testo

Measure,
document,
issue alarms.

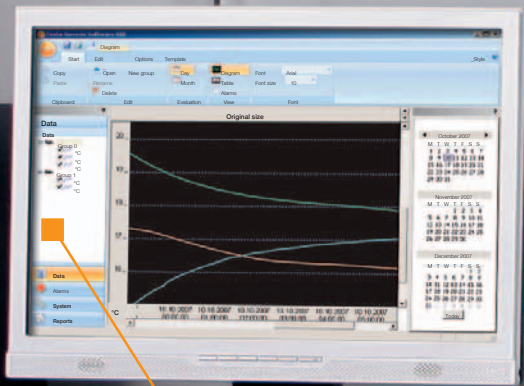Automated with **testo Saveris™**.

NEW
testo Saveris™

testo Saveris™: Simple, secure and efficient measurement data monitoring

The testo Saveris measurement system measures temperature and humidity values in the environment and in processes.
The easy-to-use measurement system delivers safety and time savings thanks to automated measurement data recording.

2

· Quick overview of system components
· Long-term memory provides safety and independence from the PC
· Alarm even without running PC
  - via LED
  - via relay output
  - via SMS
· Radio probe and Ethernet probe can be combined in one system

3

· Simple installation and configuration within few minutes
· Alarm via e-mail or directly on the screen
· Efficiency by means of central data storage of all measurement data
· Automatic creation of PDF reports

testo Saveris is ideally suited for

· and documentation of temperature or humidity data in production, quality
  assurance and R&D as well as in buildings
· Monitoring the storage climate of temperature and humidity sensitive products,
  e.g. valuable inventory, medicines and foodstuffs
· the foodstuff cooling chain

1
· Precise measurement of temperature and humidity values
· The simplest probe logon at commissioning
· Manual start or read out no longer required
· Radio probe: simple connection without routing cables
· Safety through bidirectional radio and memory capacity in the
  probe
· Optimized battery concept for long running life
· Numerous probe versions tailored to every application

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· You have time for the basics.
· testo Saveris measures, documents centrally
  and issues alarms if limit values are exceeded.

testo Saveris radio probe

The testo Saveris radio probes measure temperature and humidity. In the measuring cycle, the probes save the recorded measurement data and send it to the central base at regular intervals. If a limit value is exceeded, a radio link is established immediately. Through bidirectional transmission, the radio probe and the base are in mutual contact. This therefore ensures that the measurement data is only recorded by the base and is not interfered with by other radio systems.

An alarm sounds in the event that the radio link be interrupted by obstacles. The memory in the probe ensures that the measurement data is not lost in the event of an interference in the radio link. An optimized battery design ensures for long running life of the probe memory.

In free field, the transmission path is approx. 300 m at a frequency of 868 MHz and approx. 100 m at a frequency of 2.4 GHz. In buildings, the transmission path is strongly influenced by structural conditions such as walls, refrigerator doors or metal doors. The radio link can be improved or lengthened with poor structural conditions by using a router. Because the radio probe and the router show the quality of their radio link, the probe can personally be positioned optimally by the user.

Probe versions with internal and external sensors allow the adaptation to every application. The radio probes are available with or without a display as an option. Current measurement data, the battery status and the quality of the radio link are shown on the display.
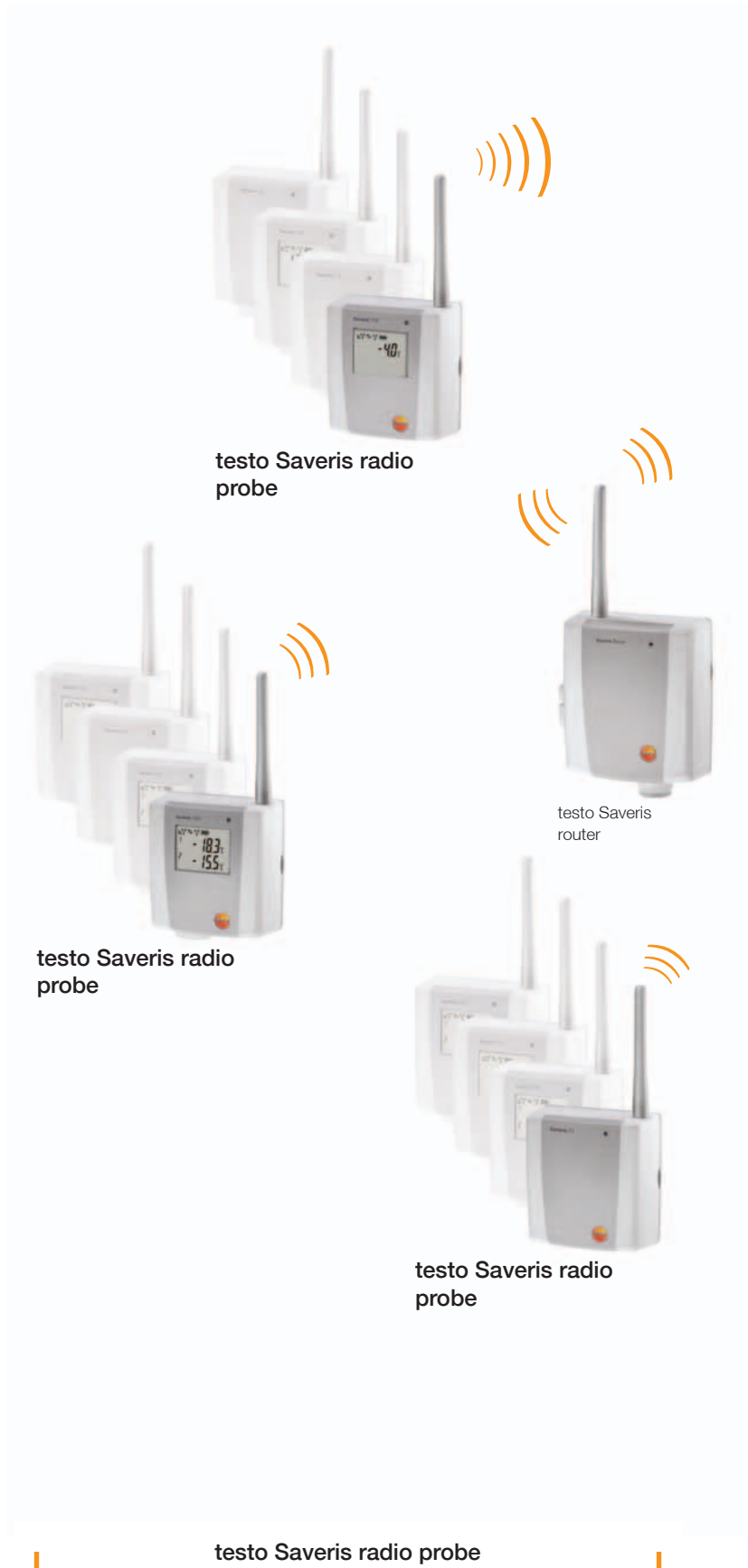
testo Saveris radio probe

testo Saveris Ethernet probe

In addition to the radio probes, probes can be used that are directly connected to the Ethernet. The existing LAN infrastructure can be used through this. This allows the data transfer from the probe to the base, even over long distances.
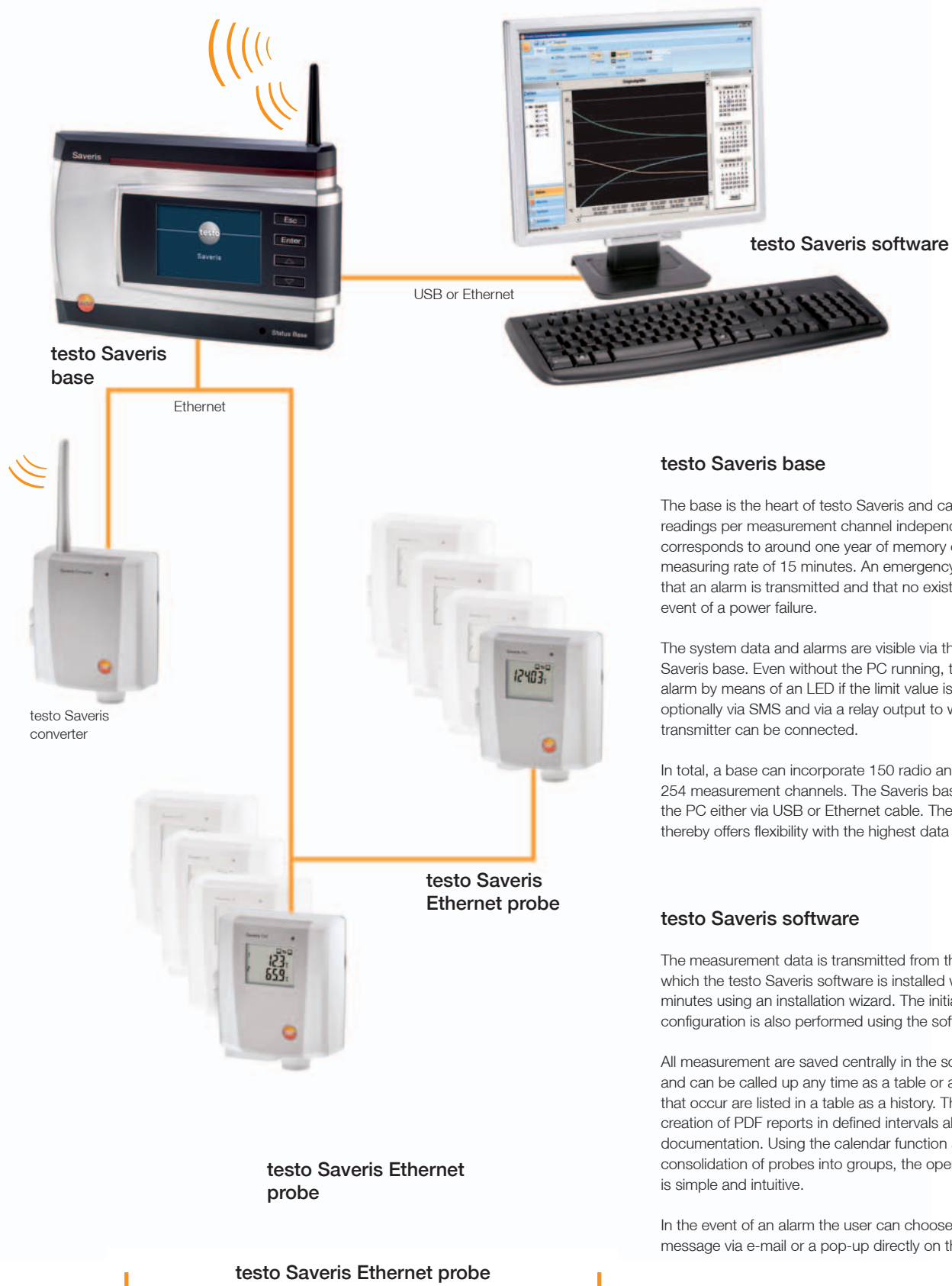
Ethernet probes can be used over any long periods since they are connected to the mains and therefore work independently of batteries. The internal memory guarantees that the existing measurement data is not lost, even with failure of the mains or the LAN connection.

A display informs about the current measurement data as well as the probe status. Different probe versions (probe partially plug-in) adapt to the conditions of the application.

Through the connection of a converter to an Ethernet jack, the signal of a radio probe can be converted into an Ethernet signal. This combines the flexible connection of the radio probe with the use of the existing Ethernet even over long transmission paths.

testo Saveris radio probe

testo Saveris router

testo Saveris radio probe

testo Saveris radio probe

testo Saveris software

USB or Ethernet

testo Saveris base

Ethernet

testo Saveris converter

testo Saveris Ethernet probe

testo Saveris Ethernet probe

testo Saveris Ethernet probe

testo Saveris base

The base is the heart of testo Saveris and can save 40,000 readings per measurement channel independent of the PC. This corresponds to around one year of memory capacity at a measuring rate of 15 minutes. An emergency battery ensures that an alarm is transmitted and that no existing data is lost in the event of a power failure.

The system data and alarms are visible via the display of the Saveris base. Even without the PC running, the base issues an alarm by means of an LED if the limit value is exceeded, or optionally via SMS and via a relay output to which an alarm transmitter can be connected.

In total, a base can incorporate 150 radio and Ethernet probes or 254 measurement channels. The Saveris base is connected to the PC either via USB or Ethernet cable. The Saveris base thereby offers flexibility with the highest data security.

testo Saveris software

The measurement data is transmitted from the base to a PC on which the testo Saveris software is installed within just a few minutes using an installation wizard. The initial system and probe configuration is also performed using the software.

All measurement are saved centrally in the software's database and can be called up any time as a table or a graphic. All alarms that occur are listed in a table as a history. The automatic creation of PDF reports in defined intervals also simplifies the documentation. Using the calendar function and the consolidation of probes into groups, the operation of the software is simple and intuitive.

In the event of an alarm the user can choose between receiving a message via e-mail or a pop-up directly on the screen.

Examples of applications for **testo Saveris™**

Production, quality assurance and storage

In industrial plants, a vast amount of quality data must be recorded in the production, quality assurance and storage of products. testo Saveris automates the documentation of this data and issues alarms if limit values are exceeded. Products and processes are thus secured at a stable quality level.

testo Saveris is ideal to use for monitoring and documenting climate and temperature data in the manufacturing sector, in store rooms, refrigerators and air conditioning chambers. The most varied applications are optimally covered by testo Saveris radio probes or Ethernet probes

Günter Ruf, Chairman of the Board of Directors
Straub Druck + Medien AG

„With testo Saveris, I have the perfect overview over all temperature and humidity data in processes and in the environment. The immediate issue of alarms provides me with important safety."

Research & development, laboratories & hospitals

Research and development areas such as laboratories are responsible for recording environmental and process data to monitor sensitive products and machines. testo Saveris takes on the central documentation of the series of measurements.

testo Saveris thus guarantees the simple and secure monitoring of climate and process data in air conditioning chambers, refrigerators, drying chambers or test benches. Thanks to the quick installation of testo Saveris, the system is suitable for short-term and long-term recording.

Monitoring the foodstuff cooling chain

Compliance with predefined temperature values is a decisive factor for quality in food production and is important for complying with legal hygiene requirements. Uninterrupted monitoring of the cooling chain in the supermarket and in specialist retailers is also necessary. testo Saveris automates the monitoring of the ambient and product temperatures in production plants, cold storage and freezer areas. Alarms are issued whenever the limit values are exceeded. The measurement data and alarms that have occurred are saved centrally in a database and are therefore accessible any time. testo Saveris conforms to the EN 12830 standard.

Monitoring of the building climate

When monitoring the building climate, stable ambient conditions are especially necessary in museums and archives in order to protect sensitive and expensive objects. testo Saveris automates the central recording of all climate data.

By issuing alarms when limit values are exceeded, testo Saveris protects valuable inventory from undesired temperature or humidity influences at all times. The radio probe can be flexibly attached to locations without the effort of routing cables.

Frank Brunecker, Museum Director
Museum Biberach

„With testo Saveris we finally have a system that automatically documents our room climate. With this, I know that our most prized inventory is being stored in a secure climate, and all this without cabling."

testo Saveris™ Software

1 Installation made easy

· Connect Saveris base to mains. The probes can now be logged on at the base: The probes are switched on in series and automatically identified by the base.

· The Saveris base is connected to the PC via USB or Ethernet. The software is installed on the PC with help from the installation wizard.

· The system is ready for configuration: Probe name, limit values, measuring cycles and alarms can be adapted to the individual measuring tasks.
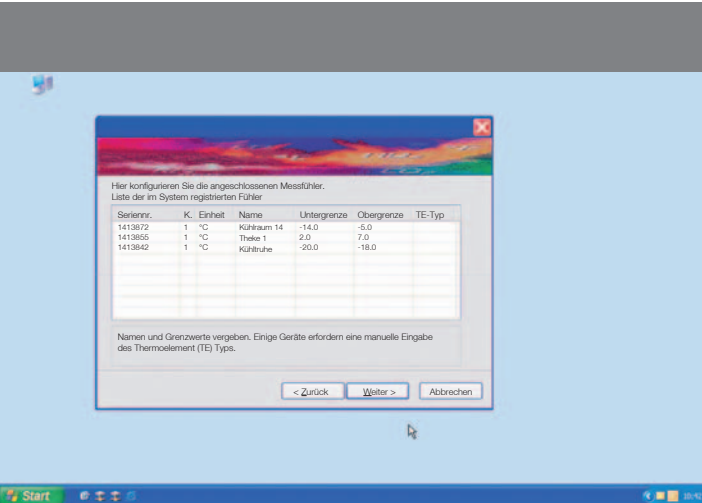
2 Clear and always up-to-date

· The measurement data can always be shown as a graphic or table.

· If alarms have been triggered, these can be listed separately.

· Various probes can be compiled into groups. Logical units –according to the measurement task –are thus formed.

· The measurement data view over days, weeks or months is freely definable. The integrated calendar offers practical assistance here.
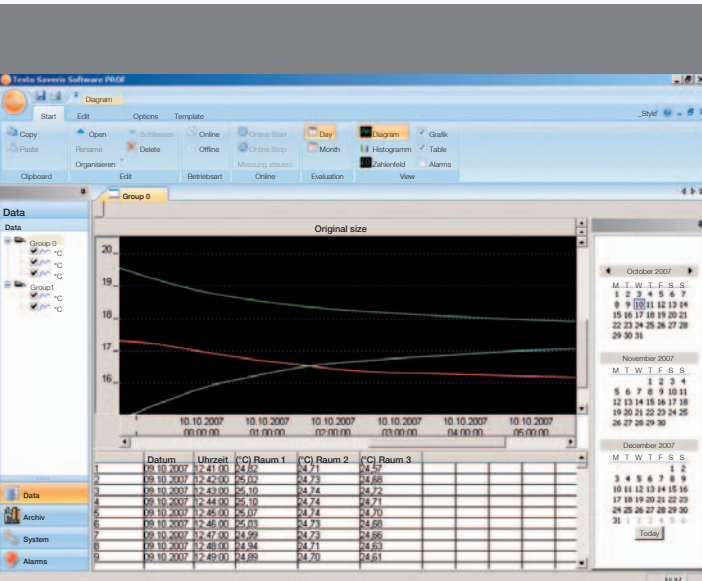
3 Automated documentation

· Form and time of the reporting are predefined once.

· The creation and saving of reports as a PDF file now takes place automatically in accordance with the set conditions. The files are therefore ready to be printed at any time.

Daily report

Cold storage house zone: Hourly mean values on 03.08.2007

Time	°C freezer 1	%RH cold room 1	°C refrigerator	°C drinks	°C freezer 2	°C freezer 3	°C freezer 4
0-1 h	-19,2	71,3	5,6	5,6	-19,2	-19,2	-19,2
1-2 h	-19,4	72,0	4,8	4,8	-19,4	-19,4	-19,4
2-3 h	-18,5	69,6	4,2	4,2	-18,5	-18,5	-18,5
3-4 h	-18,8	70,1	6,1	6,1	-18,8	-18,8	-18,8
4-5 h	-19,2	71,4	5,6	5,6	-19,2	-19,2	-19,2
5-6 h	-18,3	70,7	5,3	5,3	-18,3	-18,2	-18,3
6-7 h	-19,1	70,0	6,1	6,1	-19,1	-18,3	-19,1
7-8 h	-18,0	71,3	6,8	6,8	-18,0	-18,0	-18,0
8-9 h	-19,9	70,9	5,7	5,7	-19,9	-19,9	-19,9
9-10 h	-21,3	70,4	5,4	5,4	-21,3	-21,3	-21,3
10-11 h	-18,5	69,8	5,3	5,3	-18,5	-18,5	-18,5
11-12 h	-19,2	69,5	6,3	6,3	-19,2	-19,2	-19,2
12-13 h	-19,7	70,5	4,8	4,8	-19,7	-19,7	-19,7
13-14 h	-18,4	71,1	5,2	5,2	-18,4	-17,1	-18,4
14-15 h	-18,5	70,8	4,9	4,9	-18,5	-16,2	-18,5
15-16 h	-18,2	70,6	5,3	5,3	-18,2	-17,2	-18,2
16-17 h	-19,4	70,3	5,8	5,8	-19,4	-19,4	-19,4
17-18 h	-20,5	71,3	6,2	6,2	-20,5	-20,5	-20,5
18-19 h	-18,3	70,1	4,8	4,8	-18,3	-18,3	-18,3
19-20 h	-18,4	71,3	5,5	5,5	-18,4	-18,4	-18,4
20-21 h	-19,4	70,0	5,0	5,0	-19,4	-19,4	-19,4
21-22 h	-18,3	69,6	4,9	4,9	-18,3	-18,3	-18,3
22-23 h	-19,1	70,5	6,0	6,0	-19,1	-19,1	-19,1
23-24 h	-19,2	71,1	5,3	5,3	-19,2	-19,2	-19,2
Total maximum value	-18,1	72,5	6,8	6,8	-18,1	-15,3	-18,1
Total average value	-19,3	70,3	5,5	5,5	-19,3	-19,3	-19,3
Total minimum value	-21,3	68,1	4,0	4,0	-21,3	-21,3	-21,3

Small Business Edition (SBE) and Professional (PROF)

Now more flexible with Professional software

The Saveris software is available in two different versions. The basic version SBE (Small Business Edition) enables the appeal basic functions of the software. Die PROF (Professional) software version offers interesting additional functions, e.g.:

· The integration into the network via Ethernet. Constant monitoring of the measurement data is thereby possible. The measurement data can be monitored by various PCs integrated into the network.

· Photographs of machines or rooms can be saved as a picture. The respective measurement values are shown directly at the position of the probe in the room or at the machine in these. The link between the location and the measurement value is thus very easily visualized (s. picture).

· A comprehensive alarm management offers 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 e-mail, SMS or pop-up.
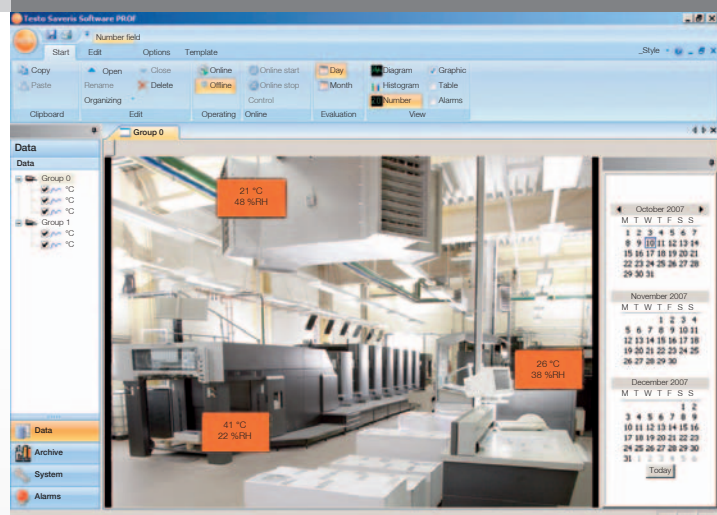
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Measurement data view via Internet

If external access to the measurement data from outside the location is required, Internet access for the display of all measurement data can be set up. Using a Web server, remote access to the required measurement data after logging in is possible from everywhere with Internet access.
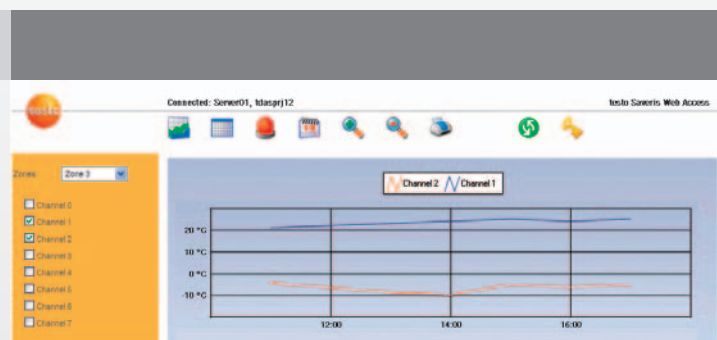
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Overview of software versions

	SBE	PROF
Simple installation and configuration	•	•
Diagrams/tables/alarm overview/PDF reports	•	•
Calendar management	•	•
Representation of probe group	•	•
Transmission of alarms (e-mail, SMS, relay)	•	•
Comprehensive alarm management		•
Constant monitoring in PC continuous operation		•
Measurement data on background photo of locations		•
Integration into network (client-server)		•

Ordering data

SBE software, incl. USB connecting cable base-PC

Part no.
0572 0180

PROF software, incl. USB connecting cable base-PC

Part no.
0572 0181

testo Saveris™ Base

The base is the heart of testo Saveris and can save 40,000 readings independent of the PC. The system data and alarms are visible via the display of the Saveris base.

- Display for showing alarms and system data
- Large data memory
- Issue of alarms via LED/relay
- SMS alarm (optional)
- Emergency battery integrated
- Up to 150 probes can be connected
- Connection option via USB or Ethernet

Technical data

Memory	40,000 values per channel (total max. 10,160,000 values)
Dimensions	225 x 150 x 49 mm
Weight	Approx. 1510 g
Protection class	IP42
Material/Housing	Diecast zinc / plastic
Radio frequency	868 MHz / 2.4 GHz
Power supply (absolutely necessary)	6.3 V DC mains unit; 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 with failure of the power supply)
Oper. temp.	-10 to +50 °C
Storage temp.	-40 to +85 °C
Display	graphical display, 4 control keys
Interfaces	USB, radio, Ethernet
Connectable radio probe	max. 15 probes can be directly connected via radio interface, max. 150 total via radio/router/converter/Ethernet, max. 254 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

868 MHz	**Saveris base, radio frequency 868 MHz**	Part no. 0572 0120
868 MHz	**Saveris base, radio frequency 868 MHz, GSM module integrated (for SMS alarm)**	Part no. 0572 0121
2.4 GHz	**Saveris base, radio frequency 2.4 GHz**	Part no. 0572 0160
2.4 GHz	**Saveris base, radio frequency 2.4 GHz, GSM module integrated (for SMS alarm)**	Part no. 0572 0161

No mains units or antennas with magnetic base are contained in this ordering data.

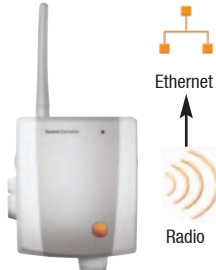## Note on the radio frequencies

868 MHz: EU countries and certain other countries (e.g. CH, NOR)

2.4 GHz: non-EU countries (country list can be called up under **www.testo.com/saveris**)

testo Saveris™ Components: Router, converter and accessories

The radio link can be improved or lengthened with poor structural conditions by using a router. Naturally several routers are possible in the testo Saveris system, but several routers are not connected in series.
Through the connection of a converter to an Ethernet jack, the signal of a radio probe can be converted into an Ethernet signal. This combines the flexible connection of the radio probe with the use of the existing Ethernet even over long transmission paths.

|	Saveris router	Saveris converter
Dimensions	Approx. 85 x 100 x 38 mm	Approx. 85 x 100 x 35 mm
Weight	Approx. 180 g	Approx. 190 g
Power supply	6.3 V DC mains unit; alternatively via 24 V AC/DC plug-in/screw terminals, power consumption < 0.5 W	6.3 V DC mains unit; alternatively via 24 V AC/DC plug-in/screw terminals, power consumption < 2 W
Oper. temp.	-20 to +50 °C	-20 to +50 °C
Storage temp.	-40 to +85 °C	-40 to +85 °C
Material/Housing	Kunststoff	Kunststoff
Protection class	IP54	IP54
Interfaces	Radio	Radio, Ethernet
Connectable radio probe	max. 5	max. 15
Wall bracket	included	included
Versions **868 MHz**	Saveris router, 868 MHz, radio transmission medium Part no. 0572 0119	Saveris converter, 868 MHz, converts the radio transmission medium to Ethernet Part no. 0572 0118
2.4 GHz	Saveris router, 2.4 GHz, radio transmission medium Part no. 0572 0159	Saveris converter, 2.4 GHz, converts the radio transmission medium to Ethernet Part no. 0572 0158

No mains units are contained in this ordering data.

Accessories	Part no.
Power supply	**Part no.**
Battery for radio probe (4 AA alkali manganese mignon batteries)	0515 0414
Battery for radio probe for use below -10 °C (4 Energyzer L91 Photo lithium)	0515 0572
100-240 V DC mains unit; for testo Saveris base, router, converter, Ethernet probe	0554 1096
Mains unit (rail mounting) 90 to 264 VAC/ 24 VDC (2.5A)	0554 1749
Mains unit (desk-top) 110 to 240 VAC/24 VDC (350mA)	0554 1748
Other features	**Part no.**
① Magnetic foot aerial with 3 m cable, for base with GSM module	0554 0524
② Alarm module (visual + acoustic), can be connected to base alarm relay, diam. 70 x 164 mm, 24 V AC/DC or 320 mA, steady on: red, steady tone: buzzer approx. 2.4 kHz	0629 6666
Software	**Part no.**
SBE software, incl. USB connecting cable base-PC	0572 0180
PROF software, incl. USB connecting cable base-PC	0572 0181
Saveris adjustment software incl. connection cable for wireless and Ethernet probes	0572 0183
Measurement data view via Internet	On request
Calibration Certificates	**Part no.**
ISO calibration certificate/temperature; temp. data logger; calibration points -18°C; 0°C; +60°C	0520 0151
DKD calibration certificate/temperature; temp. data logger; cal. points -20°C; 0°C; +60°C	0520 0261
ISO cal. cert./humidity; humidity data logger; calibration points 11.3%RH and 75.3%RH at +25°C	0520 0076
DKD calibration cert./humidity; humidity data logger; cal. points 11.3%RH and 75.3%RH at +25°C	0520 0246

Note on the radio frequencies

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2.4 GHz: non-EU countries (country list can be called up under **www.testo.com/saveris**)
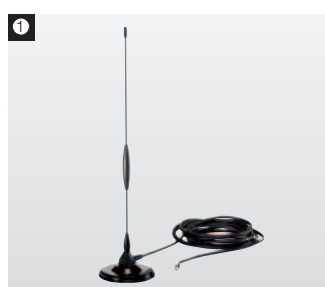
Magnetic foot aerial

Alarm module (visual + acoustic), can be connected to base alarm relay

testo Saveris™ Components: Radio probes

Probe versions with internal and external temperature sensors and with humidity sensors allow the adaptation to every application. The radio probes are available with or without a display as an option. Current measurement data, the battery status and the quality of the radio link are shown in the display.

Radio

	°C				%RH, °C
	NTC internal	NTC internal / NTC external	NTC external / TC external	Pt 100 external	%RH / NTC internal
	Saveris T1 Radio probe with internal NTC	**Saveris T2** Radio probe with external probe connection and internal NTC, door contact	**Saveris T3** 2-channel radio probe with 2 external TC probe connections (Choice of TC characteristics)	**Saveris Pt** Radio probe with 1 external Pt100 probe connection	**Saveris H3** Humidity radio probe

Internal sensor

	Saveris T1	Saveris T2	Saveris T3	Saveris Pt	Saveris H3	
Probe type	NTC	NTC			NTC	Humidity sensor
Meas. range	-35 to +50 °C	-35 to +50 °C			-20 to +50 °C	0 to 100 %RH
Accuracy	±0.4 °C (-25 to +50 °C) ±0.8 °C (remaining range)	±0.4 °C (-25 to +50 °C) ±0.8 °C (remaining range)			±0.5 °C	±3 %RH
Resolution	0.1 °C	0.1 °C			0.1 °C / 0.1 °C td	0.1%

External probe

Probe type		NTC	TC type K / TC type J / TC type T / TC type S	Pt100	
Meas. range (Instrument)		-50 to +150 °C	TC type K: -195 to +1350 °C / TC type J: -100 to +750 °C / TC type T: -200 to +400 °C / TC type S: 0 to +1760 °C	-200 to +600 °C	
Accuracy (Instrument)		±0.2 °C (-25 to +70 °C) ±0.4 °C (remaining range)	0.5 °C or 0.5% of mv	at 25 °C ±0.1 °C (0 to +60 °C) ±0.2 °C (-100 to +200 °C) ±0.5 °C (remaining range)	
Resolution		0.1 °C	0.1 °C 1 °C	0.01 °C	

Connection		NTC via mini-DIN socket, door contact connection cable included in delivery (1.80 m)	2 TCs via TC socket, max. difference in potential 2 V	1 Pt100 via mini-DIN socket	
Dimensions (housing):	80 x 85 x 38 mm				
Weight	Approx. 240 g				
Battery type	4 AA batteries				
Battery life	Battery life at +25 °C, 3 years; for freezer applications, 3 years with L91 Photo lithium Energyzer batteries				
Material/Housing	Kunststoff				
Protection class	IP68	IP68	IP54	IP68	IP42
Radio frequency	868 MHz / 2.4 GHz				
Measuring rate	Standard 15 min, 1 min to 24 h can be set				
Conformity with standards	DIN EN 12830				
Oper. temp.	-35 to +50 °C		-20 to +50 °C		
Storage temp.	-40 to +55 °C				
Display (optional)	LCD, 2 lines; 7-segment with symbols				
Transmission distance	approx. 300 m free field at a frequency of 868 MHz, approx. 100 m free field at a frequency of 2.4 GHz				
Wall bracket	included				

Versions

		Saveris T1	Saveris T2	Saveris T3	Saveris Pt	Saveris H3
868 MHz	Version without display	**Saveris T1** Part no. 0572 1110	**Saveris T2** Part no. 0572 1111	**Saveris T3** Part no. 0572 9112	**Saveris Pt** Part no. 0572 7111	**Saveris H3** Part no. 0572 6110
	Version with display	**Saveris T1 D** Part no. 0572 1120	**Saveris T2 D** Part no. 0572 1121	**Saveris T3 D** Part no. 0572 9122	**Saveris Pt D** Part no. 0572 7121	**Saveris H3 D** Part no. 0572 6120
2.4 GHz	Version without display	**Saveris T1** Part no. 0572 1150	**Saveris T2** Part no. 0572 1151	**Saveris T3** Part no. 0572 9152	**Saveris Pt** Part no. 0572 7151	**Saveris H3** Part no. 0572 6150
	Version with display	**Saveris T1 D** Part no. 0572 1160	**Saveris T2 D** Part no. 0572 1161	**Saveris T3 D** Part no. 0572 9162	**Saveris Pt D** Part no. 0572 7161	**Saveris H3 D** Part no. 0572 6160

The AA alkali manganese mignon batteries (0515 0414) are contained in this ordering data.

testo Saveris™ Components: Ethernet probes

The existing LAN infrastructure can be used through the Ethernet probe. This allows the data transfer from the probe to the base, even over long distances. Ethernet probes have a display.

	°C		%RH, °C			
	Pt 100 external	**TC** external		**%RH** **NTC** external		**%RH** **NTC** external
Ethernet	**Saveris Pt E** Ethernet probe with external Pt100 probe connection	**Saveris T4 E** 4-channel Ethernet probe with 4 external TC probe connections	**Saveris H2 E** Humidity Ethernet probe 2 %		**Saveris H1 E** Humidity Ethernet probe 1%	

	Probe type	**Pt100**	**TC type T**	**TC type S**	**Humidity sensor**	**NTC**	**Humidity sensor**	**NTC**
External probe	Meas. range (Instrument)	-200 to +600 °C	-200 to +400 °C	0 to +1760 °C	0 to 100 %RH*	-20 to +70 °C	0 to 100 %RH*	-20 to +70 °C
			TC type K	**TC type J**				
			-195 to +1350 °C	-100 to +750 °C				
	Accuracy (Instrument)	at 25 °C ±0.1 °C (0 to +60 °C) ±0.2 °C (-100 to +200 °C) ±0.5 °C (remaining range)	0.5 °C or 0.5% of mv		to 90 %RH: ±2 %RH > 90 %RH: ±3 %RH	±0.5 °C	to 90 %RH: ±(1 %RH +0.7 % of mv) at +25 °C > 90 %RH: ±(1.4 %RH +0.7 % of mv) at +25 °C	±0.2 °C (0 to +30 °C) ±0.5 °C (remaining range)
	Resolution	0.01 °C	0.1 °C 1 °C		0.1% / 0.1 °C td	0.1 °C	0.1% / 0.1 °C td	0.1 °C
Connection		Mini-DIN service interface is accessible externally						
		1 Pt100 via mini-DIN socket	4 TCs via TC socket, max. difference in potential 50 V					
Dimensions (housing):		Approx. 85 x 100 x 38 mm						
Weight		Approx. 220 g	Approx. 220 g		Approx. 230 g		Approx. 230 g	
Power supply (absolutely necessary)		6.3 V DC mains unit; alternatively via 24 V AC/DC plug-in/screw terminals						
Buffer battery		Li-ion						
Material/Housing		Kunststoff						
Protection class		IP54						
Measuring rate		2 s to 24h						
Oper. temp.		-20 to +70 °C						
Storage temp.		-40 to +85 °C						
Display		LCD, 2 lines; 7-segment with symbols						
Wall bracket		included						
		Saveris Pt E With display Part no. 0572 7191	**Saveris T4 E** With display Part no. 0572 9194		**Saveris H2 E** With display Part no. 0572 6192		**Saveris H1 E** With display Part no. 0572 6191	

No mains units are contained in this ordering data

*not for continuous high-humidity applications

Sintered caps for Saveris H1 E and H2 E Ethernet probes	Part no.
Metal protection cage, Ø 12 mm for humidity probes, for measurement in flow velocities of less than 10 m/s	0554 0755
Cap with wire mesh filter, Ø 12 mm	0554 0757
Teflon sintered filter, Ø 12 mm, for corrosive substances, high humidity range (long-term measurements), high velocities	0554 0756
Stainless steel sintered cap, Ø 12 mm, is screwed onto humidity probe, for measurements at high flow velocities or in contaminated air	0554 0647
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	Illustration			Meas. range	Accuracy	t99	Part no.
Robust, Pt100 stainless steel food probe (IP65)	125 mm Ø 4 mm Conn.: Fixed cable	15 mm Ø 3 mm		-50 to +400 °C	Class A (-50 to +300 °C), Class B (remaining range)	10 s	0609 2272
Robust, waterproof Pt100 immersion/penetration probe	114 mm Ø 5 mm Fixed cable	50 mm Ø 3.7 mm		-50 to +400 °C	Class A (-50 to +300 °C), Class B (remaining range)	12 s	0609 1273
Connection cable for Pt100 stationary probe with screw terminals (4-wire technology)							0554 0213

TC

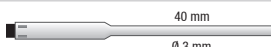| Plug-in probes	Illustration			Meas. range	Accuracy	t99	Part no.
Stationary probe with stainless steel sleeve, TC Type K	40 mm Ø 6 mm Conn.: Fixed cable 1.9 m			-50 to +205 °C	Class 2*	20 s	0628 7533
Robust air probe, T/C Type K	115 mm Ø 4 mm Conn.: Fixed cable 1.2 m			-60 to +400 °C	Class 2*	25 s	0602 1793
Magnetic probe, adhesive force approx. 20 N, with magnets, for measurements on metal surfaces, TC Type K	35 mm Ø 20 mm Fixed cable			-50 to +170 °C	Class 2*	150 s	0602 4792
Magnetic probe, adhesive force approx. 10 N, with magnets, for higher temp., for measurements on metal surfaces, TC Type K	75 mm Ø 21 mm Conn.: Fixed cable 1.6 m			-50 to +400 °C	Class 2*		0602 4892
Pipe wrap probe for pipe diameter 5 to 65 mm, with exchangeable measuring head. Meas. range short-term to +280°C, TC Type K	Conn.: Fixed cable 1.2 m			-60 to +130 °C	Class 2*	5 s	0602 4592
Pipe wrap probe with Velcro strip, for temperature measurement on pipes with diameter up to max. 120 mm, Tmax +120°C, TC Type K	395 mm 20 mm Conn.: Fixed cable 1.5 m			-50 to +120 °C	Class 1*	90 s	0628 0020
Thermocouple with TC adapter, flexible, 800mm long, fibre glass, TC Type K	800 mm Ø 1.5 mm			-50 to +400 °C	Class 2*	5 s	0602 0644
Thermocouple with TC adapter, flexible, 1500mm long, fibre glass, TC Type K	1500 mm Ø 1.5 mm			-50 to +400 °C	Class 2*	5 s	0602 0645
Thermocouple with TC adapter, flexible, 1500mm long, Teflon, TC Type K	1500 mm Ø 1.5 mm			-50 to +250 °C	Class 2*	5 s	0602 0646
Immersion tip, flexible, TC Type K	500 mm Ø 1.5 mm			-200 to +1000 °C	Class 1*	5 s	0602 5792
Immersion measurement tip, flexible, for measurements in air/exhaust gases (not suitable for measurements in smelters), TC Type K	Ø 3 mm 1000 mm			-200 to +1300 °C	Class 1*	4 s	0602 5693
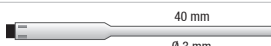
The specified accuracy class of the Saveris radio and Ethernet probe is achieved using these external probes.

*According to standard EN 60584-2, the accuracy of Class 1 refers to -40 to +1000 °C (Type K), Class 2 to -40 to +1200 °C (Type K), Class 3 to -200 to +40 °C (Type K).

Testo Celsius Configurator

You can find all temperature probes tailored to your application at **www.testo-celsius.de** or in the „Stationary measurement solutions" catalogue.

testo Saveris™ Accessories: External temperature probes

NTC Plug-in probes	Illustration	Meas. range	Probe accuracy	t99	Part no.
◖ Stub probe, IP 54	35 mm / Ø 3 mm	-20 to +70 °C	±0.2 °C (-20 to +40 °C) ±0.4 °C (+40.1 to +70 °C)	15 s	0628 7510
◖ Stationary probe with aluminium sleeve, IP 65	40 mm / Ø 6 mm Conn.: Fixed cable; Cable/length: 2.4 m	-30 to +90 °C	±0.2 °C (0 to +70 °C) ±0.5 °C (remaining range)	190 s	0628 7503*
◖ Accurate imm./pen. probe, 6m cable, IP 67	40 mm / Ø 3 mm Ø 3 mm Conn.: Fixed cable; Cable/length: 6 m	-35 to +80 °C	±0.2 °C (-25 to +74.9 °C) ±0.4 °C (remaining range)	5 s	0610 1725*
◖ Accurate immersion/penetration probe, cable: 1.5 m long, IP 67	40 mm / Ø 3 mm Ø 3 mm Conn.: Fixed cable; Cable/length: 1.5 m	-35 to +80 °C	±0.2 °C (-25 to +74.9 °C) ±0.4 °C (remaining range)	5 s	0628 0006*
Wall surface temperature probe, e.g. to prove damage in building material	Conn.: Fixed cable; Cable/length: 3 m	-50 to +80 °C	±0.2 °C (0 to +70 °C)	20 s	0628 7507
◖ Stainless steel NTC food probe (IP65) with PUR cable	125 mm / Ø 4 mm 15 mm / Ø 3 mm Conn.: Fixed cable; Cable/length: 1.5 m	-50 to +150 °C[1]	±0.5% of mv (+100 to +150 °C) ±0.2 °C (-25 to +74.9 °C) ±0.4 °C (remaining range)	8 s	0613 2211*
◖ Waterproof NTC immersion/penetration probe	115 mm / Ø 5 mm 50 mm / Ø 4 mm Conn.: Fixed cable	-50 to +150 °C	±0.5% of mv (+100 to +150 °C) ±0.2 °C (-25 to +74.9 °C) ±0.4 °C (remaining range)	10 s	0613 1212
Pipe wrap probe with Velcro for pipe diameter to max. 75 mm, Tmax. +75°C, NTC	300 mm / 30 mm Conn.: Fixed cable; Cable/length: 1.5 m	-50 to +70 °C	±0.2 °C (-25 to +70 °C) ±0.4 °C (-50 to -25.1 °C)		0613 4611

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

* Probe tested to EN 12830 for suitability in the transport and storage sectors

12) Long-term measurement range +125°C, short-term +150°C or +140°C (2 minutes)

Testo Celsius Configurator

You can find all temperature probes tailored to your application at **www.testo-celsius.de** or in the „Stationary measurement solutions" catalogue.

testo Saveris™ Sets

You can assemble all individual components yourself, of course, but you also have the option of ordering a testo Saveris set. This can be supplemented with individual components as required.

Saveris set 1

Set 1: 868 MHz, consisting of base 0572 0120, 3 NTC radio probes without display 0572 1110, mains unit for base 0554 1096 and SBE software 0572 0180 incl. USB cable

Set 1, 868 MHz
Part no. 0572 0110

Set 1: 2.4 GHz, consisting of base 0572 0160, 3 NTC radio probes without display 0572 1150, mains unit for base 0554 1096 and SBE software 0572 0180 incl. USB cable

Set 1, 2.4 GHz
Part no. 0572 0150

Saveris set 2

Set 2: 868 MHz, consisting of base 0572 0120, 5 NTC radio probes with display 0572 1120, router 0572 0119, 2 mains units for base and router 0554 1096 and SBE software 0572 0180 incl. USB cable

Set 2, 868 MHz
Part no. 0572 0111

Set 2: 2.4 GHz, consisting of base 0572 0160, 5 NTC radio probes with display 0572 1160, router 0572 0159, 2 mains units for base and router 0554 1096 and SBE software 0572 0180 incl. USB cable

Set 2, 2.4 GHz
Part no. 0572 0151

Saveris set 3

Set 3: 868 MHz, consisting of base 0572 0121 incl. GSM module for SMS alarm, antenna with magnetic base 0554 0524, 5 NTC radio probes with display 0572 1120, router 0572 0119, 2 mains units for base and router 0554 1096 and SBE software 0572 0180 incl. USB cable

Set 3, 868 MHz
Part no. 0572 0112

Set 3: 2.4 GHz, consisting of base 0572 0161 incl. GSM module for SMS alarm, antenna with magnetic base 0554 0524, 5 NTC radio probes with display 0572 1160, router 0572 0159, 2 mains units for base and router 0554 1096 and SBE software 0572 0180 incl. USB cable

Set 3, 2.4 GHz
Part no. 0572 0152

Adjustment and service

Adjustment

Naturally all testo Saveris probes are adjusted in the factory, which is confirmed by an adjustment report. You can perform further calibrations or adjustments either yourself on site, via a service provider or in a calibration laboratory. The separate Saveris adjustment software is available for this. After successful adjustment, the current data is stored in the probe. At the same time, the adjustment software and the Saveris software accept this data so that the adjustment histories are available.
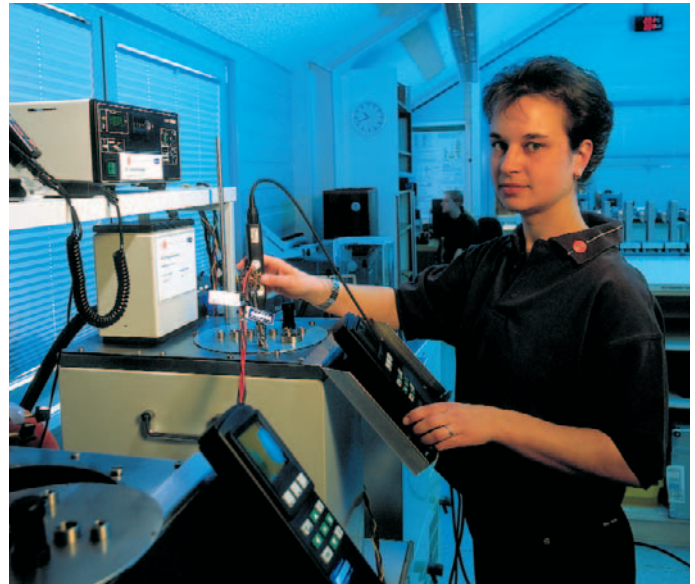
Radio and Ethernet probes are connected to a cable via the service interface for adjustment.

If you do not wish to perform your own calibration, testo is available as a service provider.

Ordering data
Saveris adjustment software incl. connection cable for wireless and Ethernet probes
Part no. 0572 0183

Service

testo is a manufacturer of measuring instruments and measuring systems with a global presence, with 27 international subsidiaries and representatives in numerous countries. Naturally, testo also offers you on-site service. For questions regarding testo Saveris, from installation to retrofitting further system components, please refer to your competent contact in your country.

You can find an overview of the nearest service location at www.testo.com.

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