



Sensepoint XCD RFD SPECIFICATIONS

Remote Flammable Gas Monitor

Use	3-wire, 4-20mA, transmitter with optional Modbus for use with remotely mounted flammable gas sensors 705 and 705HT
Electrical	
Input Voltage Range	16 to 32VDC (24VDC nominal)
Max Power Consumption	Max 5 Watts. at 24Vdc (see section 2 regarding maximum in rush current)
Current Output	4-20mA (Source or Sink) ≥0.0<1.0 mA: Fault 4.0 mA to 20.0 mA: Inhibit (during configuration/user settings) 22.0 mA: Maximum over range
Terminals	15 x screw terminals suitable for wire diameter 0.5mm2 to 2.5mm 2 (20AWG to 13AWG)
Relays	3 x 5A@250VAC. Selectable normally open or normally closed (switch) and energized/de-energized (programmable)
Communication	RS485, Modbus RTU
Construction	
Material	Epoxy painted aluminium alloy or 316 Stainless Steel
Weight (approx)	Aluminium Alloy LM25: 4.4lbs 316 Stainless Steel: 11lbs
Mounting	Pole or wall mounting
Cable Entries	2 x ¾" NPT
Sensor Entries	¾" NPT

Detectable Gases and XCD RFD Sensor Performance												
Gas	User Selectable Full Scale Range	Default Range	Steps	User Selectable Cal Gas Range	Default Cal Point	Response Time (T60) Secs	Response Time (T90) Secs	Accuracy	Operating Temperature Min	Operating Temperature Max	Default Alarm Points A1	Default Alarm Points A2
705 Standard Temperature Sensor (UL/CSA Approved)												
Flammable 1 to 8*	20 to 100%LEL	100%LEL	10%LEL	25 to 95% of selected full scale range	50%LEL		<25	<±1.5%LEL	67°F (-55°C)	176°F (80°C)	20%LEL ▲	40%LEL ▲
705 High Temperature Sensor (UL Only)												
Flammable 1 to 8*	20%LEL	20%LEL			10%LEL		<25	<±1.5%LEL	67°F (-55°C)	302°F (150°C)	10%LEL ▲	15%LEL ▲
Flammable 1 to 8*	20 to 100%LEL	100%LEL	10%LEL		50%LEL	<6	<10	<±1.5%LEL	67°F (-55°C)	302°F (150°C)	20%LEL ▲	40%LEL ▲

*Contact Honeywell Analytics for availability.

▲ Rising Alarm

Gas	Displayed Name	705 Sensor Calibration Gas	Adjust to	705HT Sensor Calibration Gas	Adjust to
Methane**	CH ₄	50% Methane/air	50%	50% Methane/air	50%
Hydrogen	H ₂	50% Hydrogen/air	50%	50% Hydrogen/air	50%
Butane	C ₄ H ₁₀	50% Butane/air	50%	50% Butane/air	50%
Propane	C ₃ H ₈	50% Propane/air	50%	50% Propane/air	50%
Pentane	C ₅ H ₁₂	50% Pentane/air	50%	50% Pentane/air	50%
Ethylene	C ₂ H ₄	50% Ethylene/air	50%	50% Ethylene/air	50%

**Performance testing conducted with Methane calibration only.

NOTES

Performance figures are taken at 20~25°.

1. Measured using a sample humidity of 50%RH, applicable between 10 and 90% of full scale.
2. Measured using test units calibrated at 50% of full scale.

Response time (T90) may increase when operating in lower or higher temperature conditions or when gas is introduced with the Weather Protection accessory fitted.

Should it be exposed to other HC then non linear response is expected. For linearized operation other than Methane contact HA for alternate parts. This calibration enables 100% functional test prior to dispatch.

This calibration does not remove need for calibration & test as part of commissioning at site. For gases other than Methane the unit has to be calibrated at site using target gas. Data represents typical values, and system conditioning may be required to achieve stated result. Contact Honeywell Analytics for details.

Environmental	
IP Rating	IP66 in accordance with EN60529:1992, NEMA 4X (Tested by third party laboratory)
Operating Temperature	-40°F to +149°F (-40°C to +65°C)
Operating Humidity	Continuous 20-90%RH (non condensing), Intermittent 10-99%RH (non condensing)
Operating Pressure	90-110kPa
Storage Conditions	-13°F to +149°F (-25°C to +65°C)
Certification	
US	cCSAus approved for Class I, Division 1, Groups B, C & D Hazardous Locations. Performance approved to the following standards; ANSI/ISA-12.13.01
Canada	cCSAus approved for Class I, Division 1, Groups B, C & D Hazardous Locations. Performance approved to the following standards; C22.2 No. 152-M1984
Performance	C22.2-152, ANSI/ISA 121301

Find out more

www.honeywellanalytics.com

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