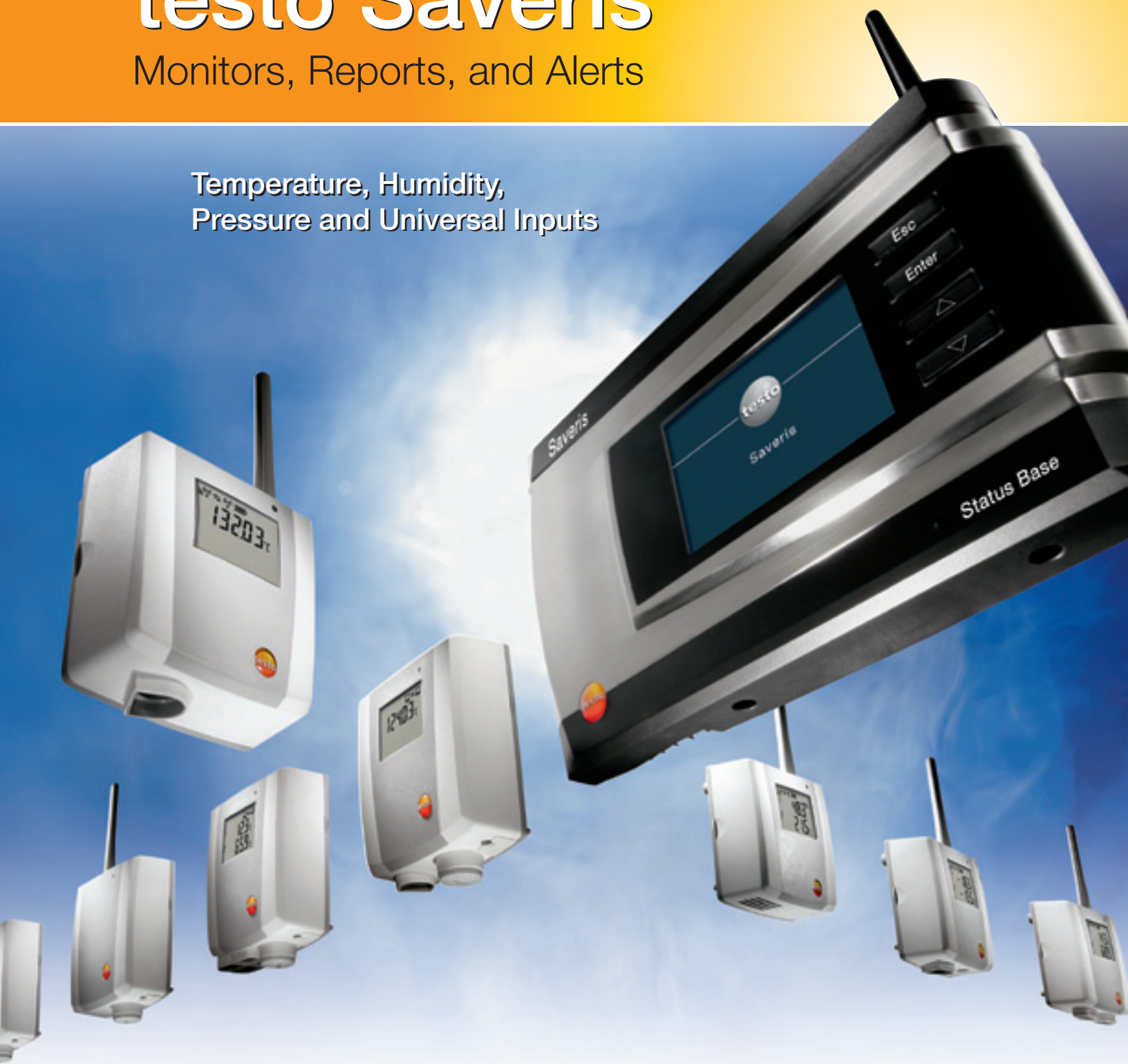




testo Saveris™

Monitors, Reports, and Alerts

Temperature, Humidity,
Pressure and Universal Inputs



testo Saveris Base: The Heart of the Saveris System

The testo Saveris base is the central data collection location and is able to store up to 40,000 readings per channel.

- Accepts up to 150 probes*
- Provides probe and system status
- Alarm notification can be sent via email, LED relay or optional SMS text
- Battery backup to ensure data integrity
- Connect to a PC or network via USB or Ethernet

*Via the following potential combinations:

- 150 Ethernet probes
- 10 Converters with each accepting up to 15 wireless probes
- Up to 15 wireless routers, with each router receiving data from up to five wireless probes (a maximum of 75 probes in total)
- A maximum of 15 wireless probes connected directly to a base

testo Saveris base



USB
or
Ethernet



testo Saveris
software

Ethernet



testo Saveris
Ethernet probe

Software Options

Testo offers three different software options to meet your unique needs. Choose from the Small Business Edition (SBE) for single location installations, a Professional Version with advanced analysis features or the CFR Software to meet the FDA's 21 CFR Part 11 requirements.

testo Saveris Ethernet Probe

If a LAN infrastructure is already in place, or connections over a great physical distance are required, the Saveris Ethernet line of probes can provide a reliable communications solution.

testo Saveris wireless probes



testo Saveris Probes

- Are unique to the market by offering connectivity to the system via **wireless** transmission, or via wired **Ethernet**, or even a combination of wired and wireless connectivity to meet the needs of even difficult applications.
- Data remains secure in probe's memory
- Up to five year battery life
- 15 different probe choices for nearly any temperature or humidity application
- Additional measurement support through optional external probe sensors
- **Analog coupler probes** accept any 0 - 10 VDC or 4 - 20 mA signal making the Saveris system's versatility limitless



testo Saveris wireless probe



testo Saveris Router

- Is used as a cascading repeater or booster to increase wireless signal distance. The router can transmit the signals of up to 5 probes.



Ethernet



Ethernet



testo Saveris converter



testo Saveris Ethernet probe

Ethernet



testo Saveris analog coupler (Ethernet)

Ethernet



Humidity transmitter

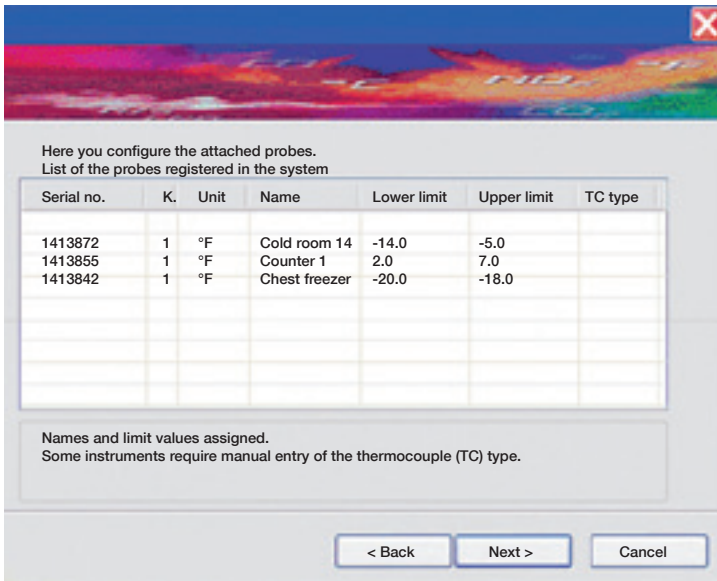
testo Saveris Converter

The testo Saveris converter can translate data from the system's wireless probe to the Saveris base while keeping the collected data intact. This high level of versatility, coupled with the ability to use both hard-wired and wireless systems, is what sets Saveris apart from other monitoring systems. Transmitting data long distances, or high signal impedance limits, will not cause data collection issues with the testo Saveris system.

Testo's Humidity and Pressure Transmitters

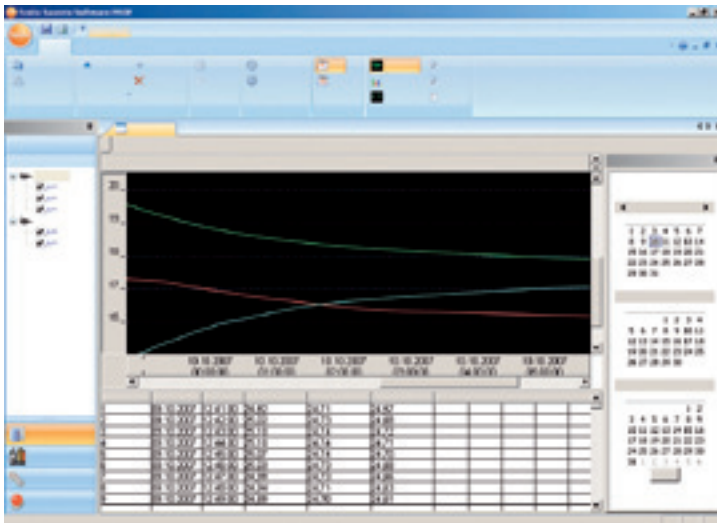
- Can interface with the Saveris system via the optional Ethernet output.

testo Saveris Ethernet probes



Installation is easy

- Connect the Saveris base to AC power. Probes are logged on at the base and switched on in series. The base automatically identifies each probe.
- Use either a USB or Ethernet cable to connect the Saveris base to your PC. The installation wizard will walk you through the entire software installation process.
- The system is now ready for configuration. Probe name, limit values, measuring cycles and alarms can now be assigned to individual measuring tasks.



Up to the minute, clear displays

- Shows data in a graphic or table format
- If alarms have been triggered, these can be listed separately
- Probes can be compiled into groups according to measurement tasks forming logical units of analysis
- View measured data over days, weeks or months. An integrated calendar helps in viewing historical data.

testo

Daily report

Cold storage house zone: Hourly mean values on 03.08.2007

Time	*F freezer 1	%RH cold room 1	*F refrigerator	*F drinks	*F freezer 2	*F freezer 3	*F freezer 4
03:00	-19.2	71.3	5.8	5.8	-19.2	-19.2	-19.2
03:15	-19.4	71.3	4.8	4.8	-19.4	-19.4	-19.4
03:30	-19.5	69.6	4.7	4.7	-19.5	-19.5	-19.5
03:45	-19.6	70.1	5.1	5.1	-19.6	-19.6	-19.6
04:00	-19.2	71.4	5.6	5.6	-19.2	-19.2	-19.2
04:15	-19.3	70.7	5.3	5.3	-19.3	-19.3	-19.3
04:30	-19.1	70.8	6.1	6.1	-19.1	-19.1	-19.1
04:45	-19.0	71.3	6.8	6.8	-19.0	-19.0	-19.0
05:00	-19.0	70.4	5.7	5.7	-19.0	-19.0	-19.0
05:15	-19.3	70.4	5.4	5.4	-19.3	-19.3	-19.3
05:30	-19.5	68.8	5.3	5.3	-19.5	-19.5	-19.5
05:45	-19.2	68.5	6.3	6.3	-19.2	-19.2	-19.2
06:00	-19.2	70.5	4.8	4.8	-19.2	-19.2	-19.2
06:15	-19.4	71.1	5.2	5.2	-19.4	-19.4	-19.4
06:30	-19.5	70.8	4.9	4.9	-19.5	-19.5	-19.5
06:45	-19.2	70.6	5.3	5.3	-19.2	-19.2	-19.2
07:00	-19.4	70.3	5.8	5.8	-19.4	-19.4	-19.4
07:15	-19.5	71.3	6.2	6.2	-19.5	-19.5	-19.5
07:30	-19.4	71.3	5.5	5.5	-19.4	-19.4	-19.4
07:45	-19.4	70.8	5.8	5.8	-19.4	-19.4	-19.4
08:00	-19.3	69.6	4.9	4.9	-19.3	-19.3	-19.3
08:15	-19.1	70.5	5.8	5.8	-19.1	-19.1	-19.1
08:30	-19.2	71.3	5.3	5.3	-19.2	-19.2	-19.2
Total maximum value	-19.1	72.5	6.8	6.8	-19.1	-19.1	-19.1
Total average value	-19.3	70.3	5.5	5.5	-19.3	-19.3	-19.3
Total minimum value	-21.3	68.1	4.8	4.8	-21.3	-21.3	-21.3

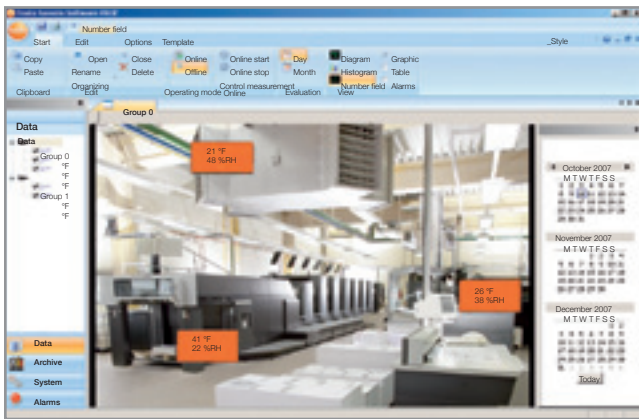
Automated documentation

- Predefined profiles for reporting time periods and report formats
- Automatically creates and saves reports in PDF format according to user-defined schedules, allowing for easy download, distribution, or printing.

■ The most flexibility with three versions of software

The PROF (Professional) software version has beneficial additional functions over and above the attractive basic functions of the SBE Basic version, such as:

- Client server concept: Measurement data can be monitored by different PCs integrated into an in-house network.
- Photographs of machines or rooms can be saved as a picture. The respective measurement values can be shown directly at the position of the probe in the room or at the machine (see picture below). The link between the location and the measurement value is then easily visualized.
- Comprehensive alarm management screens offer the option of alarming more than two people at the same time or in succession. Depending on the day of the week and the time, you can freely choose whether an alarm is sent via email or SMS.



■ CFR software

The CFR software is fully compliant to 21CFR Part 11 and has been certified and validated by the Fraunhofer IESE.



Overview of software versions

	SBE	PROF	CFR
Simple installation and configuration	•	•	•
Diagrams / tables / alarm overview / PDF reports	•	•	•
Calendar management	•	•	•
Representation of probe groups	•	•	•
Transmission of alarms (e-mail, SMS, relay)	•	•	•
Comprehensive alarm management		•	•
Automatically refresh of data ("Online mode")		•	•
View data on background photo of locations		•	•
Integration into network (client server)		•	•
Allocation of access rights to probe groups		•	•
Certified to 21CFR Part 11			•
Electronic signature			•
Audit trail			•
Allocation of access rights on 3 user levels			•

Software Ordering info

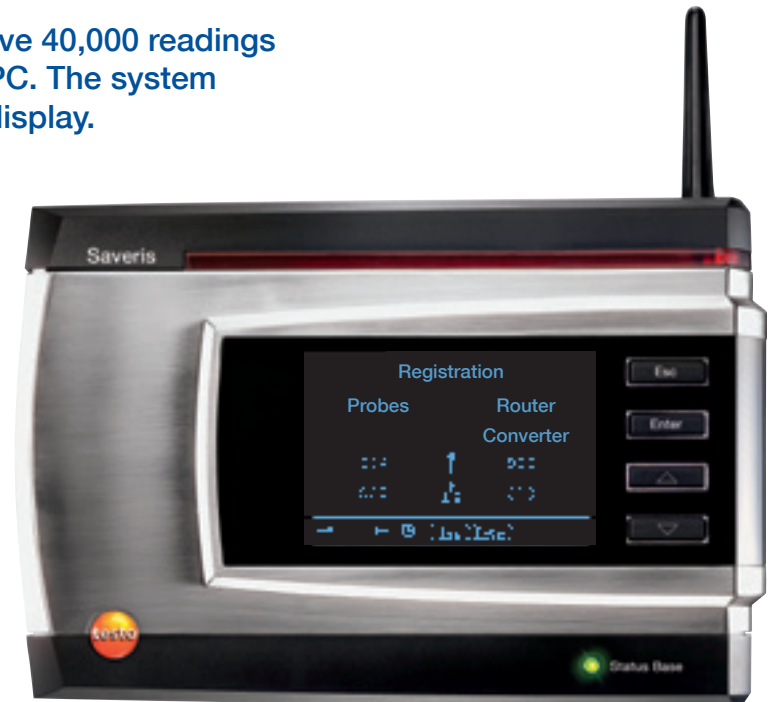
Part no.

SBE software, incl. USB connecting cable base-PC	0572 0180
PROF software, incl. USB connecting cable base-PC	0572 0181
CFR software, incl. Ethernet connection cable PC to Base	0572 0182

testo Saveris Base

The base is the heart of testo Saveris and can save 40,000 readings per measurement channel independently of the PC. The system data and alarms are visible on the Saveris base display.

- Displays alarms and system data
- Large data memory
- Issues via LED/relay
- SMS alarm (optional)
- Integrated emergency battery integrated
- Connect up to 150 probes
- Connections via USB or Ethernet




Technical data

Memory	40,000 values per channel, 450 channels (total max. 18,000,000 values)
Dimensions	1 x 6 x 2" (225 x 150 49 mm)
Weight	Approx. 3.33 lbs. (1510 g)
Protection class	IP42
Material/Housing	Diecast zinc / plastic
Wireless frequency	2.4 GHz
Power supply (absolutely necessary)	6.3 V DC power supply; alternatively via 24 V AC/DC plug-in/screw terminals, power consumption < 4 W
Rech. batt.	Li-ion battery (for data back-up and for emergency SMS if power supply fails)
Oper. temp.	14 to 122 °F (-10 to +50 °C)
Storage temp.	-40 to 140 °F (-40 to +60 °C)
Display	graphical display, 4 control keys
Interfaces	USB, wireless, Ethernet
Connectable wireless probe	max. 15 probes can be directly connected via wireless interface, max. 150 total via wireless / router / converter / Ethernet, max. 450 channels
Alarm relay	max. 1 A, max. 30 W, max. 60/25 V DC/AC, NC or NO contact
GSM module	850 / 900 / 1800 / 1900 MHz not valid for Japan and South Korea
Set up	Table base and wall bracket included


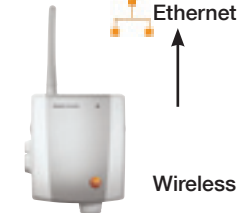
Ordering data

	Part no.
2.4 GHz – Saveris base, wireless frequency 2.4 GHz	0572 0260
2.4 GHz – Saveris base, wireless frequency 2.4 GHz, GSM module integrated (for SMS alarm)	0572 0261
Saveris Starter Kit: 2.4 GHz consisting of: base (0572 0260), 3 NTC wireless probes without display (0572 1250), power supply for base (0554 1096), SBE software (0572 0180) and incl. USB cable	0572 0250

AC power adapter must be ordered separately for each Saveris Base

 Note on the wireless frequencies:
Certificates issued: FCC WAFAMB2520T, IC 6127B-AMB2520T 2.4 GHz

The wireless link can be improved or lengthened in difficult transmission conditions by using a router or cascading routers. By connecting a converter to an Ethernet jack, the signal of a wireless probe is converted into Ethernet. This combination increases the flexibility of connections between wireless or Ethernet possibilities, even over long transmission paths.

	Saveris router	Saveris converter
		
Dimensions	Approx. 3.4 x 3.9 x 1.5" (85 x 100 x 38 mm)	Approx. 3.4 x 3.9 x 1.5" (85 x 100 x 38 mm)
Weight	Approx. 5.8 oz. (180 g)	Approx. 6.1 oz. (190 g)
Power supply	6.3 V DC power supply; alternatively via 24 V AC/DC plug-in/screw terminals, power consumption < 0.5 W	6.3 V DC power supply; alternatively via 24 V AC/DC plug-in/screw terminals, PoE, power consumption < 2 W
Oper. temp.	-4 to 122 °F (-20 to +50 °C)	-4 to 122 °F (-20 to +50 °C)
Storage temp.	-4 to 140 °F (-40 to +60 °C)	-4 to 140 °F (-40 to +60 °C)
Material/Housing	Plastic	Plastic
Protection class	IP54	IP54
Interfaces	Wireless	Wireless, Ethernet
Connectable wireless probe	max. 5	max. 15
Wall bracket	included	included
Versions	Saveris router, 2.4 GHz, wireless transmission Part no. 0572 0259	Saveris converter, 2.4 GHz, converts wireless transmission to Ethernet signal Part no. 0572 0258

Power supplies for Router and Converter must be ordered separately

Accessories	Part no.
Power supplies	
Replacement battery for wireless probe (4 AA alkaline batteries)	0515 0414
Replacement battery for wireless probe for use below 14 °F (-10 °C) (4 Energizer L91 Photo lithium)	0515 0572
100-240 VAC / 6.3 V DC US/international power supply	0554 1096
Power supply (rail mounting) 90 to 264 VAC/24 VDC (2.5 A)	0554 1749
Power supply (table-top) 110 to 240 VAC/24 VDC (350mA)	0554 1748
Other features	
Magnetic base antenna (quadband) for base with GSM module	0554 0525
Alarm module (audible and visual), can be connected to base alarm relay, Ø 2.8 x 6.5", 24 V AC/DC / 320 mA, perm. light: red, perm. tone: buzzer approx. 2.4 kHz (Power supply unit 0554 1749 required) (ID-NR-06999 6111/1)	0572 9999
Programming adapter (from mini-DIN to USB) for Ethernet probe and converter (necessary to set static IP address)	0440 6723
Software	
SBE software, incl. USB connecting cable base-PC	0572 0180
PROF software, incl. USB connecting cable base-PC	0572 0181
CFR software, incl. Ethernet connection cable PC to Base	0572 0182
Saveris adjustment software incl. connection cable for wireless and Ethernet probes	0572 0183
Calibration Certificates	
NIST Temperature Calibration Certificate (3 standard points)	40 0520 1901
NIST Temperature Calibration Certificate (2 standard points) (11.3, 75.3% RH)	40 0520 2601
ISO Temperature Calibration Certificate (3 standard points)	0520 0171
ISO Humidity Calibration Certificate (calibration points 11.3 %RH / 75.3 %RH)	0520 0076








Note on the wireless frequencies:

Certificates issued: FCC WAFAMB2520T, IC 6127B-AMB2520T 2.4 GHz

testo Saveris Components: Wireless probes

Probe versions with internal and external temperature and humidity sensors easily adapt to any application. Wireless probes are available with or without display. Current measurement data, battery status and signal strength are shown in the display. In the event of a transmission interruption data is saved in the probes' memory.






Temperature Probes				
	Saveris T1	Saveris T2	Saveris T3	Saveris Pt
	NTC internal		NTC internal	
			external	
			external	
	Wireless probe with internal NTC sensor	Wireless probe with external probe connection and internal NTC sensor, plus door contact input	2-channel wireless probe with 2 external thermocouple probe connections	Wireless probe with 1 external Pt100 probe connection
Probe type	NTC	NTC		
Meas. range	-22 to 122 °F	-22 to 122 °F		
Accuracy	±0.7 °F (-13 to 122 °F) ±1.4 °F (remaining range)	±0.7 °F (-13 to 122 °F) ±1.4 °F (remaining range)		
Resolution	0.1 °C /°F	0.1 °C /°F		
Probe type		NTC	TC type K: -329 to +2462 °F TC type J: -148 to +1382 °F	RTD
Meas. range (Instrument)		-58 to 302 °F	TC type T: -325 to +752 °F TC type S: 32 to +3200 °F	-328 to 1112 °F
Accuracy (Instrument)		±0.4 °F (-13 to 158 °F) ±0.7 °F (remaining range)	±0.9 °F or 0.5% of rdg	at 77 °F ±0.2 °F (32 to 140 °F) ±0.4 °F (-148 to 392 °F) ±0.9 °F (remaining range)
Resolution (Instrument)		0.1 °F/°C	0.1 °F/°C / TC type S 1 0.1 °F/°C	0.1 0.1 °F/°C
Conn.		NTC via mini-DIN socket, door contact connection cable included in delivery (5.9')	2 TCs via standard mini plug (max. difference in potential 2 V)	1 Pt100 via mini-DIN socket
2.4 GHz	Version without display	Saveris T1 Part no. 0572 1250	Saveris T2 Part no. 0572 1251	Saveris T3 Part no. 0572 9252
	Version with display	Saveris T1 D Part no. 0572 1260	Saveris T2 D Part no. 0572 1261	Saveris T3 D Part no. 0572 9262

Technical data

Dimensions (housing):	3.2 x 3.4 x 1.5" (3.2 x 3.4 x 1.5")
Weight	Approx. 7.7 oz. (240 g)
Battery life	
(Type: 4 AA batteries)	Battery life at 77 °F, 3 years; for freezer applications, 3 years with L91 Photo lithium Energizer batteries)
Material/Housing	Plastic
Protection class	Saveris T1 & T2: IP68, Saveris T3: IP54, Saveris Pt 100: IP68
Wireless frequency	2.4 GHz
Measuring rate	Standard 15 min, 1 min to 24 h can be set

Conformity with standards	DIN EN 12830
Oper. temp.	Saveris T1 & T2: -31 to +122 °F Saveris T3 & Pt100: -4 to +122 °F
Storage temp.	-40 to +122 °F (-40 to 50 °F)
Display (optional)	LCD, 2 lines; 7-segment with symbols
Transmission distance	approx. 984.3' free field at a frequency of 868 MHz, approx. 328.1' free field at a frequency of 2.4 GHz
Wall bracket	included

Alkaline manganese batteries AA (0515 0414) are included (analog coupler excluded). Saveris probes are delivered with a certificate of conformance from the factory. NIST or ISO calibration certificates must be ordered separately.

Humidity and Temperature Probes							Analog	
	Saveris H2D		Saveris H3		Saveris H4D		Saveris U1	
	%RH		%RH		%RH		mA	
	NTC		NTC		NTC		V	
external	internal		external					
	Wireless humidity probe		Humidity wireless probe		Wireless probe with 1 external humidity probe connection		(Analog coupler) - Wireless probe with current/voltage input	
Probe type	NTC	Humidity Sensor	NTC	Humidity Sensor	NTC	Humidity Sensor	1 channel: current/voltage input	
Meas. range	-20 to 50 °F	0 to +100 %RH*	-4 to +122 °F	0 to 100 %RH	-20 to 50 °F	0 to +100 %RH*	2-wire: 4 to 20 mA, 4-wire: 0/4 to 20 mA, 0 to 1/5/10 V, load: max. 160 at 24 V DC	
Accuracy	±0.9 °F	to 90 %RH: ±2 %RH > 90 %RH: ±3 %RH	±0.9 °F	±3 %RH	±0.4 °F	see probes	Current ±0.03 mA / 0.75 µA Voltage 0 to 1 V ±1.5 rdg/39 µV Voltage 0 to 5 V ±7.5 rdg / 0.17 rdg Voltage 0 to 10 V ±15 rdg / 0.34 rdg ±0.02% of. m.v./K deviating from nominal temperature 72 °F	
Resolution	0.1 °F/°C	0.1 °F/°C/0.1 °F/°C td	0.1 °F/°C	0.1 °F/°C/0.1 °F/°C td	0.1 °F/°C	0.1 °F/°C/0.1 °F/°C td		
Conn.	fixed external probe				1 x external humidity probe mini DIN socket		2 or 4-wire current/voltage input Service interface mini DIN for adjustment	
2.4 GHz	Version without display		Saveris H3 Part no. 0572 6250				Saveris U1 Part no. 0572 3250	
	Version with display	Saveris H2D Part no. 0572 6262	Saveris H3 D Part no. 0572 6260		Saveris H4D Part no. 0572 6264			

Technical data





Dimensions (housing)	Saveris H2D: 3.4 x 3.9 x 1.5 in Saveris H3 & H4D: 3.1 x 3.3 x 1.5 in Saveris U1: Approx. 3.4 x 3.9 x 1.5 in
Weight	Saveris H2D: Approx. 8.2 oz Saveris H3 & H4D: Approx. 7.9 oz Saveris U1: Approx 7.7 oz
Battery life (Type: 4 AA batteries)	Saveris H2D, H3 & H4D: Battery life at 77 °F, 3 years; for freezer applications, 3 years with L91 Photo lithium Energizer batteries) Saveris U1: Supply: AC power supply 6.3 V DC, 2 to 30 V DC max 25 V AC
Material/Housing	Plastic
Protection class	Saveris H2D: IP54, Saveris H3: IP42, Saveris H4D & U1: IP54

Wireless frequency	2.4 GHz
Measuring rate	Standard 15 min, 1 min to 24 h can be set
Oper. temp.	-4 to 122 °F
Storage temp.	-40 to 131 °F
Display (optional)	Saveris H2D, H3 & H4D: LCD, 2 lines; 7-segment with symbols Saveris U1: (no display)
Transmission distance	approx. 328' free field at a frequency of 2.4 GHz
Wall bracket	included

Alkaline manganese batteries AA (0515 0414) are included (analog coupler excluded). Saveris probes are delivered with a certificate of conformance from the factory. NIST or ISO calibration certificates must be ordered separately. *Not for continuous high-humidity applications.

testo Saveris Components: Ethernet probes

An existing LAN infrastructure can be used with the Ethernet probes for data transfer from the probe to the base, even over long distances. All Ethernet probes include a display.






°F/°C			
	Saveris T1E	Saveris T4 E	Saveris Pt E
Ethernet 	NTC external 	TC external 	Pt 100 external 
	Ethernet probe with 1 external probe connection NTC	4-channel Ethernet probe with 4 external TC probe connections	Ethernet probe with external Pt100 probe connection
Probe type	NTC	TC type K, TC type J, TC type T, TC type S	Pt100
Meas. range	-58 to +302 °F	TC type K: -329 to +2462F TC type J: -148 to +1382°F TC type T: -325 to +752°F TC type S: 32 to +3200 °F	-328 to +1112 °F
Accuracy	±0.4 °F (-13 to 158 °F) ±0.7 °F (remaining range)	±0.9 °F or 0.5% of rdg	at 77 °F ±0.2 °F (32 to 140 °F) ±0.4 °F (-148 to 392 °F) ±0.9 °F (remaining range)
Resolution	0.1 °F/°C	0.1 °F/°C / TC type S 1 °F/°C	1 Pt100 via mini-DIN socket
Conn.	1 x NTC via mini DIN socket	4 TCs via TC socket, max. difference in potential 50 V	1 Pt100 via mini-DIN socket
	Mini-DIN service interface for adjustment is accessible externally		
Version with display	Saveris T1E with display Part no. 0572 1191	Saveris T4 E with display Part no. 0572 9194	Saveris Pt E with display Part no. 0572 7191

Technical data

Dimensions (housing):	Approx. 3.3 x 3.9 x 1.5 in
Weight	Approx. 7 oz
Power	6.3 V DC power supply; alternatively via 24 V AC/DC plug-in/screw terminals, PoE
Buffer battery	Li-ion
Material/Housing	Plastic
Protection class	IP54

Measuring rate	2 s to 24 h
Oper. temp.	-4 to 140 °F
Storage temp.	-40 to 140 °F
Power consumption	PoE Class 0 (typical ≤ 3 W)
Display (optional)	LCD, 2 lines; 7-segment with symbols
Wall bracket	included

Saveris Ethernet probes are delivered with a certificate of conformance from the factory. AC power supply for each ethernet probe must be ordered separately. NIST or ISO calibration certificates must be ordered separately.

°F/°C and %RH							mA and V	
Saveris H1E		Saveris H2 E		Saveris H4E		Saveris U1E		
Ethernet 	%RH		%RH		%RH		mA V	
	NTC		NTC		NTC			
	external		external		external			
	Humidity Ethernet probe 1%		Humidity Ethernet probe 2%		Ethernet probe with external humidity probe connection		Ethernet probe with current/voltage input	
Probe type	NTC	Humidity sensor	NTC	Humidity sensor	NTC	Humidity sensor	1 channel: current/voltage input	
Meas. range	-4 to 158 °F	0 to 100 %RH*	-4 to 158 °F	0 to 100 %RH*	-4 to 158 °F	0 to 100 %RH*	2-wire: 4 to 20 mA, 4-wire: 0/4 to 20 mA, 0 to 1/5/10V, load: max. 160 W at 24 V DC	
Accuracy	±0.4 °F (32 to 86 °F) ±0.9 °F (remaining range)	to 90 %RH: ±(1 %RH +0.7 % of rdg) at 77 °F > 90 %RH: ±(1.4 %RH +0.7 % of rdg) at 77 °F	±0.4 °F (32 to 86 °F) ±0.9 °F (remaining range)	to 90 %RH: ±(1 %RH +0.7 % of rdg) at 77 °F > 90 %RH: ±(1.4 %RH +0.7 % of rdg) at 77 °F	±0.4 °F (-4 to 158 °F)	see external probes	Current ±0,03 mA / 0.75 µA Voltage 0 to 1 V ±1.5 rdg/39 µV Voltage 0 to 5 V ±7.5 rdg/0.17 rdg Voltage 0 to 10 V ±15 rdg/0.34 rdg ±0.02% of rdg/K deviating from nominal temperature 72 °F	
Resolution	0.1 °F/°C	0.1% / 0.1 °F/°C td	0.1 °F/°C	0.1% / 0.1 °F/°C td	0.1 °F/°C	0.1% / 0.1 °F/°C td		
Conn.					1 x external Ethernet humidity probe mini DIN socket		1 x 2- or 4-wire current/voltage input	
Mini-DIN service interface is accessible externally								
Version with display	Saveris H1 E with display Part no. 0572 6191		Saveris H2 E with display Part no. 0572 6192		Saveris H4E with display Part no. 0572 6194		Saveris U1E no display Part no. 0572 3190	



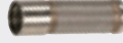
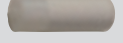
Technical data

Dimensions (housing):	Approx. 3.4 x 3.9 x 1.5 in
Weight	Saveris H1DE & H2 E: Approx. 7.4 oz Saveris H4E: Approx. 8.2 oz Saveris U1E: Approx. 7.7 oz
Power	6.3 V DC power supply; alternatively via 24 V AC/DC plug-in/screw terminals, PoE
Buffer battery	Li-ion
Material/Housing	Plastic
Protection class	IP54

Measuring rate	2 s to 24 h
Oper. temp.	-4 to 140 °F
Storage temp.	-40 to 140 °F
Power consumption	PoE Class 0 (typical ≤ 3 W)
Display (optional)	LCD, 2 lines; 7-segment with symbols
Wall bracket	Saveris H1DE, H2 E & H4E: included Saveris U1E: not included




Saveris probes are delivered with a certificate of conformance from the factory. Calibration certificates must be ordered separately. Each ethernet probe requires an AC power supply which must be ordered separately. *not for continuous high RH.

testo Saveris Accessories: Sintered caps Ethernet probes



Sintered caps for Saveris H1 E, H2 E and H2 D Ethernet probes	Photo	Part no.
Metal protection cage, Ø .47" for humidity probes, for measurement in flow velocities of less than 10 m/s		0554 0755
Stainless steel sintered filter, pore size 100 µm, probe protection in dusty atmospheres or higher flow velocities, for measurements at higher flow velocities or in contaminated air		0554 0647
Cap with wire mesh filter, Ø .47"		0554 0757
Sintered PTFE filter, Ø .47", for corrosive media, High humidity range (long-term measurements), high flow velocities.		0554 0756
testo saline pots for control and humidity adjustment of humidity probes, 11.3 %RH and 75.3 %RH with adapter for humidity probe, quick checks or calibration of humidity probe		0554 0660

testo Saveris Accessories: External temperature probes

Pt 100 Plug-in probes

Plug-in probes	Photo	Meas. range	Accuracy	t99	Part no.
Rugged Pt100 stainless steel food probe (IP65)	 5" 0.6" Ø 0.16" Ø 0.11" Conn.: Fixed cable	-58 to +752 °F	Class A (-58 to 572 °F), Class B (remaining range)	10s	0609 2272
Penetration probe Pt100 with ribbon cable, cable length 6', IP 54	 2.4" 1.2" Ø .20" Ø 0.14"	-58 to +356 °F	Class A	10s	0572 7001
Robust, waterproof Pt100 immersion/ penetration probe	 4.5" 2" Ø .20" Ø .15" Fixed cable	-58 to +752 °F	Class A (-58 to 572 °F), Class B (remaining range)	12s	0609 1273
Connection cable for unlimited Pt100 stationary probes with screw terminals (4-wire technology)					0554 0213

%RH Plug-in probes

Plug-in probes	Photo	Meas. range	Accuracy	t99	Part no.
Humidity / Temperature Probe 0.5"	 Ø 0.5"	-4 to +158 °F 0 to +100 %RH	0.5 °F, ±2 %RH (2 to 98%RH)		0572 6172
Humidity / Temperature Probe 0.16"	 Ø 0.16"	32 to +104 °F 0 to +100 %RH	±0.5 °F, ±2 %RH (2 to 98 %RH)		0572 6174

The specified accuracy class of the Saveris wireless and Ethernet probe is achieved using these external probes.

* Probe tested to EN 12830 for suitability in the transport and storage sectors
 Long-term measurement range 257 °F, short-term 302 °F or 284 °F (2 minutes)

TC Plug-in probes

Plug-in probes	Photo	Meas. range	Accuracy	t99	Part no.
Stationary probe with stainless steel sleeve, TC Type K	1.6" Ø .24" Conn.: Fixed cable 6.2'	-58 to +401 °F	Class 2*	20s	0628 7533
Robust air probe, T/C Type K	4.5" Ø .16" Conn.: Fixed cable 3.9'	-76 to +752 °F	Class 2*	25s	0602 1793
Penetration probe TC with ribbon cable, cable length 6', IP 54	2.4" 1.12" Ø 0.20" Ø 0.14"	-40 to +428 °F	Class 1	7s	0572 9001
Magnetic probe, adhesive force approx. 20 N, with magnets, for measurements on metal surfaces, TC Type K	1.4" Ø 0.79" Fixed cable:	-58 to +338 °F	Class 2*	150s	0602 4792
Magnetic probe, adhesive force approx. 10 N, with magnets, for higher temp., for measurements on metal surfaces, TC Type K	3" Ø 0.83" Conn.: Fixed cable 5.3'	-58 to +752 °F	Class 2*		0602 4892
Pipe probe for pipe diameter 0.2 to 2.6", with exchangeable measuring head. Meas. range short term to 536 °F, TC Type K	 Conn.: Fixed cable 3.9'	-76 to +266 °F	Class 2*	5s	0602 4592
Pipe wrap probe with Velcro strip, for temperature measurement on pipes with diameter up to max. 4.7", Tmax 248 °F, TC Type K	15.5" 0.79" Conn.: Fixed cable 4.9'	-58 to +248 °F	Class 1*	90s	0628 0020
Thermocouple with TC adapter, flexible, 31.5" long, fiberglass, TC Type K	31.5" Ø 0.06"	-58 to +752 °F	Class 2*	5s	0602 0644
Thermocouple with TC adapter, flexible, 59" long, fibre glass, TC Type K	59" Ø 0.06"	-58 to +752 °F	Class 2*	5s	0602 0645
Thermocouple with TC adapter, flexible, 59" long, PTFE, TC Type K	59" Ø 0.06"	-58 to +482 °F	Class 2*	5s	0602 0646
Immersion tip, flexible, TC Type K	20" Ø 0.06"	-328 to +1832 °F	Class 1*	5s	0602 5792
Immersion measurement tip, flexible, for measurements in air/exhaust gases (not suitable for measurements in smelters), TC Type K	39" Ø 0.11"	-328 to +2372 °F	Class 1*	4s	0602 5693

testo Saveris Accessories: External temperature probes

NTC Plug-in probes

Plug-in probes	Photo	Meas. range	Accuracy	t99	Part no.	
Stub probe, IP 54	 <p>1.4"</p> <p>Ø 0.12"</p>	-20 to +70 °C -4 to +158 °F	±0.4 °F (-4 to 104 °F) ±0.7 °F (104 to 158 °F)	15s	0628 7510	
Stationary probe with aluminium sleeve, IP 65	 <p>1.6"</p> <p>Ø 0.83"</p> <p>Conn.: Fixed cable; Cable/length: 7'</p>	-30 to +90 °C -22 to +194 °F	±0.4 °F (32 to 158 °F) ±0.9 °F (remaining range)	190s	0628 7503*	
Accurate imm./pen. probe, 20' cable, IP 67	 <p>1.6"</p> <p>Ø 0.12"</p> <p>Conn.: Fixed cable; Cable/length: 20'</p>	Ø 0.12"	-35 to +80 °C -31 to +176 °F	±0.4 °F (-13 to 167 °F) ±0.7 °F (remaining range)	5s	0610 1725*
Accurate immersion/penetration probe, cable: 5' long, IP 67	 <p>1.6"</p> <p>Ø 0.12"</p> <p>Conn.: Fixed cable; Cable/length: 5'</p>	Ø 0.12"	-35 to +80 °C -31 to +176 °F	±0.4 °F (-13 to 167 °F) ±0.7 °F (remaining range)	5s	0628 0006*
Penetration probe NTC with ribbon cable, cable length 6', IP 54	 <p>2.4"</p> <p>Ø 0.20"</p>	1.2" <p>Ø 0.14"</p>	-40 to +125 °C -40 to +257 °F	±0.5 % of rdg (212 to 257 °F) ±0.4 °F (-13 to 176 °F) ±0.7 °F (remaining range)	8s	0572 1001
Wall surface temperature probe, e.g. to prove damage in building material	 <p>Conn.: Fixed cable; Cable/length: 9.8'</p>		-50 to +80 °C -58 to +176 °F	±0.4 °F (32 to 158 °F)	20s	0628 7507
Stainless steel NTC food probe (IP65) with PUR cable	 <p>4.9"</p> <p>Ø 0.16"</p> <p>Conn.: Fixed cable; Cable/length: 5'</p>	0.60" <p>Ø 0.12"</p>	-50 to +150 °C -31 to +302 °F	±0.5 % of rdg (212 to 302 °F) ±0.4 °F (-13 to 167 °F) ±0.7 °F (remaining range)	8s	0613 2211*
Waterproof NTC immersion/penetration probe	 <p>4.5"</p> <p>Ø 0.20"</p> <p>Conn.: Fixed cable</p>	2" <p>Ø 0.16"</p>	-50 to +150 °C -31 to +302 °F	±0.5 % of rdg (212 to 302 °F) ±0.4 °F (-13 to 167 °F) ±0.7 °F (remaining range)	10s	0613 1212
Pipe wrap probe with Velcro for pipe diameter to max. 3', Tmax. 167 °F, NTC	 <p>Conn.: Fixed cable; Cable/length: 5'</p>	11.8" <p>1.2"</p>	-50 to +70 °C -31 to +158 °F	±0.4 °F (-13 to 158 °F) ±0.7 °F (-58 to 13 °F)		0613 4611



You can find industrial temperature probes tailored to your application at www.testo.com

The testo Saveris system has a variety of different configurations in order to meet your facility's every temperature, pressure and humidity monitoring need, regardless of industry.



■ Food

- Temperature monitoring in refrigerators and freezers
- Data is safely stored in a central location for evaluation and HACCP reporting



■ Healthcare

- Detailed reports for regulatory or compliance obligations
- Saveris is fully user-programmable and can be reconfigured as needed using "virtual zones"



■ Pharmaceutical

- Establish a controlled environment for sterile compounding
- Monitor differential pressure between controlled and non-controlled areas



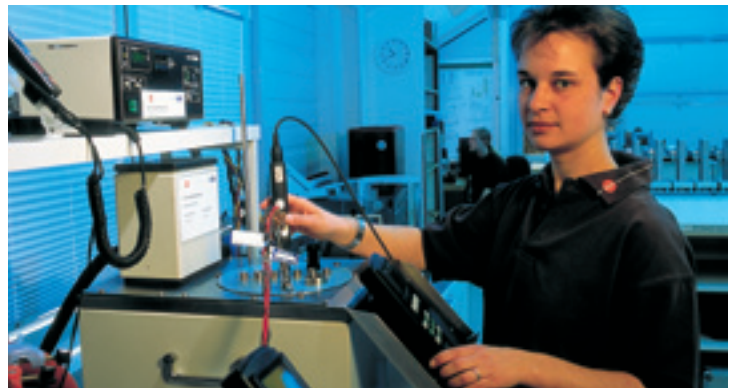
■ Warehouse

- Temperature, humidity, and pressure monitoring for optimum indoor climate
- Able to stand up to harsh environments often found in warehouses

Certification and Calibration Services

Adjustment

All testo Saveris probes are calibrated at the factory, which is confirmed by a Certificate of Conformance. Further calibrations can be completed on site with a proper calibration standard and the Saveris Adjustment Software and cable (order # 0572 0183), or calibrations and certifications can be provided at testo's ISO/ NIST Certified Metrology Lab. Testo's US lab has been certified to ISO 17025 and maintains NIST traceable calibration reference standards to cover calibration/certification needs of both testo and other manufacturer's instruments. Aside from the temperature and humidity, the testo Calibration Department is outfitted and ready to service your other calibration needs for pressure, airflow, and gases.



Other Measuring Solutions from testo

Testo offers a complete line of handheld test and measurement instruments for temperature, humidity, pressure, velocity, thermal imaging, combustion and more. Each is backed by the best warranties in the industry, expert technical support, and ISO calibration services.



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Portable Multifunction Instruments

- A large selection of probe options for a multitude of applications
- Large capacity memory for thousands of measured values
- Analyze and report data with convenient PC software



testo 176H2



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Data Loggers

- Ideal for monitoring ambient conditions in pharmacies, hospitals, and laboratories
- Rugged enough to stand up to any environment
- Multiple probe options



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Thermal Imagers

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- Software supported
- Best in Class Value / Performance



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- From economy versions for HVAC through feature rich industrial performance, testo provides a best fit solution for your humidity/moisture, pressure and temperature control requirements.