacts indicate when power is being supplied by the battery backup inverter. Higher VA ratings and longer backup are available by addition of external batteries.

33. HA71 Digital Gas Controllers



The Honeywell Analytics HA71 16 Channel Digital Gas Controller is a Class I Div. 2 controller designed to provide simultaneous display and alarm functions for up to 16 input variables. A graphic LCD displays monitored data as trends, bar graphs and engineering units. Three adjustable alarm levels are provided per channel. Relay outputs allow control of beacons, horns and other alarm events. A horn relay may be set for steady or pulsing operation. Analog inputs may be accepted and conditioned via Sensor specific analog input cards. The standard Modbus Master port allows input data to be retrieved from Modbus slave devices. These including proven in use devices such as the XNX™ Universal Transmitter and the Sensepoint XCD.

Enclosure options include a NEMA 4X enclosure, 19 in. rack/panel mount enclosure, and a NEMA 7 explosion-proof enclosure. These package styles support addition of up to 7 I2C option board footprints (3 with o 10-0180 expansion Kit option) inside each respective enclosure. Additional options may be added externally or in other enclosures. Includes magnetic keypad for non-intrusive control.

Enhanced Technology

- Accepts up to 16 inputs from numerous Sensor types
- Inputs may be analog or Modbus allowing data retrieval via RS-485 – reducing wiring costs at installation
- 8 channel display mode and option boards allow economical configuration of systems requiring only 8 channels or less
- Cal Mode offers pushbutton zero/span calibration for direct Sensor interface applications
- Authorization Mode locks critical configuration variables
- Graphic LCD displays monitored data as trends, bar graphs and engineering data
- Standard A SPDT common alarm relays for HORN, HIGH, WARN and FAULT

- Dual Modbus RS-485 serial ports and optional phone modem
- 3 adjustable alarm levels/channel
- Relay Acknowledge feature silences external audible devices during existing alarm conditions
- HMI Software monitors up to ten HA-71 controllers simultaneously

Beneficial Options

- Alarm event printer interface, direct Sensor inputs and discrete alarm relays supported via a 12C expansion bus
- Magnetic keypad available for non-intrusive operation in potentially hazardous locations
- NEMA 4X, Explosion-Proof, surface mount, panel and rack mount packaging

	# of Channels	Polycarbonate enclosure (NEMA 4X)
HA Controller 8 channel controller: UL/CSA approved, Class I, Div. 2, NEMA 4X enclosure with magnetic input for nonintrusive control, eight 4-20 mA analog inputs, Modbus input, four 5 amp common relays, sixteen 5 amp discrete relays, and an internal 150W Powersupply HA Controller 16 channel controller: UL/CSA approved, Class I, Div. 2, NEMA 4X enclosure with magnetic input for nonintrusive control, sixteen 4-20 mA analog inputs, Modbus input, four 5 amp common relays, thirty-two 5 amp discrete relays, and an internal 150W Powersupply	8 Channel	HA71N4-8
HA Controller 16 channel controller: UL/CSA approved, Class I, Div. 2, NEMA 4X enclosure with magnetic input for nonintrusive control, sixteen 4-20 mA analog inputs, Modbus input, four 5 amp common relays, thirty-two 5 amp discrete relays, and an internal 150W Powersupply	16 Channel	HA71N4-16

33.1 HA71 Configurations

HA20 Standard Configurations (Include Internal 50W PowerSupply, 2 Common Relays, and a 2 Channel 4-20 mA Input Card)	
Part Number	Description
HA71N4-8	HA71 in NEMA 4X enclosure, 8 channel, standard configuration
HA71N4-16	HA71 in NEMA 4X enclosure, 16 channel, standard configuration

HA71 Custom Configurations	
Part Number	Description
HA71PM	Panel mount rack incl bezel/rack hardware and magnetic keypad for non-intrusive control
HA71N4	HA71 in NEMA 4X enclosure incl magnetic keypad for non-intrusive control
HA71XP	HA71SM in bolt-on lid NEMA 7 enclosure incl magnetic keypad for non-intrusive control

Note: Custom configurations require all options to be ordered separately.

33. HA71 Digital Gas Controllers

33.2 HA71 I/O Options

HA71 I/O Options	
Part Number	Description
10-0158	I ² C analog 8 input board incl EXC terminals
10-0191	I ² C catalytic bead LEL Sensor / mA input board
10-0192	Dual catalytic bead LEL module (req's 10-0191)
10-0170	I ² C RTD / resistive / 4-20 mA 8 input board
10-0167	I ² C analog 4-20 mA 8 output board
10-0177	RS-485 to RS-232 converter (RS-485 RTU to PC DB9)
10-0229	I2C printer interface with parallel, RS-232, and RS-422 ports
10-0144	Auxiliary common alarm relay board (add'l Form C relay for ALM 1, ALM 2 and HORN)
10-0195	I ² C discrete alarm relay board (8, 5A Form C Relays)
10-0178	NEMA 4X expansion enclosure for up to 8 option PCB's
10-0180	NEMA 4X expansion plate (adds up to 4 option positions)
10-0172	85-240 Vac universal input 150 watt 24 Vdc internal Powersupply
1000-1892	100db piezo audible alarm added to NEMA 4X enclosure except for NEMA 7 enclosures)
1000-1906	Amber/red dual light stack with 80db horn; general purpose
HA-71-HMI	Human/machine interface (HMI) software package (CD)
10-0181	NEMA 7 expansion plate
10-0321	Aluminum 19 expansion plate, 6 position, 7 x 19 inches; for 19 inch rack

Note: HA71N4 enclosure accepts 3 I/O cards; for additional I/O capacity order 10-0180 or 10-0178.

33.3 Spares

Spares	
Part Number	Description
10-0142	Replacement main I/O PCB for HA71/XP
10-0213	Replacement main I/O PCB for HA71PM (ribbon connector on circuit side of PCB)
10-0006	Replacement HA71 flat panel LCD module
10-0185	Replacement complete HA71 front panel electronic nest assembly including 10-0006 LCD
10-0231	Replacement HA71 front graphic panel
1000-1992	Replacement main I/O PCB fuse; 20 mm / 2 amp
0010-1110	I ² C 6 in. I/O Cable
0010-1180	I ² C 10 in. I/O Cable
1000-0078	"Big blue" magnetic wand for XP enclosures
1000-0076	"Small red" magnetic wand for NEMA 4X enclosures

34. HA72 Digital Gas Controllers



The Honeywell Analytics HA-72 is a 32, 48, 64 Channel Digital Gas Controller, designed to provide simultaneous display and alarm functions for up to 64 input variables. A graphic LCD displays monitored data as trends, bar graphs and engineering units. Three adjustable alarm levels are provided per channel. Relay outputs allow control of beacons, horns and other alarm events. A horn relay may be set for steady or pulsing operation. Analog inputs may be accepted and conditioned via Sensor specific analog input cards. The standard Modbus Master port allows input data to be retrieved from Modbus slave devices. These including proven in use devices such as the XNX™ Universal Transmitter and the Sensepoint XCD.

Enclosure options include a NEMA 4X enclosure (full-size or compact) and a 19 in. rack/panel mount enclosure. Flexible configuration allows you to customize inputs and outputs to your unique needs. Additional options may be added externally or in other enclosures. Includes magnetic keypad for non-intrusive control. Ethernet capability, zone logic, and voting make this an excellent choice for managing your gas detection system.

Flexible & Feature Rich

- Configure HA72 to accept inputs from many to 128 HA72 controllers to expand the system to meet your needs

- Custom software auto-recognizes and addresses Honeywell gas monitors (XNXTM and Sensepoint XCD)
- Connect Sensors directly to HA72 with bridge Touch and magnetic keypad allows nonintrusive operation in Sensor input board, saving installation time and hazardous locations eliminating need for extra devices
- Use HA72 as a discrete life safety system or network to a PLC or DCS for addressable operation
- Multiple password levels allow Ethernet access according to user need or qualification
- Various enclosure options available for hazardous and non-classified areas
- Programmable relays allow for a single relay contact point fo multiple devices

Certifications

- Class I, Div. 2, Groups A, B, C and D
- CAN/CSA-C22 2 No 152-M1984
- ANSI/ISA-12.13.01-2000
- CSA-C22.2 No. 213-M1987
- UL Std No. 1604, Third Ed. 1994
- ANSI/ISA-12.12.01-2010

Advanced, User-Friendly Interface

- Full array of visual indicators (bar graphs, multicolor cells, Sensor types and signal ranges. Daisy chain up flashing icons) and integrated alarm levels simplify and enhance monitoring, troubleshooting and trending functions

Improved zone logic reduces false alarm incidents

- SD card logs over one year of data including concentration levels, alarm events, min/max, calibrations and alarm resets
- NEMA 4X, NEMA 4X Stainless Steel, full and half 19 in. rack mount and wall-mount options
- Modbus master/slave functionality allows for simultaneous sending and receiving of data, through four RS-485 serial ports

Calibr - ation and Authorization Modes facilitate and speed commissioning time; Mimic Mode allows viewing of other HA72 controllers on the host display

34.1 HA72 Controller with Enclosure Options

HA72 Controller with Enclosure Options	
Part Number	Description
72-01	HA-72PM panel mount rack (includes bezel/rack hardware)
72-02	HA-72RM/1 one ST-72SM in full width 19 in. rack (64 channels)
72-03	HA-72RM/2 two ST-72SM's in full width 19 in. rack (128 channels)
72-04	HA-72N4 ST-72 in NEMA 4X large fiberglass enclosure
72-05	HA-72SS ST-72 in NEMA 4X 316 stainless steel enclosure
72-07	HA-72CP ST-72 in NEMA 4X compact non metallic enclosure

Note: All HA-72 models Include Magnetic Keypad for Non-Intrusive Control)

34. HA72 Digital Gas Controllers

34.2 Input and Output Options

Input and Output Options	
Part Number	Description
10-0332	Auxiliary standard alarm relay board
10-0344	I ² C analog 16 input board including EXC terminals
10-0348	I ² C analog 16 output board
10-0345	I ² C discrete alarm relay board (16, 5A Form C relays)
10-0350	I ² C programmable alarm relay board (16, 5A Form C relays)
10-0368	RS485 isolated expansion board
10-0347	I ² C bridge Sensor / mA input board (accepts up to 8 10-0192 modules)
10-0192	Dual bridge Sensor module (requires 10-0347)

34.3 Expansion Plates

Expansion Plates	
Part Number	Description
0010-0321	85-240 Vac universal input 150 watt 24 Vdc Powersupply (6.2 Amps)
0010-1269	100-240 Vac universal input 600 watt 24 Vdc Powersupply (27.0 Amps)

34.5 Spares

Spares	
Part Number	Description
10-0331	Replacement HA-72 main I/O
10-0373	Replacement complete HA-72 front panel electronic nest assembly; 10-0373 is display stack with front panel and ribbon cable only
10-0374	Replacement HA-72 front graphic panel
1000-1992	Replacement main I/O fuse ; 5 X20 mm / 2 Amp
0010-1287	6 foot long 40 pin I/O ribbon Cable
0010-1002	16 in. long 40 pin I/O ribbon Cable
0010-1110	6 in. long I ² C Cable
0010-1180	10 in. long I ² C Cable
0010-1188	6 foot long I ² C Cable

35. System 57

Control for Fire and Gas Detection



Honeywell Analytics has phased out the System 57. Last time buy orders for the System 57 was April 30, 2017. Support of the spares for the System 57 are planned to continue through April 30, 2022, barring no unforeseen supplier or component availability disruptions. Reference Bulletin# 2016152_Product Notice_System 57 End of Life



System 57 is a safe area, modular fire and gas detection control system suitable for indoor use. System 57 accepts inputs from flammable and toxic gas detectors, a large range of flame, smoke and heat detectors and manual call points.

Available outputs include relays, analogue signals and industry standard digital protocols. Packaged in either wall mounting cabinets or panel mounting racks, System 57 can be used stand alone or integrated into the heart of a fire and gas system. Please contact the Special Projects Team for detailed, customised systems.

5701: Single-channel gas control card with mA or mV input. Kit options include front or rear access, analogue output and relay options.

5704: Four-channel gas control card with mA or mV input. Kit options include front or rear access, analogue output (sink or source) and two relay interface options (Relay interface requires 2 rack slots).

5704F: Four-channel fire card for a standard 4-zone loop and offers 2 optional relay interfaces.

35.1 System 57 Components

	·
Interface Modules	
Part Number	Description
05701-A-0120	Engineering interface lead
05701-A-0309	Master Alarm Update Module Kit
05701-A-0312	Modbus Interface Module Kit-RS 485/RS 422
05701-A-0313	Modbus Interface Module Kit-RS 232
05701-A-0314	Event Print Module Kit-RS 232
05701-A-0339	Master Alarm Update Panel
SVIP3067-1	Terminal panel, 16 w rack, front access only
SVIP3067-2	Terminal panel, 8 w rack, front access only

35. System 57

Control for Fire and Gas Detection



8 Way Racks and Cabinets	
Part Number	Description
05701-A-0452	Cabinet - Wall Mounting - 8 Way

16 Way Racks and Cabinets	
Part Number	Description
05701-A-0451	Cabinet - Wall Mounting - 16 Way

Spare Rack Assembly Components	
Part Number	Description
05701-A-0600	Subrack - rear access - 1 way
05701-A-0506	Sub rack - Front Access - 8 Way
05701-A-0516	Sub rack - Rear Access - 8 Way
05701-A-0505	Sub rack - Front Access - 16 Way
05701-A-0515	Sub rack - Rear Access - 16 Way

Power Supplies	
Part Number	Description
05701-A-0405	Power Supply Unit- AC To DC-16 Way- 50 Watts
05701-A-0406	Power Supply Unit- AC To DC-8 Way- 50 Watts
05701-A-0440	Power Supply Module- 50 W (Upgrade For PSU & Sub Units)
05701-A-0441	Power Supply Subunit- 50 Watts (Upgrade For 16 Way PSU)

Rack and Cabinet Accessories	
Part Number	Description
05701-A-0365	Blanking Panel - Card Slot
05701-C-0471	Blanking Panel - 1U X 19" (16 Way)
05701-C-0474	Blanking Panel - 1U X ½ 19" (8 Way)

35. System 57





5701 Spares	
Part Number	Description
05701-A-0550	System 57 Calibration Plug
05701-A-0361	Engineering Card
05701-A-0325	DC Input Card
05701-A-0301	Single Channel Control Card - 4-20mA
05701-A-0302	Single Channel Control Card- Catalytic
05701-A-0351	Control Card- Single Channel- 5701
05701-A-0283	Sensor Drive Module - 4-20mA- 5701
05701-A-0284	Sensor Drive Module- Catalytic- 5701
05701-A-0285	Analogue Output Module- 5701
05701-A-0326	Field Interface Card
05701-A-0327	Relay Card-Double SPCO- 5701 (A1, A2 & Fault Single Pole Changeover Relays)
05701-A-0328	Relay Card-Triple SPCO-5701 (A1, A2, A3 Fault & Inhibit Single Pole Changeover
05701-A-0329	Relay Card- Triple DPCO- 5701 (2xA1, 2xA2, 2xA3 Fault & Inhibit Single Pole
	Changeover Relays)
05701-A-0330	High Integrity Relay Card-Double SPCO -5701 (2xA1, 2xA2, 2xA3 Fault & Inhibit
	Single Pole Changeover Relays)
05701-A-0339	Master alarm update panel
05701-C-0390	Interconnection Cable- 5701

5704 Spares	
Description	
Quad Relay Interface Card - 5704 (4 SPCO Relays)	
Relay Interface Assembly - 16 Relays - 5704 (12 SPCO, 4 SPST)	
4 Channel Control Card- Catalytic	
4 Channel Control Card- 4-20mA	
Interconnect Cable- 5704	

5704F Spares	
Part Number	Description
05704-A-0123	5704F Hex Relay Interface Card
05704-A-0133	5704F Relay Interface Assembly
05704-A-0146	5704F Fire Card
05704-A-0148	5704F Fire Status Panel

36. Unipoint DIN Rail Mounted Controller







The Unipoint is a simple DIN rail mounted controller offering integrators a flexible and low cost solution to incorporate flammable, toxic or Oxygen gas detection into their control systems. Unipoint can be easily installed into any plastic or metal enclosure for use indoor or outdoors and even in potentially explosive atmospheres.

With the addition of one of the Zareba range of flammable, toxic or Oxygen detectors, systems may be configured to monitor gases in a wide range of applications from car parks and boiler houses to analyzer shelters or crane cabs in offshore facilities.

Each controller is supplied complete with all necessary removable terminals, DIN rail socket and power connector.

36.1 Instrument

Unipoint	
Part Number	Description
2306B2000	Unipoint controller (mV input version)
2306B1000	Unipoint controller (mA input version)

36.2 Accessories

Accessories	
Part Number	Description
ZDINPSUX1 DIN rail mounted PSU. Input: 85-265Vac, 50/60Hz. Output: 24Vdc, 1A CSA, UL/UR,	
	CE approved

40.3 Spares

Spares	
Part Number	Description
2306B3010	Unipoint terminal block (x2)
2306B3020	Unipoint DIN rail socket
2306B3030	Unipoint power connector

37. Safe Area and Intrinsically Safe Transmitters Quick Reference Chart

Product	Gases Detected	Display	Certs.	Communication
Sensepoint		N (Y w/ XCD RFD)	CSA, ATEX, IS	4-20 mA, 2/3 Wire
Satelite XT	Co a Balaw	Y	UL, ATEX	4-20 mA, LonWorks®, Relay
Midas	See Below	Υ	ETL	4-20 mA, Modbus TCP
SPM Flex		Υ	ETL	4-20 mA, Modbus TCP, Relay
XCD Safe Area	Reference Price Sheet	Y	Class 1, Div. 2 Comp.	4-20 mA, Modbus RTU, Relay
Toxic Gas Sensor	Conconsint	Catalita VT	Midas	SPM Flex
	Sensepoint	Satelite XT		
Ammonia (NH3)	X	X	X	X
Carbon Monoxide (CO)	X	X	X	
Chlorine (Cl2)	X	X	X	X
Hydrogen (H2)	X	X	X	
Hydrogen sulfide (H2S)	X	X	X	X
Nitric oxide (NO)	X	X	X	
Oxygen (O2)	X	X	X	
Sulfur Dioxide (SO2)	X	X	X	X
Chlorine dioxide (ClO2)		X	Χ	X
Ethylene oxide (ETO)		X	X	
Hydrogen chloride (HCl)		X	Х	X
Hydrogen cyanide (HCN)		X	Х	X
Hydrogen fluoride (HF)		X	X	X
Nitrogen dioxide (NO2)		Х	X	X
Ozone (O3)		X	Χ	X
Phosgene (CCI2O)		X		X
Phosphine (PH3)		X	X	X
Other gasses (see price page)			Х	X
LEL Sensor	Sensepoint	Satelite XT	Midas	SPM Flex
Non-specific combustible	X	X	X*	

^{*}ETL certified to 25% LEL





Ash3, B2H6, Br, C2H2Cl2, C4F6, C5F8, CCl2O, CH3F, Cl2, ClF3, ClO2, CO, COCl2, DCE, ETO, F2, GeH4, H2, H2S, H2Se, HBr, HCl, HCN, HF, HMDS, LEL, N2H4, NF3, NH3, NO, NO2, O2, O3, PH3, SF6, SiH4, SO2, TEOS, TMB, TMP

The MST Satellite XT is a universal transmitter, utilizing plug and play technology, to monitor up to 40 different gases. The Satellite XT comes in two Versions, Analog and Digital. The Analog Version provides a 4-20 mA output that can be used to interface to PLC's. The Digital Version (FTT) utilizes the LonWorks® communication protocol and can used to interface with other devices on a LonWorks® Network. Both Versions feature an intuitive plain text menu interface, a large backlit LCD for information display, six key touch pad control for menu operation. Operating voltage 12-24 Vdc.

Note: Sensor Cell must be ordered separately. Specify Sensor part number when ordering.

Advantages

- Fast, reliable, specific gas detection
- Continuous real-time monitoring
- Interchangeable intelligent Sensor cell
- No dynamic gas calibration required
- Generic Sensor head electronics
- Low cost of ownership
- No moving parts to wear down or replace

38.1 Satellite XT - Analog Sensor Heads

Analog version transmitter. Provides a three wire 4-20 mA output. Sensor cell must be ordered separately. Please specify sensor part number when ordering. First sensor ordered with new Satellite receives Plan B pricing when available.

Satellite XT - Analog Sensor Heads		
Part Number	Description	
9602-0200	Satellite XT 4-20mA	
9602-0201	Satellite XT 4-20mA with UL fitting not certified to UL	
9602-0205	Satellite XT 4-20mA/R	
9602-0206	Satellite XT 4-20 mA/R UL with UL fitting not certified to UL	
9602-0250	Satellite XT 4-20mA/C	
9602-0251	Satellite XT 4-20mA/C UL with UL fitting not certified to UL	

Note: Sensor cell must be ordered separately. Please specify Sensor part number when ordering. First Sensor ordered with new Satellite receives Plan B pricing when available.

38.2 Satellite XT- Digital Sensor Heads

Digital version transmitter for use on a LonWorks® digital network. Sensor cell must be ordered separately. Please specify sensor part number when ordering. First sensor ordered with new Satellite receives Plan B pricing when available.

Satellite XT- Digital Sensor Heads		
Part Number	Description	
9602-0400	Satellite XT FTT	
9602-0401	Satellite XT FTT UL with UL fitting not certified to UL	
9602-0405	Satellite XT FTT/R	
9602-0450	Satellite XT FTT/C	
9602-0451	Satellite XT FTT/C UL with UL fitting not certified to UL	

Note: Sensor cell must be ordered separately. Please specify Sensor part number when ordering.



Satellite XT Expansion Modules

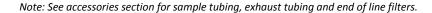
The Satellite XT modules allow easy expansion of the Satellite for various applications. Addition of the Extractive Module allows sampling from remote locations up to 30 m from the monitor. The Pyrolyzer is used to monitor for gases that must be "cracked" into HF for detection by an electrochemical Sensor.

Order the following parts for an Extractive System

- 1. XT Satellite (see section 1 and 2)
- 2. XT Extractive Module
- 3. Sensor Cell
- 4. Sample and Exhaust tubing
- 5. End of Line Filters

Order the following parts for a Pyrolyzer System

- 1. XT Satellite (see section 1 and 2)
- 2. XT Extractive Module
- 3. XT Pyrolyzer Module
- 4. Sensor Cell
- 5. Sample and Exhaust tubing
- 6. End of Line Filters





38.3 Satellite XT Expansion Modules

38.3 Satellite AT Expansion Modules		
Satellite XT Expansion Modules		
Part Number	Description	
20404-0200	MST Extractive Module XT Standard	
20404-0250	MST Extractive Module XT Combustible Gases	
20408-0110	MST Pyrolyzer Module XT NF3	
20408-0112	MST Pyrolyzer Module XT 1.2-DCE	
20408-0114	MST Pyrolyzer Module XT SF6	
20408-0116	MST Pyrolyzer Module XT CH3F	
20408-0120	MST Pyrolyzer Module XT C5F8	
20408-0122	MST Pyrolyzer Module XT C4F6	
9602.0014.10.00	Internal wiring including plug for the Satellite XT. Allows the extractive module to be attached. Must order	
	with pyrolyzer and pumped extractive module.	
20408-4010	Humidifier for pyrolizer	

38.4 Mounting Accessories - DIN Rail (Standard Satellite Mounting)

	•	
Mounting Accessories - DIN Rail (Standard Satellite Mounting)		
Part Number	Description	
9602.0050.10.02	Din Rail / PEM retrofit mounting (9602-0050-1	10-02)
9602.0051.10.02	Din Rail, L-Shaped mounting bracket	

38.5 Mounting Accessories - PEM Mounting

Mounting Accessories - PEM Mounting		
Part Number	Number Description	
9602.0050.10.00	PEM Mounting Bracket (9602-0050-10-00)	
9602.0051.10.00	PEM, L-Shaped Mounting Bracket (9602-0051-10-00)	



38.6 Sensor Extension Assemblies - Standard Electrochemical and O2

Sensor extension assembly with standard bulkhead fitting. For use with Toxins and O2 only.

Sensors Extension Assemblies		
Part Number	Description	
9602.0092.00.01	Satellite Sensor Extension Assembly - 3Ft. (9602-0090-03)	
9602.0090.00.01	Satellite Sensor Extension Assembly - 6Ft. (9602-0090-06)	
9602.0091.00.01	Satellite Sensor Extension Assembly - 10Ft. (9602-0090-10)	

38.7 Sensor Extension Assemblies - LEL Satellite ONLY

Sensor extension assembly with LEL bulkhead fitting. For use with Satellite Combustible (LEL) only.

Sensor Extension Assemblies - LEL Satellite ONLY		
Part Number	Description	
9602.0093.00.01	2M LEL extension assembly	
9602.0094.00.01	3M LEL extension assembly	

38.8 Duct Sampling Adaptors

Duct Sampling Adaptors	
Part Number	Description
9902-4200	Saddle for Flat Surface (980067)
9902-4110	Saddle 2" (980058)
9902-4000	Saddle 4" (980059)
9902-4010	Saddle 6" (980060)
9902-4020	Saddle 8" (980061)
9902-4030	Saddle 10" (980062)
9902-4040	Saddle 12" (980063)

38.9 Tubing and External Sample Line Filters

Tubing and Extern	Tubing and External Sample Line Filters	
Part Number	Description	
780248	End of line particulate filter, disposable	
1991-0147	End of line particulate filter for corrosive gases, disposable	
	This disposable filter provides protection against particulate build up in the sample line when monitoring for	
	corrosive gases.	
0235-0095	Union fitting - use to connect disposable filter to end of line	
1830-0055	End of line particulate filter for corrosive gases, reusable	
	This reusable filter housing provides protection against particulate build up in the sample line when	
	monitoring for corrosive gases. Replaceable filter element (P/N 0235-1072) purchased separately.	
0235-1072	Replacement "corrosive" filter elements (pk 100) - for use in 1830-0055 filter housing	
1830-0027	Freon filter for nitrogen triflouride (NF3) pyrolyzing gas Detector	
	Note: Not for use with C4F6, C5F8, CH3F, CH2F2 pyrolyzers.	
1830-0080	Freon filter for nitrogen triflouride (NF3) pyrolyzing gas Detector (extended life)	
	Note: Not for use with C4F6, C5F8, CH3F, CH2F2 pyrolyzers.	
102599	Tubing Teflon® FEP 1/4 in. OD x 1/8 in. ID (sample inlet) (price per foot)	
1991-0136	Tubing Teflon® FEP 1/4 in. OD x 1/8 in. ID (sample inlet) (100 ft. continuous length)	
100440	Tubing polypropylene 1/4 in. OD x 3/16 in. ID (exhaust) (price per foot)	
1991-0137	Tubing polypropylene 1/4 in. OD x 3/16 in. ID (exhaust) (100 ft. continuous length)	



38.10 Junction Box for Satellite XT

Junction box with terminals for 2 or 6 Satellites.

Junction Box for Satellite XT	
Part Number	Description
9630-0423	Junction box - 2 devices
9630-0424	Junction box – 6 devices

38.11 Sensor Accessories

Sensor Accessories	
Part Number	Description
9902-0051	90 degree sensor bracket for ambient monitoring. Can be used to mount remote sensor.
9602.0095.40.00	Calibration Cap for Satellite XT, all gases except LEL, O2, SO2, NO2, NO
180085	Calibration Cap for Satellite XT, for LEL, O2, SO2, NO2, NO
871911-TEC	Flow through housing for Satellite XT. Extension cable assembly required.

38.12 New/Replacement Cells for the Satellite

New/Replacement Cells for the Satellite	
Part Number	Description
9602-7101	Ozone (O3) 0.05 - 1.00 ppm (recommend 4 Sensors/yr)
9602-9600	1,2 trans trichloroethylene (DCE) 0-1000 ppm (for pyrolyzer only)
9602-6000	Arsine (AsH3) (2E) 0.03-1.00 ppm
9602-6004	Arsine (AsH3) (LT) 0.03-1.00 ppm
9602-6202	Diborane (B2H6) 0.05-1.00 ppm
9602-6800	Bromine (Br) 0.05-5.00 ppm
9602-9732	Hexafluorobutadiene (C4F6) 0-50 ppm (for pyrolyzer only)
9602-9730	Octafluorocyclopentene (C5F8) 0.5 - 20.0 ppm (low flow pyro only)
9602-9720	Methyl fluoride (CH3F) 0 - 0.0500 % v/v (for pyrolyzer only)
9602-5300	Chlorine (Cl2) 0.15-5.00 ppm
9602-7410	Chlorine trifluoride (CIF3) 0.03-1.00 ppm
9602-7400	Chlorine dioxide (ClO2) 0.03-1.00 ppm
9602-5400	Carbon monoxide (CO) 10-500 ppm



9602-6600	Phosgene (COCl2) 0.05 - 1.00 ppm
9602-6400	Fluorine (F2) 0.05-5.00 ppm
9602-6902	Germane (GeH4) 0.1-5.0 ppm
9602-5100	Hydrogen (H2) 0.010 - 1.000 % v/v
9602-5101	Hydrogen (H2) 0.05 - 4.00 % v/v
9602-5200	Hydrogen sulfide (H2S) 2 - 100 ppm
9602-5601	Hydrogen selenide (H2Se) 0.05 - 5.00 ppm
9602-7000	Hydrogen bromide (HBr) 1.0 - 30.0 ppm
9602-5800	Hydrogen chloride (HCl) 1.0 - 30.0 ppm
9602-5700	Hydrogen cyanide (HCN) 1.0 - 30.0 ppm
9602-6500	Hydrogen fluoride (HF) 0.5 - 10.0 ppm
9602-6715	Hexamethyldisilazane (HMDS) 0.010 - 0.500 % v/v
9602-6714	Hexamethyldisilazane (HMDS) 5 - 500 ppm
9602-7600	Hydrazine (N2H4) 0.02 - 1.00 ppm
9602-9700	Nitrogen trifluoride (NF3) 1 - 50 ppm (for pyrolyzer only)
9602-6704	Ammonia (NH3) 5-100 ppm
9602-6705	Ammonia (NH3) 15-1000 ppm
9602-6100	Phosphine (PH3) (2E) 0.05 - 1.00 ppm
9602-6102	Phosphine (PH3) (LT) 0.05 - 1.00 ppm
9602-9710	Sulfur hexafluoride (SF6) 0 - 0.500 % v/v (for pyrolyzer only)
9602-6301	Silane (SiH4) 1.0 - 50.0 ppm
9602-7500	Tetraethyl orthosilicate (TEOS) 5 - 100 ppm
9602-7510	Trimethylborate (TMB) 5 - 500 ppm
9602-7800	Trimethylphosphite (TMP) 1.0 - 20.0 ppm
9602-8000	Ethylene oxide (ETO) 0-20.0 ppm
9602-7200	Nitrogen oxide (NO) 5 - 250 ppm
9602-7300	Nitrogen dioxide (NO2) 0.5 - 25.0 ppm
9602-5900	Sulfur dioxide (SO2) 0.5 - 25.0 ppm
9602-9900	Lower Explosive Limit (LEL) 0 - 100% LEL
9602-5501	Oxygen (O2) 0.0 - 25.0 % v/v, 2 year warranty from dispatch

38.13 Network Accessories

Microprocessor controlled modules. Operates on all Digital Satellite Systems (LonWorks®).

Network Accessories	
Part Number	Description
9630-0441	Terminator FTT-10
20650-0100	MST iDisplay Surface Mount



38.14 Intelligent I/O Modules

Microprocessor controlled modules. Operates on all Digital Satellite Systems (LonWorks®).

•	
Network Accessories	
Part Number	Description
9660-0110	Addressable Relay Output Module – ROC
9660-0120	Supervisory Bus Module - Provides self healing ring topology & hardware supervision. – SBS
9660-0220	8 Channel Discrete Input Module (2 groups of 4) – DIC
9660-0330	4 Channel Analog Input Module (2 groups of 2)— AIM
9660-0440	Programmable Logic Module

38.15 Power Supplies

LonWorks® linked Powersupply with repeater will Powerup to 30 Satellites. 24 Vdc Powersupplies for FTT Satellites, I/O Modules and alarm devices.

Network Accessories	
Part Number	Description
9630-0414	Powersupply, 24 Vdc 120W for FTT Satellites, I/O modules, alarm devices, 5 Amps (104041)
9630-0415	Powersupply, 24 Vdc 240W for FTT Satellites, I/O modules, alarm devices, 10 Amps (104042)
MVIP3632-2A	2A 24 Vdc Powersupply in NEMA 4 enclosure
MVIP3632-5A	5A 24 Vdc Powersupply in NEMA 4 enclosure

39. Midas[®] Gas Detector Transmitter and Sensor Combination





AsH3, B2H6, BCl3, BF3, Br2, C4F6, C5F8, CH2F2, CH3F, CH4, Cl2, ClO2, CO, CO2, ETO, F2, GeH4, H2, H2Cl2Si, H2S, HBr, HCl, HCN, HF, NF3, NH3, NO, NO2, O2, O3, PH3, SF6, Si2H6, SiH4, SO2, TEOS, WF6

Extractive Midas® transmitters (universal) operate with sensor cartridges, for use as a local gas detector. Sensor Cartridges must be ordered separately. Units are powered by 24VDC or via Power over Ethernet PoE. Transmitters provides 0-22mA analog and Modbus/TCP Ethernet as standard outputs. Integral relays for A1, A2 and fault are included, and may be wired normally open or normally closed, latched or unlatched. Transmitters include Manual, Quick Start Guide, and (1) PG16 gland fitting for power in and relays out, 1/4" O.D.x 1/8" I.D. Sample Inlet tubing (10') [3m], 1/4" O.D x 3/16" I.D. Exhaust tubing (10') [3m], and a sample line tubing duct adapter (1283K1090). Order a sensor cartridge separately for each transmitter.

Order the following parts for a complete Midas® System:

- 1. Midas® or Midas® transmitter and cartridge kit
- 2. Sensor cell (if combo kit not purchased)
- 3. Sample and exhaust tubing
- 4. End of line filters

39.1 Transmitter Modules (sensor cartridge must be ordered separately)

Midas® Extractive Transmitter for Universal Gas Detection	
Part Number	Description
MIDAS-T-004	MIDAS Extractive Transmitter (Generation 2)

High Temperature Pyrolyzer Module for Perfluoro Compounds (PFC) Gas Detection (order separate transmitter unit)

Higher Temperature Pyrolyzer MIDAS® transmitters provide detection of C4F6, C5F8 and other gases. Unit includes a snap on pyrolyzer module that operates with any Universal MIDAS® Extractive Transmitter (order separately). Units are powered via direct connection to transmitter unit. Consult Honeywell Analytics for additional gases detectable with this option. Pyrolyzer includes Pyrolyzer Quick Start Guide and installation screws. Order the PFC cartridge (MIDAS-E-XCF) separately. Order the ventilated top cover (MIDAS-A-103) separately.

MIDAS-T-NP1: The Midas Pyrolyzer allows for the detection of NF3 and other CFX gases. Cost of ownership is low, as the Pyrolyzer has a field replaceable heater assembly with a lifespan of greater than two years. Additionally, the enhanced version of the Midas Pyrolyzer delivers:

- Improved detection accuracy of gas concentrations
- Lowered operation temperature that saves power and reduces system stress
- Reduced startup time to reach thermal stable state / be ready for gas detection

Midas® High Temperature Pyrolyzer Module	
Part Number	Description
MIDAS-T-NP1	MIDAS High Temperature Pyrolyzer Module

Note: If used with MIDAS-T-001 ensure latest software version is in use.

39. Midas[®] Gas Detector Transmitter and Sensor Combination



LonWorks Module for Midas® Transmitter Connection

Optional LonWorks interface module that mounts to and connects with any single, universal Midas® extractive transmitter with or without Pyrolyzer (order these separately) to provide bi-directional LonWorks connectivity; remote reset and remote control of the onboard relays. Unit is 24V DC powered and provides power and communications directly to the attached Midas® transmitter using special ethernet cross over cable (supplied). Includes Quick Start Guide and mounting bracket to the Midas® transmitter; rear panel installation screws are not supplied.

LonWorks Module for Midas® Transmitter Connection	
Part Number	Description
MIDAS-T-LON	MIDAS LonWorks Interface Module

Quad LonWorks Module for External Transmitter Connection

Optional Modbus/TCP to LonWorks converter gateway that can connect up to 4 Midas® transmitters (with or without pyrolyzers) to a LonWorks network. Requires separate 24V DC power supply and ethernet connector cables. Suitable for DIN rail mounting. Consult Honeywell Analytics for full technical details. Access to LonMaker programming is required (not included).

Quad LonWorks Module for External Transmitter Connection		
Part Number	Description	
MIDAS-A-035	MIDAS Quad LonWorks Module	

39.2 Midas® Transmitter & Cartridge Combined Kits

A complete kit including one universal MIDAS® transmitter unit (MIDAS-T-004) and one MIDAS® sensor cartridge can be ordered as a combined package. Each cartridge is supplied a 2 year warranty. This is the recommended kit for a new installation. Cartridge and Transmitter are packaged separately for ease of installation. The detectable range is listed (outside of deadband). With the exception of O2 (where ambient concentration is typically 20.9%), the sensors

will display zero when no gas is present.

Note: Kit includes Midas® transmitter and sensor cartridge. Order Sample/Exhaust tubing, end of line filters, pyrolyzers and other accessories separately.

Note: Midas® kits MUST ship complete.

Midas® Sensor Kits		
Part Number	Description	Range
MIDAS-K-NH3	Ammonia (NH ₃)	9-100 ppm
MIDAS-K-ASH	Arsine (AsH ₃),	18-200 ppb
	Germane (GeH4)	70-800 ppb
MIDAS-K-HCL	Boron Trichloride (BCl ₃), Dichlorosilane (H ₂ Cl ₂ Si), Hydrogen Bromide (HBr),	0.72-8 ppm
	Hydrogen Chloride (HCI)	
MIDAS-K-HFL	Boron Trfluoride (BF ₃), Hydrogen Fluoride (HF) Low Level (LDL = 0.22 ppm),	0.18-2 ppm
	Tungsten Hexafluoride (WF ₆) (Low)	
MIDAS-K-HFX	Boron Trifluoride (BF ₃),	0.72-8 ppm
	Hydrogen Fluoride (HF),	1.05-12 ppm
	Tungsten Hexafluoride (WF ₆)	1.05-12 ppm
MIDAS-K-BR2	Bromine (Br ₂), Chlorine Dioxide (ClO ₂)	0.036-0.4 ppm
MIDAS-K-CO2	Carbon Dioxide (CO2)	0.15-2.0%
MIDAS-K-COX	Carbon Monoxide (CO)	9-100 ppm
MIDAS-K-HAL	Chlorine (Cl₂),	0.18-2 ppm
	Fluorine (F ₂)	0.36-4 ppm

39. Midas® Gas Detector Transmitter and Sensor Combination



MIDAS-K-B2H	Diborane (B ₂ H ₆)	36-400 ppb
MIDAS-K-H2X	Hydrogen (H ₂)	90-1000 ppm
MIDAS-K-HCN	Hydrogen Cyanide (HCN)	1.8-20 ppm
MIDAS-K-H2S	Hydrogen Sulfide (H₂S)	3.6-40 ppm
MIDAS-K-LEL	Hydrogen (H ₂), Methane (CH ₄)	6.5-100% LEL
MIDAS-K-NOX	Nitric Oxide (NO)	9-100 ppm
MIDAS-K-NO2	Nitrogen Dioxide (NO₂)	1.05-12 ppm
MIDAS-K-O2S	Oxygen (O2), 3 year warranty	0.2-25% v/v
MIDAS-K-O3X	Ozone (O ₃)	0.036-0.4 ppm
MIDAS-K-PH3	Phosphine (PH ₃)	110-1200 ppb
MIDAS-K-SHL	Silane (SiH ₄) (Low Level)	0.18-2 ppm
MIDAS-K-SHX	Silane (SiH₄), Disilane (Si₂H ₆)	1.8-20 ppm
MIDAS-K-SO2	Sulfur Dioxide (SO2)	0.7-8 ppm
MIDAS-K-TEO	TEOS	3.6-40 ppm
MIDAS-K-XHF	Nitrogen Trifluoride (NF ₃),	3-40 ppm
	Methyl Fluoride (CH ₃ F)	6-120 ppm

39.3 Accessories and Options

Accessories and Options	
Part Number	Description
0235-0128	Flexible Conduit 21" - length
0235-0163	Flexible Conduit 27" - length
MIDAS-A-010	Replacement RJ45 restraining strap
MIDAS-A-032	MIDAS "L" Bracket for Vertical Mounting
MIDAS-A-036	MIDAS DIN Rail Mounting Kit
MIDAS-A-102	MIDAS Generation 1 Replacement Cover (Black)
MIDAS-A-103	Midas Vented Cover (Black) Generation 2
MVIP3632-2A	2A 24VDC power supply in NEMA 4 enclosure
MVIP3632-5A	5A 24VDC power supply in NEMA 4 enclosure

Sample Tubing & Adapters	
Part Number	Description
1991-0136	Inlet Tubing, FEP Teflon 100' 1/4 x 1/8
1991-0137	Exhaust Tubing, Poly 100' 1/4" OD
102599	Tubing Teflon® FEP 1/4" OD x 1/8" ID (Sample inlet) (Price per Foot)
100440	Tubing Polypropylene 1/4" OD X 3/16" ID (Exhaust) (Price per Foot)
1283K1090	Duct Adapter for 1/4" O.D. tubing for 4-16" round ducts
0235-0095	Union Fitting 1/4" tube, polypropylene

39. Midas® Gas Detector Transmitter and Sensor Combination



39.4 Consumables

Consumables	
Part Number	Description
MIDAS-A-007	Replacement MIDAS internal sample pump and mounting bracket
MIDAS-A-009	Replacement Internal Air Filter for MIDAS Universal Gas Detector
MIDAS-A-103	MIDAS vented cover, black (Gen 2)
1283B1300	Heater Service pack for MIDAS-T-03P
1830-0080	Freon Filter for NF ₃ Pyrolyzing Gas Detector (extended life). Note: Not for use with
	C_4F_6 , C_5F_8 , CH_3F , CH_2F_2 pyrolyzers
1830-0027	Freon Filter for NF ₃ Pyrolyzing Gas Detector. Note: Not for use with C ₄ F ₆ , C ₅ F ₈ , CH ₃ F,
	CH ₂ F ₂ pyrolyzers
0235-1072	Replacement "Corrosive" Filter Elements (pk 100)
	For use in 1830-0055 filter housing
780248	End of Line Particulate Filter. For use as End of Line filter for Non-Corrosive gases.
1830-0055	End of Line Particulate Filter for Corrosive Gases, Reusable. This reusable filter
	housing provides protection against particulate build up in the sample line when
	monitoring for Corrosive Gases. Replaceable filter element (P/N 0235-1072)
	purchased separately
1991-0147	End of Line Particulate Filter for Corrosive Gases, Disposable. This disposable filter
	provides protection against particulate build up in the sample line when monitoring
	for Corrosive Gases.

39.5 Sensor Cartridges for Midas®

Several MIDAS® cartridges can be configured to read a number of different gases based on a common chemical family. Actual details for the sensor detection range are included in the sensor cartridge data sheet and the MIDAS® technical manual. MIDAS® sensor cartridges can be ordered as part of a Kit with the universal MIDAS® transmitter, or as a replacement part. The detectable range is listed. With the exception of O2 (where ambient concentration is typically 20.9%), the sensors will display zero when no gas is present. All Cartridges with the format MIDAS-E-XXX are supplied with a 2 year (24 month) warranty.

Midas® Sensor Car	tridges		
Part Number	Description	Range	
MIDAS-E-NH3	Ammonia (NH ₃)	9-100 ppm	
MIDAS-E-ASH	Arsine (AsH ₃)	18-200 ppb	
	Germane (GeH ₄)	0-800 ppb	
MIDAS-E-HCL	Boron Trichloride (BCl ₃), Dichlorosilane (H ₂ Cl ₂ Si), Hydrogen Bromide	0.72-8 ppm	
	(HBr), Hydrogen Chloride (HCl)		
MIDAS-E-HFL	Boron Trfluoride (BF ₃), Hydrogen Fluoride HF (low level), Tungsten Hexafluoride	0.18-2 ppm	
	(WF ₆) (Low)		
	May require export license from the US Department of Commerce		

39. Midas® Gas Detector Transmitter and Sensor Combination



MIDAS-E-HFX	Boron Trifluoride (BF ₃)	0.72-8 ppm
	Hydrogen Fluoride (HF)	1.05-12 ppm
	Nitrogen Trifluoride (NF ₃)	3.6-40 ppm
	Tungsten Hexafluoride (WF ₆)	1.05-12 ppm
MIDAS-E-BR2	Bromine (Br ₂), Chlorine Dioxide (CIO ₂)	0.036-0.4 ppm
MIDAS-E-CFX	Difluoromethane (CH ₂ F ₂)	16-240 ppm
	Hexafluorobutadiene (C ₄ F ₆	3-40 ppm
	Methyl Fluoride (CH ₃ F)	8-120 ppm
	Octofluorocyclopentene (C ₅ F ₈)	3-40 ppm
MIDAS-E-CO2	Carbon Dioxide ECC cartridge	0.15-2.00 % v/v
MIDAS-E-COX	Carbon Monoxide (CO)	9-100 ppm
MIDAS-E-HAL	Chlorine (Cl ₂)	0.18-2 ppm
	Fluorine (F ₂)	0.36-4 ppm
MIDAS-E-B2H	Diborane (B ₂ H ₆)	0036-0.4 ppm
MIDAS-E-H2X	Hydrogen (H ₂)	90-1000 ppm
MIDAS-E-HCN	Hydrogen Cyanide (HCN)	1.8-20 ppm
MIDAS-E-H2S	Hydrogen Sulphide (H ₂ S)	3.6-40 ppm
MIDAS-E-LEL	Hydrogen (H ₂), Methane (CH ₄)	6.5-100% LEL
	Note: MIDAS-E-LEL Cartridge carries a 2-years warranty but can b	e calibrated up to
	5 years.	
MIDAS-E-NOX	Nitric Oxide (NO)	9-100 ppm
MIDAS-E-NO2	Nitrogen Dioxide (NO ₂)	4.05.43
MIDAS-L-O2S		1.05-12 ppm
	Oxygen (O2), 3 year warranty	0.2-25% v/v
MIDAS-E-O3X		**
	Oxygen (O2), 3 year warranty	0.2-25% v/v
MIDAS-E-O3H	Oxygen (O2), 3 year warranty Ozone (O ₃)	0.2-25% v/v 0.036-0.4 ppm
MIDAS-E-O3H MIDAS-E-PH3	Oxygen (O2), 3 year warranty Ozone (O ₃) Ozone (O ₃) High Level)	0.2-25% v/v 0.036-0.4 ppm 0.036-0.7 ppm
MIDAS-E-O3H MIDAS-E-PH3 MIDAS-E-SHL	Oxygen (O2), 3 year warranty Ozone (O ₃) Ozone (O ₃) High Level) Phosphine (PH ₃)	0.2-25% v/v 0.036-0.4 ppm 0.036-0.7 ppm 110-1200 ppb
MIDAS-E-O3H MIDAS-E-PH3 MIDAS-E-SHL MIDAS-E-SHX	Oxygen (O2), 3 year warranty Ozone (O ₃) Ozone (O ₃) High Level) Phosphine (PH ₃) Silane (SiH ₄) (Low Level)	0.2-25% v/v 0.036-0.4 ppm 0.036-0.7 ppm 110-1200 ppb 0.18-2 ppm
MIDAS-E-O3H MIDAS-E-PH3 MIDAS-E-SHL MIDAS-E-SHX MIDAS-E-SO2	Oxygen (O2), 3 year warranty Ozone (O ₃) Ozone (O ₃) High Level) Phosphine (PH ₃) Silane (SiH ₄) (Low Level) Silane (SiH ₄), Disilane (Si ₂ H ₆)	0.2-25% v/v 0.036-0.4 ppm 0.036-0.7 ppm 110-1200 ppb 0.18-2 ppm 1.8-20 ppm
MIDAS-E-O3H MIDAS-E-PH3 MIDAS-E-SHL MIDAS-E-SHX MIDAS-E-SO2 MIDAS-E-TEO	Oxygen (O2), 3 year warranty Ozone (O ₃) Ozone (O ₃) High Level) Phosphine (PH ₃) Silane (SiH ₄) (Low Level) Silane (SiH ₄), Disilane (Si ₂ H ₆) Sulphur Dioxide (SO ₂) TEOS Difluoromethane (CH ₂ F ₂)**	0.2-25% v/v 0.036-0.4 ppm 0.036-0.7 ppm 110-1200 ppb 0.18-2 ppm 1.8-20 ppm 0.7-8 ppm
MIDAS-E-O3H MIDAS-E-PH3 MIDAS-E-SHL MIDAS-E-SHX MIDAS-E-SO2 MIDAS-E-TEO	Oxygen (O2), 3 year warranty Ozone (O ₃) Ozone (O ₃) High Level) Phosphine (PH ₃) Silane (SiH ₄) (Low Level) Silane (SiH ₄), Disilane (Si ₂ H ₆) Sulphur Dioxide (SO ₂) TEOS	0.2-25% v/v 0.036-0.4 ppm 0.036-0.7 ppm 110-1200 ppb 0.18-2 ppm 1.8-20 ppm 0.7-8 ppm 3.6-40 ppm
MIDAS-E-O3H MIDAS-E-PH3 MIDAS-E-SHL MIDAS-E-SHX MIDAS-E-SO2 MIDAS-E-TEO	Oxygen (O2), 3 year warranty Ozone (O ₃) Ozone (O ₃) High Level) Phosphine (PH ₃) Silane (SiH ₄) (Low Level) Silane (SiH ₄), Disilane (Si ₂ H ₆) Sulphur Dioxide (SO ₂) TEOS Difluoromethane (CH ₂ F ₂)**	0.2-25% v/v 0.036-0.4 ppm 0.036-0.7 ppm 110-1200 ppb 0.18-2 ppm 1.8-20 ppm 0.7-8 ppm 3.6-40 ppm
MIDAS-E-O3X MIDAS-E-O3H MIDAS-E-PH3 MIDAS-E-SHL MIDAS-E-SHX MIDAS-E-SO2 MIDAS-E-TEO MIDAS-E-XCF	Oxygen (O2), 3 year warranty Ozone (O ₃) Ozone (O ₃) High Level) Phosphine (PH ₃) Silane (SiH ₄) (Low Level) Silane (SiH ₄), Disilane (Si ₂ H ₆) Sulphur Dioxide (SO ₂) TEOS Difluoromethane (CH ₂ F ₂)** Hexafluorobutadiene (C ₄ F ₆)**	0.2-25% v/v 0.036-0.4 ppm 0.036-0.7 ppm 110-1200 ppb 0.18-2 ppm 1.8-20 ppm 0.7-8 ppm 3.6-40 ppm 0-40 ppm 0-240 ppm
MIDAS-E-O3H MIDAS-E-PH3 MIDAS-E-SHL MIDAS-E-SHX MIDAS-E-SO2 MIDAS-E-TEO	Oxygen (O2), 3 year warranty Ozone (O ₃) Ozone (O ₃) High Level) Phosphine (PH ₃) Silane (SiH ₄) (Low Level) Silane (SiH ₄), Disilane (Si ₂ H ₆) Sulphur Dioxide (SO ₂) TEOS Difluoromethane (CH ₂ F ₂)** Hexafluorobutadiene (C ₄ F ₆)** Octofluorocyclopentene (C ₅ F ₈)**	0.2-25% v/v 0.036-0.4 ppm 0.036-0.7 ppm 110-1200 ppb 0.18-2 ppm 1.8-20 ppm 0.7-8 ppm 3.6-40 ppm 0-40 ppm 0-240 ppm

40. SPM Flex Chemcassette® Tape-Based Gas Detector





The SPM Flex, the next evolution of our SPM and TLD gas Detectors with Chemcassette® tape technology, is capable of working as both a fixed and a portable unit. The monitor detects the ultrasensitive gases inherent in your operations, including hydrides, mineral acids and amines.

Our Chemcassette tape technology shows the presence of gas quickly and definitively with a physical record. So you can prevent costly downtime from false alarms.

To order a complete system:

- 1. Select Base Unit (Section 1)
- 2. Chemcassette tape(s) per calibration (Chemcassette Section 2)
- 3. Select Base Unit Options (Section 3)
- 4. Select Accessories and Installation Items (Section 4)

40.1 Base Units

Fixed Units include Standard Wall Mounting Bracket, Battery, PowerSupply, Regional PowerCord, CD and Quick Start Guide.

Portable Units include Handle assembly, clean-room suitable shoulder strap, Battery, PowerSupply, Regional PowerCord, CD and Quick Start Guide.

SPM Flex Fixed Units		
Part Number	Description	
SPMF-F1US	SPM Flex Fixed Unit for North America	
SPMF-F1AU	SPM Flex Fixed Unit for Australia	
SPMF-F1CH	SPM Flex Fixed Unit for Switzerland	
SPMF-F1DK	SPM Flex Fixed Unit for Denmark	
SPMF-F1EU	SPM Flex Fixed Unit for Europe	
SPMF-F1GB	SPM Flex Fixed Unit for Great Britain	
SPMF-F1JP	SPM Flex Fixed Unit for Japan	

SPM Flex Portable Units	
Part Number	Description
SPMF-P1US	SPM Flex Portable Unit for North America
SPMF-P1AU	SPM Flex Portable Unit for Australia
SPMF-P1CH	SPM Flex Portable Unit for Switzerland
SPMF-P1DK	SPM Flex Portable Unit for Denmark
SPMF-P1EU	SPM Flex Portable Unit for Europe
SPMF-P1GB	SPM Flex Portable Unit for Great Britain
SPMF-P1JP	SPM Flex Portable Unit for Japan

40.2 Chemcassette Tapes

Chemcassette tapes are individually formulated for a specific gas or family of gases. Each Chemcassette tape is a proprietary chemical reagent system that acts as both a trapping and analysis medium, detecting and measuring ppb/ppm amounts of target gas with excellent sensitivity and response speed. Each Chemcassette tape is gas tested to assure proper response when installed in-field in a Honeywell Analytics/MDA Scientific gas Detector.

90 Day XP Chemcassette Tapes — For SPM Flex Only (Provides up to 90 Days of continuous monitoring)		
Part Number	Description	
1265-3000	SPM Flex CC XP Hydrides (90)	
1265-3001	SPM Flex CC XP Mineral Acids (90)	
1265-3002	SPM Flex CC XP Chlorine (90)	
1265-3003	SPM Flex CC XP Ammonia (90)	
1265-3007	SPM Flex CC XP Phosgene (90)	
1265-3012	SPM Flex CC-U XP Mineral Acids (90)	

40. SPM Flex Chemcassette® Tape-Based Gas Detector



30 Day Chemcassette Tapes — For SPM Flex Only (Provides up to 90 Days of continuous monitoring)		
Part Number	Description	
1265-3004	SPM Flex CC Fluorine Oxidizers (30)	
1265-3005	SPM Flex CC Sulfur Dioxide (30)	
1265-3006	SPM Flex CC Diisocyanates (30)	
1265-3008	SPM Flex CC Hydrazine (30)	
1265-3010	SPM Flex CC Hydrogen Peroxide (30)	
1265-3011	SPM Flex CC Ozone (30)	

14 Day Chemcasse	14 Day Chemcassette Tapes — For SPM Flex Only (Provides up to 2 weeks of continuous monitoring)	
Part Number	Description	
1265-4000	SPM Flex CC-S XP Hydrides	
1265-4001	SPM Flex CC-S XP Mineral Acids	
1265-4002	SPM Flex CC-S XP Chlorine	
1265-4003	SPM Flex CC-S XP Ammonia	
1265-4004	SPM Flex CC-S Fluorine Oxidizers	
1265-4005	SPM Flex CC-S Sulfur Dioxide	
1265-4006	SPM Flex CC-S Diisocyanates	
1265-4007	SPM Flex CC-S XP Phosgene	
1265-4008	SPM Flex CC-S Hydrazine	
1265-4009	SPM Flex CC-S Hydrogen Cyanide	
1265-4010	SPM Flex CC-S Hydrogen Peroxide	
1265-4011	SPM Flex CC-S Ozone	
1265-4012	SPM Flex CC-S-U XP Mineral Acids	

40.3 Options and Spares

To order the following options, add the part numbers to above base unit. Prices listed below are additional to the cost of the base unit. Note: Some options are not compatible with others. Please contact Honeywell Analytics before ordering.

Options and Spares	
Part Number	Description
SPMF-WAND	Sample Wand Kit (includes probe, filter/holder, coiled tube, mounting hardware)
SPMF-STRP	Clean Room Suitable Shoulder Strap
SPMF-HNDL	Handle for Portable configuration
SPMF-WTHR	Weather Shield for use in Fixed configuration (includes mounting hardware)

40.4 Accessories and Installation Items

SPM Flex Accessor	SPM Flex Accessories and Installation Items	
Part Number	Description	
SPMF-PWRS	Universal PowerSupply (no cord)	
874333	North America (120VAC) PowerCord	
874557	Australia PowerCord	
874558	Great Britain	
874559	Denmark	
874560	Switzerland	

40. SPM Flex Chemcassette® Tape-Based Gas Detector



874561	Europe
1874-0112	Japan (100VAC)
SPMF-PCON	6' PowerCable with Weather proof connector (for connection to user 24VDC)
SPMF-ECON	10' Ethernet Cable with Weather proof connector male, standard male
SPMF-CCON	Communication SPM Flex side connector, 6' communication Cable with weather-proof connector
1265-2014	SPM Flex Optics Test Card
0235-0095	Union fitting — use to connect disposible end of line filter to tubing
102599	Tubing ¼" O.D x 1/8" I.D. FEP - for sample inlet, price per foot
100440	Tubing polypropylene ¼" O.D. x 3/15" I.D - for exhaust, price per foot
1265A0070	Main PCB
1265A0074	User interface / display PCB
1265-0153	User interface ribbon cable
1265A0080	RFID PCB
1265A0321	RFID/Hall Effect cable assembly
1265-0167	9 Cell Battery pack (factory only)

SPM Flex Mounting Accessories	
Part Number	Description
SPMF-MBST	Standard Mounting Bracket for Fixed Unit (for SPM Flex only)
SPMF-MBRF	Retro-Fit Mounting Bracket for Fixed Unit (compatible with original SPM)

40.5 Service Parts

These parts are for field or factory service work.

Service Parts	
Part Number	Description
1265A0413	Pump
1265A0404	Optics and Gate motor assembly
1265A0422	Tape advance stepper motor
1265-0035	Clear door
1265A0182	Replacement latch assembly for clear door
0140-0013	Coin Battery CR2302 Energizer
1265-0082	Power switch / USB cover
1265-0165	Warning label for power switch / USB cover
1265-0036	Clear door gasket
SPMF-DCET	Dust cover For Ethernet port SPMF-DCET
SPMF-DCCO	Dust cover For communication port SPMF-DCCO
SPMF-DCPO	Dust cover For power port

Consumables	
Part Number	Description
1991-0147	Corrosive end of line filter
780248	Standard end of line filter
871134	Small acid scrubber / filter
710235	Standard size acid scrubber / filter

41. Accessories: Horns & Strobes

WH-126143



Mount 4 multi-tone strobe (Clear Lens)

The SpectraAlert Advance series of notification is designed to simplify installations, with features such as plug in design, 11 field selectable candela settings, and 4 color lens options.

4-wire used when horn/strobe wired separately 2-wire used when both horn/strobe wired simultaneously

Horns & Strobes Part Number Description P4W-P Horn/strobe 24 Vdc, 4 wire (Clear Lens) P2WL-P Horn/strobe 24 Vdc, 2 wire (Clear Lens) P2WK-P Horn/strobe 24 Vdc, 2 wire, outdoor (Clear Lens) P2WHK-P Horn/strobe 24 Vdc, 2 wire, outdoor, high candela (Clear Lens) PC2W-P Horn/strobe 24 Vdc, 2 wire, ceiling mount (Clear Lens) Horn/strobe 24 Vdc, 2 wire, ceiling mount, high candela (Clear Lens) PC2WH-P SPSWK-P Speaker/strobe, selectable candela, white, outdoor (Clear Lens)

Horn & Strobe Accessories	
Part Number	Description
MP120KL	120 Vac Mounting plate adaptor (for use with 2-wire horn/strobes)
LENS-B2	Lens - blue, wall mount
LENS-R2	Lens - red, wall mount
LENS-A2	Lens - amber, wall mount
LENS-G2	Lens - green, wall mount

Strobe	
Part Number	Description
SCW-P	Strobe, standard candela, white, ceiling mount
SW-P	Strobe, standard candela, white, wall mount
SWH-P	Strobe, high candela, white, wall mount
SWHK-P	Strobe, high candela, white, wall mount, outdoor
SVIP3532-2	Beacon, Class I, Div. 1 24 Vdc, red

Horn	
Part Number	Description
M-503973	Horn, 120 Vac, indoor application, M-503973 Edwards 874-n5, 78-103db UL/FM approved, White
M-503974	Horn (NEMA 4X), 120 Vac, indoor or outdoor application, M-503973 Edwards 876-n5, 78-103db UL/FM approved, White
M-501767	Explosion proof horn, 120 Vac, Class I Div. 1, M-501767 Federal Signal 31X-120-3 Explosion Proof Horn 120VAC Class 1 Div 1
SVIP3532-1	Horn, Class I, Div. 1 24 Vdc
SVIP3795-R24	Strobe red 24V Class 1 Div. 2 3/4" pipe mount
SVIP3795-R24DM	Strobe Red 24V Class 1 Div. 2 direct mount

41. Accessories: Power Supplies & Additional Accessories

Description
KIT, RAEPOINT W/ALARM BAR, REMOTE, 2.4G
KIT,RAEPOINT W/ALARM BAR, REMOTE, 2.4G, AC POWERED
KIT, RAEPOINT W/ALARM BAR, REMOTE, 2.4G, ATEX/IECEX
RAEPOINT, RRA2000.ATEX/IECEX.REMOTE.RM2400A_2.4GHZ.W/O ALARM BAR.STD. KIT
RAEPOINT, RRA2000.ATEX/IECEX.ROUTER.RM2400A_2.4GHZ.W/O ALARM BAR.STD. KIT
RAEPOINT, RRA2000.CSA.REMOTE.RM2400A_2.4GHZ.W/O ALARM BAR.STD. KIT
RAEPOINT, RRA2000.CSA.ROUTER.RM2400A_2.4GHZ.W/O ALARM BAR.STD. KIT

41.2 Power Supplies & Additional Accessories

Power Supplies	Power Supplies & Additional Accessories	
Part Number	Description	
M-600268	24 Vdc-6.5A Powersupply, no enclosure	
M-600008	Relay plug, terminates 4/20 signal at Sensor providing relay output. 3 A @ 24 Vdc rating	
M-600031	GM-JR-PS GM-JR Powersupply, 24 Vdc, 1A	
M-600400	Powersupply, 24 Vdc, 6.5 A, NEMA 12	
M-510150	Liquid crystal display for use with EC-F9 and EC-FX	
M-511300	DRM, dual relay module	
M-507960	UPS750VA 120V APC Smart-UPS XL 750 VA	
M-508370	UPS1000VA 120V APC Smart-UPS XL 1000 VA	
MP120KL	120 Vac Adapter Mounting plate	
2441-0001	SS tag Kit, 3.0 x 0.5 in. #10 (M5) screw (Tag list and text must be supplied with PO)	
10-0282	Push Button for Div 2 Hazardous Areas	

41. Accessories: Calibration Reference Guide

41.3 Calibration Reference Guide

Calibration Reference Guide				
Product Line	Description	Flow Rate		
XNX - EC	XNX transmitter for use with electrochemical Sensors	300 - 375 ml/min		
XNX - MPD	XNX transmitter for use with multi-purpose Detector	0.5 liter/min		
Apex	Apex toxic and combustible gas Detector	0.7 - 1.0 liter/min		
XCD	Sensepoint XCD - zero gas (Air or N2)	0.5 - 1.0 liter/min		
XCD	Sensepoint XCD - O2, H2, H2S and CO	0.5 - 1.0 liter/min		
XCD	Sensepoint XCD - flammable cat	1.0 - 1.5 liter/min		
XCD	Sensepoint XCD - flammable IR	0.4 - 0.6 liter/min		
XCD	Sensepoint XCD - IR CO2	0.4 - 0.6 liter/min		
Series 3000	Series 3000 toxic and oxygen Sensors	300 - 375 ml/min		
705	705 and 705HT flammable Sensors	1.5 liter/min		
Sensepoint	Sieger Sensepoint flammable	1.0 - 1.5 liter/min		
Sensepoint	Sieger Sensepoint toxic	1.0 - 1.5 liter/min		
Satellite XT	Satellite XT	0.3 liter/min		
Midas	Midas	0.5 liter/min		
Optima Plus	Optima Plus with remote gassing cell	0.3 liter/min		
Optima Plus	Optima Plus with gassing cover	2.0 liter/min		
Optima Plus	Optima Plus with flow housing	2.0 liter/min		

41. Accessories: Calibration Kits and Components

41.4 Calibration Kits and Components

41.4 Calibration Kits and Co	omponents		
XNX™	Product	Contains	Part Number
Tubing, flow adaptor, regulator, carrying case	XNX Toxic Kit	998-100-004, S3KCAL, ZCALREG1 (.3 LPM), 998-100-003	XNXTOXKit
Tubing, flow adaptor, regulator, carrying case	XNX Toxic Kit (HCN, Cl2, HF, NH3, and HCl)		XNXTOXKit2
Tubing, flow adaptor, regulator, carrying case	XNX Combustibles Kit	106459, 1226A0411, N600 1001 33 (.5 LPM), 998-100-003	XNXCOMBKit
XCD	Product	Contains	Part Number
Tubing, flow adaptor, regulator, carrying case	XCD Toxic Kit*	998-100-004, S3KCAL, N600 1001 33, 998-100-003	XCDTOXKit
Tubing, flow adaptor, regulator, carrying case	XCD Combustibles Kit	998-100-004, S3KCAL, 998-100-012, 998-100-003	XCDCOMBKit
Calibration cover, potentiometer, adjustment tool, flow housing, regulator, tubing	XCD RTD	2106B2114, 02000-A-1645, 998-100-003, 998-100-012, 998-100-004	XCDRTDKit
Tubing, flow adaptor, regulator, carrying case	XCD RFD	998-100-004, 00780-A-0035, 998-100-003, 998-100-012, 998-100-003	XCDRFDKit
* XCDTOXKit should be used with XCD-Flam	mable IR		
Optima	Product	Contains	Part Number
Tubing, regulator, carrying case	RGC	998-100-004, ZCALREG1 (.3LPM), 998-100-003	OPTIMARGCCALKit
Tubing, gas cover, regulator, carrying case	Non-RGC	998-100-004, 2108D0258, 998-100-002 (2LPM), With GAS CELL, 998-100-003	OPTIMACALKit
Excel	Product	Contains	Part Number
Test filters	Excel	2104N2999	2104N2999
Series 3000	Product	Contains	Part Number
Tubing, flow adaptor, regulator, carrying case; Gassing Cover not included with RGC Cal Kit, please include carry case 998-100-003		998-100-004, S3KCAL, ZCALREG1(.3LPM), 998-100-003	XNXTOXKit
705	Product	Contains	Part Number
Tubing, flow adaptor, regulator, carrying case		998-100-004, 00780-A-0035, 998-100-012 (1.5LPM), 998-100-003	705CALKit
Sensepoint	Product	Contains	Part Number
Tubing, flow adaptor, regulator, carrying case		0310-2021, 02000-A-1645, 998-100-012 (1.5LPM), 998-100-003	SNSPTCALKit

Note: Cal Kits do not include gas. Gas must be ordered separately and will arrive separately.

case

(1.5LPM), 998-100-003

41. Accessories: Calibration Kits and Components

Satellite	Product	Contains	Part Number
Tubing, flow adaptor, regulator, carrying case	EC	0310-2021, 9602.0095.41.00, ZCALREG1(.3LPM), 998-100-003	SATECCALKit
Tubing, flow adaptor, regulator, carrying case	LEL	998-100-004, 180085(O2, LEL, SO2, NO2, NO), ZCALREG1(.3LPM), 998-100-003	SATLELCALKit

Midas	Product	Contains	Part Number
Tubing, flow adaptor, regulator, carrying case		102599, N600 1001 10, 998-100-003	MIDASCALKit

^{*} XCDTOXKit should be used with XCD-Flammable IR

Accessories and Cal Components	Product	Contains	Part Number
Inert tubing Tygon 3/16 in. ID x 5/16 in. OD	FEP lined Tygon tubing by ft.	5 ft. recommended	998-100-004
Tubing Tygon 1/4 in. ID x 7/16 in. OD	Tygon tubing by ft.	6 ft. recommended	106459
1/4 in. OD x 1/8 in. ID FEP tubing	FEP lined Tygon tubing by ft.		102599
Regulator series 715, 1.5 LPM	Regulator 1.5 LPM		998-100-012
Regulator series 715, 1 LPM	Regulator 1 LPM		998-100-015
Regulator series 715, .5 LPM	Regulator .5 LPM		N600 1001 33
Pre-set 0.3 Lpm flow regulator	Regulator 0.3 LPM		ZCALREG1
Regulator demand on flow	Demand flow regulator		N600 1001 10
Carrying case cal Kit	Cal Kit carry case		998-100-003
Calibration cup (flow adaptor)	Calibration cup		S3KCAL
Optima plus gassing cover (red)	Optima gassing cover		2108D0258
S/Line Excel test filters PK8 VAR	Excel test filters		2104N2999
Housing sample flow SS	Flow housing ss		00780-A-0035
S2K flow housing assembly	Flow housing		02000-A-1645

Note: Cal Kits do not include gas. Gas must be ordered separately and will arrive separately.

41. Accessories: Calibration Gases

41.5 Toxic Gases

Toxic Gases					
For Use With	Gas Type	Concentration	Cylinder Size	Thread Size (Female)	Part Number
XNX/XCD/S3K	SiH4 Silane	5 ppm	58 L	5/8 in. x 18 in.	1991-0167
XNX/XCD/S3K	SO2	5 ppm	34 L	5/8 in. x 18 in.	GFV450
XNX/XCD/S3K	SO2	10 ppm	58 L	5/8 in. x 18 in.	GFV177
XNX/XCD/S3K	SO2	25 ppm	58 L	5/8 in. x 18 in.	571361
XNX/XCD/S3K	H2S / N2	10 ppm	58 L	5/8 in. x 18 in.	2992-0033
XNX/XCD/S3K	H2S / N2	25 ppm	58 L	5/8 in. x 18 in.	998-024-003
XNX/XCD/S3K	H2S / Air	25 ppm	58 L	5/8 in. x 18 in.	998-024-001
XNX/XCD/S3K	H2S / N2	50 ppm	58 L	5/8 in. x 18 in.	998-024-004
XNX/XCD/S3K	NH3 / N2	25 ppm	34 L	5/8 in. x 18 in.	GFV250
XNX/XCD/S3K	NH3 / N2	25 ppm	58 L	5/8 in. x 18 in.	GFV213
XNX/XCD/S3K	NH3 / N2	50 ppm	58 L	5/8 in. x 18 in.	2992-0015
XNX/XCD/S3K	NH3 / Air	100 ppm	58 L	5/8 in. x 18 in.	M-501041
XNX/XCD/S3K	NH3 / Air	500 ppm	58 L	5/8 in. x 18 in.	M-507546
XNX/XCD/S3K	Cl2	2 ppm	58 L	5/8 in. x 18 in.	GFV253
XNX/XCD/S3K	Cl2 / N2	5 ppm	58 L	5/8 in. x 18 in.	571084
XNX/XCD/S3K	Cl2	10 ppm	58 L	5/8 in. x 18 in.	GFV252
XNX/XCD/S3K	NO2 / N2	5 ppm	58 L	5/8 in. x 18 in.	2992-0008
XNX/XCD/S3K	NO / N2	100 ppm	58 L	5/8 in. x 18 in.	2992-0035
XNX/XCD/S3K	N2	99.8% V/V	58 L	5/8 in. x 18 in.	2992-0011
XNX/XCD/S3K	H2 / Air	500 ppm	103 L	5/8 in. x 18 in.	1991-0159
XNX/XCD/S3K	H2 / Air	1000 ppm	58 L	5/8 in. x 18 in.	2992-0016
XNX/XCD/S3K	H2 / Air	5000 ppm	58 L	5/8 in. x 18 in.	571820
XNX/XCD/S3K	CO / Air	50 ppm	103 L	5/8 in. x 18 in.	GFV265
XNX/XCD/S3K	CO / Air	100 ppm	103 L	5/8 in. x 18 in.	GFV237
XNX/XCD/S3K	CO / Air	250 ppm	103 L	5/8 in. x 18 in.	2302D0753
XNX/XCD/S3K	CO / Air	500 ppm	103 L	5/8 in. x 18 in.	571069
XNX/XCD/S3K	Zero Air	20.9% V/V	103 L	5/8 in. x 18 in.	998-023-001
XNX/XCD/S3K	CO2 / Air	1% V/V	103 L	5/8 in. x 18 in.	2992-0029
XNX/XCD/S3K	O2 / N2	17% V/V	103 L	5/8 in. x 18 in.	GFV444
XNX/XCD/S3K	HCL / N2	5 ppm	58 L	5/8 in. x 18 in.	1991-0164
XNX/XCD/S3K	HCL / N2	10 ppm	58 L	5/8 in. x 18 in.	GFV233
XNX/XCD/S3K	PH3 / N2	.5 ppm	58 L	5/8 in. x 18 in.	1991-0165

41. Accessories: Calibration Gases

41.6 Combustible Gases

Combustible Gases					
For Use With	Gas Type	Concentration	Cylinder Size	Thread Size	Part Number
XNX/XCD/S3K	Propane / N2	20% V/V	58 L	5/8 in. x 18 in.	2992-0076
XNX/XCD/S3K	Methane / Air	50% LEL	103 L	5/8 in. x 18 in.	998-022-001
XNX/XCD/S3K	Ethylene / Air	50% LEL	103 L	5/8 in. x 18 in.	998-022-004
XNX/XCD/S3K	Propane / Air	50% LEL	103 L	5/8 in. x 18 in.	998-022-002
XNX/XCD/S3K	Pentane / Air	25% LEL	103 L	5/8 in. x 18 in.	1991-0183
XNX/XCD/S3K	Pentane / Air	50% LEL	103 L	5/8 in. x 18 in.	GFV232
XNX/XCD/S3K	H2 / Air	50% LEL	103 L	5/8 in. x 18 in.	998-022-003
XNX/XCD/S3K	Butane / Air	50% LEL	103 L	5/8 in. x 18 in.	571785

42. Honeywell Analytics Service



Honeywell Analytics Service contact information:

USA Service Workshop Honeywell Analytics 405 Barclay Blvd. Lincolnshire, IL 60069

Tel: 800-538-0363 (option #5)

E-mail: ha.us.service@honeywell.com

Calgary Service Department Honeywell Analytics Suite 110, 4411 – 6 Street SE Calgary AB T2G 4E8 Canada

Tel: 1-800-563-2967

Email: haservice.canada@honeywell.com

Honeywell Analytics' global standing for portable, fixed and low level toxic gas detection is backed up with a dedicated team of professionals that takes service and support to a whole new level.

It's your choice...

Whatever industry you're in, we have the levels of support that are right for your business.

It's your business. It's your industry.

And no matter whether you're managing personnel for confined space entry, or securing your plant against gas risks, the process has to keep moving.

The alternative is downtime, or even total shutdown, and then the risks to your business are far greater.

Honeywell provides service levels that make it easy to choose the right kind of support to keep your plant and people safe; to keep your business up and running - because that's our job!

Choose from:

Installation and Commissioning

- Installation, configuration and commissioning
- Functional tests
- Start-up
- Staff training
- Bump testing

Calibration and Surveys

- Instrument calibration equipment certified to national/regional standards
- Site surveys
- Stock surveys

Contract Maintenance

Service and Repair

- On-site/workshop repair and calibration
- Modification and conVersion

42. Honeywell Analytics Service

Field Service:

We have a global network of fully qualified and highly skilled Technical Support Resources and Field Service Specialists ready to support your business. Honeywell Analytics is ready to support you 24 hours a day / 7 days a week in the United States & Canada.

For Monday thru Friday Daytime support please contact Honeywell Analytics and follow the voice prompts. In the US please dial 1-800-538-0363. Technical Support is currently Option 4 then Option 3. In Canada please dial 1-800-563-2967 Option 1 English, Option 2 French. Tech Support is currently Option 2.

For Afterhours and weekend support please contact Honeywell Analytics at 1-847-634-2842. Phone support rates will apply.

Contact Honeywell Analytics

Find out more - www.honeywellanalytics.com

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Honeywell Analytics, Inc. 405 Barclay Blvd. Lincolnshire, IL 60069 USA analytics.industrial.sales@Honeywell.com

USA Technical Services

Tel: 888-955-2585

haservice.workshop.us@honeywell.com

Canada Technical Services

Tel: 800-538-0363 (Pre-Sales: Option 2,

Post-Sales: Option 3)

ha.us.service@honeywell.com

www.honeywell.com

Canada

2840 2nd Ave SE Calgary, Alberta, Canada T2A 7X9 3580 Rue Isabelle Unit 100 Brossard, Quebec, Canada J4Y 2R3

Industrial Fixed

Toll free: 1-800-538-0363 Fax: 1-847-955-8210

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Please Note:

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