

# Measurement data monitoring system testo Saveris™

Automated and uninterrupted measurement data recording

Stationary and mobile data monitoring in one system

Flexible system set-up with wireless or Ethernet probes in many probe versions

Extensive alarm management

Automatic creation of measurement data reports

Integration of other further measurement parameters via standard interfaces





### testo Saveris™: Easy, secure and efficient measurement data montoring

The data monitoring system testo Saveris measures temperature and humdity values in sensitive goods and products, in the surroundings, in processes and during transport. The easily operated measurement system provides security as well as savings of time and costs thanks to automated measurement data recording. In stationary operation, measurement data transfer takes place by wireless and/or Ethernet connection to a base station. This documents and monitors all measurement data. If limit values are exceeded, a number of alarm options such as SMS/e-mail alarm or alarm relay are available. Remote alarms can also be triggered even when the system is not connected to a running PC. If measurement parameters are documented during transport, the driver receives all necessary information and alarms via a cockpit unit in the driver's cabin. The documentation and monitoring takes place via wireless probes, and a complicated installation of wired sensors in the truck is unnecessary. At the same time, there is the possibility of printing out the measurement data using an infrared printer on site during the handover of goods. All recorded data, whether they are recorded stationary or in transport, are centrally stored in a software. The Saveris software also allows a comprehensive analysis and evaluation of all recorded measurement data. With testo Saveris, all measurement data are under control – stationary and in transport.













# testo Saveris™ system overview

### Data monitoring for uninterrupted control

### testo Saveris™ wireless probes

Probe versions with internal as well as external temperature and humidity sensors allow the adaptation to any application. The wireless probes are available optionally with or without display. The current measurement data, the battery status and the quality of the wireless connection are shown.

### testo Saveris™ Router

The use of a router can improve or extend the wireless connection in difficult constructional circumstances. Several routers in the testo Saveris system are of course possible. At the same time, the serial switching if up to 3 routers V 2.0 provides the highest level of flexibility regarding wireless range.

### testo Saveris™ Converter

By connecting a testo Saveris converter to an Ethernet socket, the signal from a wireless probe can be converted into an Ethernet signal. This combines the flexible installation of a wireless probe with the exploitation of the existing Ethernet even over long transmission distances.



testo Saveris™ wireless probes

testo Saveris™ Router





testo Saveris™ Analog coupler (Ethernet)

testo Saveris™ Converter V 2.0

Ethernet

testo Saveris™ Analog coupler (wireless)

Humidity transmitter

### testo Saveris™ analog coupler

The two versions of the analog coupler (wireless/Ethernet) allow the integration of further measurement parameters into the testo Saveris monitoring system, by including all transmitters with standardized current/voltage interfaces, e.g. 4 to 20 mA or 0 to 10 V.

# Humidity and differential pressure transmitters testo 6651/6681/6351/6381/6383

By integrating the humidity and differential pressure transmitters, measurement data monitoring parallel to the control is possible. This offers the solution for highest accuracy as well as for special applications, (high humidity, trace humidity etc.) in compressed air, drying and air conditioning technology.

Find out more at www. testo.com

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We measure it.





### testo Saveris™ Base

The base is the heart of testo Saveris, and can store 40,000 measurement values per measurement channel independently of a PC. This corresponds to a storage capacity of approximately a year at a measurement rate of 15 minutes. System data and alarms are visible via the Saveris base display.

### testo Saveris™ software

The testo Saveris software offers easy operation as well as an intuitive user interface. The Saveris software is available in three different versions: as a basic version SBE (Small Business Edition), as a PROF version (professional) with many additional options, or as a CFR version. The CFR software fulfils the 21 CFR Part 11 requirements of the FDA, and is thus validatable.



### testo Saveris™ Ethernet probes

In addition to the wireless probes, probes can be used which can be directly connected to the Ethernet. This means that an existing LAN structure to be used, allowing the data transfer from probe to base even over large distances.

### testo Saveris™ Extender

By connecting a Saveris Extender, the wireless signal of a transport probe (mobile probe) is converted into an Ethernet signal. The data transfer from wireless probe to Extender takes place automatically when sufficient wireless connection is present.

### testo Saveris™ Cockpit Unit

The Saveris Cockpit Unit displays all measurement values to the driver uninterruptedly during transport. If limit values are violated, the driver is immediately warned. Alternatively, the complete data recording can be printed out at the handover site of the goods using the Testo printer on the Cockpit Unit.

# Overview of application areas for testo Saveris™



### Monitoring processes in the pharmaceutical industry

In the pharmaceutical industry, the recording and monitoring of quality parameters is subject to strict requirements. Constant documentation during the production, transport and storage of temperature-sensitive products such as medicines, blood products or cell cultures has long been considered a "must".

testo Saveris automates central documentation as well as safe monitoring in refrigerated or deep-freeze rooms, incubators and climate cabinets. At the same time, the system allows uninterrupted measurement data recording during the transport of temperature- or humidity-critical products such as medicaments or vaccines. testo Saveris thus offers optimum control, from production and storage, via transport, to delivery.

The comprehensive alarm management allows fast alarms if limit values are exceeded. Thanks to the combination of wireless and/or Ethernet probes, the system concept is ideal for many different applications in the pharmaceutical industry. The data monitoring system testo Saveris of course complies with the requirements of 21 CFR Part 11.

### Monitoring building climate

Especially in museums and archives, stable ambient conditions are indispensable in the monitoring of building climate, in order to protect sensitive and valuable objects. And during transport too, precious goods must be constantly monitored. testo Saveris automates the central recording of all ambient data, not only stationary, but also during transport.

Thanks to the alarms when limit values are exceeded, testo Saveris protects valuable inventory at all times from undesired temperature or humidity influences. The wireless probes can be flexibly installed at the measurement sites without complicated wiring.



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# Monitoring of processes in research and development, laboratories and hospitals

Research and development areas as well as laboratories and hospitals are responsible for the recording of ambient and process data, in order to monitor sensitive products or machines. However, the monitoring of temperature- and humidity-critical goods during transport too, is indispensable for a high standard of quality. testo Saveris takes over the central documentation of the measurement series, not only for stationary, but also for transport applications. testo Saveris thus guarantees the easy and safe monitoring of ambient and process data in climate cabinets, refrigerators, incubators, test benches or blood banks. If critical values are to be monitored during transport, testo Saveris offers the optimum solution.

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# Overview of application areas for testo Saveris™

### Monitoring the food cold chain

The maintenance of pre-defined temperature values is crucial for quality in food production, and important for the fulfilment of legal hygiene standards. The deciding factor. however, is the uninterrupted maintenance of the cold chain during production, storage and above all transport. In the final analysis, only this uninterrupted monitoring guarantees an evaluation of the quality and freshness of the products. testo Saveris automates not only the monitoring of the ambient and product temperatures during production and storage, but also the maintenance of defined temperature limit values during transport. The installation of wireless probes in the truck makes the troublesome wiring of the driver's cabin unnecessary. Alarms are of course immediately triggered when limit values are exceeded.

The measurement data from stationary and transport applications are stored centrally in a database, and are available at any time. All measurement values are thus under control! It goes without saying that testo Saveris complies with the EN12830 standard.

# Monitoring in production, storage and transport in industry

A number of quality data must be recorded and monitored in production, storage and transport in industry. testo Saveris automates the documentation of these data and provides alarms when upper or lower limit values are exceeded. The quality of the products and processes is thus guaranteed at a stable level.

testo Saveris is ideally applicable for the monitoring and documentation of ambient and temperature data in production areas, in storerooms, refrigerators and climate cabinets. At the same time, testo Saveris allows the uninterrupted recording of measurement parameters during the transport of sensitive goods.

Various applications, stationary as well as in transport, are optimally covered by testo Saveris wireless and/or Ethernet probes.











### testo Saveris<sup>™</sup> software

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Daily report

-19

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-19, -20, -18, -18, -19, -19, -18, -18, -19,

### Installation made easy

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

### Clear and always up-to-date

- $\cdot$  The measurement data can always be shown as a graph or table.
- $\cdot$  Various probes can be compiled into groups. Logical units by measurement task are thus formed.
- $\cdot$  The measurement data view over days, weeks or months is freely definable. The integrated calendar offers practical assistance here.

### **Automated documentation**

- $\cdot$  Format and time of the report creation 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.

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d storage

3-41 4-51 5-61 6-71 7-81 8-91 9-10 10-1 11-1 12-1 13-1 14-1 15-1 16-1 17-11

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# Small Business Edition (SBE), Professional (PROF) and CFR-Version

#### Even more flexible with Professional software

The PROF (Professional) software version offers interesting additional functions beyond the attractive standard functions of the basic version SBE, e.g.:

- $\cdot$  Client-server concept: 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 (fig. 4).
- 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 or the time, it is possible to choose whether the alarm is given as an e-mail and/or an SMS.
- $\cdot$  Tour planning with calendar management allows a clear presentation of planned and completed transports.



### Validatable CFR software

The CFR software fulfils the requirements of the FDA's 21 CFR Part 11 and is thus validatable.

### **Overview of software functions**

|  | SBE      | PROF | CFR |
|--|----------|------|-----|
| Diagrams / tables / Alarm overview / PDF reports   | •        | •    | •   |
| Calendar management  | •        | •    | •   |
| Presentation of probe groups   | •        | •    | •   |
| Alarm dispatch (e-mail, SMS, relay)  | •        | •    | •   |
| Comprehensive alarm management in stationary operation   | on       | •    | •   |
| Automated update of measurement data   |          | •    | ٠   |
| ("Online mode") in stationary operation  |          | •    | ٠   |
| Measurement data on background photo of measurement  | nt sites | •    | •   |
| Integration in network (client-server)   |          | •    | ٠   |
| Tour planning with calendar management   |          | ٠    | •   |
| Allocation of access rights for stationary   |          | ٠    | ٠   |
| and mobile probe groups  |          | •    | •   |
| Search function for tours  |          | •    | •   |
| Configuration of print text  |          | •    | ٠   |
| Diagrams / tables with identification of start and stop of the sta | our      | •    | ٠   |
| 21 CFR Part 11 compliant (validatable)   |          |      | ٠   |
| Electronic signature   |          |      | ٠   |
| Audit trail  |          |      | ٠   |
| Allocation of access rights on 3 user levels   |          |      | ٠   |

### **Overview of application areas Saveris software**

|                                 | SBE | PROF | CFR |
|---------------------------------|-----|------|-----|
| Stationary operation            | •   | •    | •   |
| Mobile operation                |     | •    | •   |
| Stationary and mobile operation |     | •    | •   |

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### Software versions

SBE software, incl. USB connecting cable base-PC Part no. 0572 0180

PROF software, incl. USB connecting cable base-PC Part no. 0572 0181

CFR software, incl. Ethernet connection cable base to PC Part no. 0572 0182

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# testo Saveris<sup>™</sup> 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 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<br>(total max. 18,000,000 values)  |
|--|--|
| Dimensions                               | 225 x 150 x 49 mm  |
| Weight                                   | Approx. 1510 g   |
| Protection class                         | IP42   |
| Material/Housing                         | Diecast zinc / plastic   |
| Radio frequency                          | 868 MHz  |
| Power supply (absolu-<br>tely 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 emer-<br>gency SMS if power supply fails)   |
| Oper. temp.                              | -10 to +50 °C  |
| Storage temp.                            | -40 to +60 °C  |
| Display                                  | graphical display, 4 control keys  |
| Interfaces                               | USB, radio, Ethernet   |
| Connectable radio probe                  | max. 15 probes can be directly connected via radio<br>interface, max. 150 total via radio / Router / Conver-<br>ter / Ethernet / Extender, 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<br>not valid for Japan and South Korea   |
| Set up                                   | Table base and wall bracket included   |
| Firmware version                         | 2.X  |
| *Wearing part                            | 1  |



### **Ordering data**

|   | Saveris Base, radio frequency |  |
|---|-------------------------------|--|
|   | 868 MHZ                       |  |
| 2 |                               |  |
| 5 | Part no.                      |  |
|   | 0572 0220                     |  |

Saveris base, radio frequency 868 MHz, GSM module integra-ted (for SMS alarm)

Part no. 0572 0221

No mains units or aerials 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, CN, NOR) Country list at www.testo.com/saveris



# testo Saveris™ Cockpit Unit

The Saveris Cockpit Unit displays all measurement values to the driver without interruption during transport. If limit values are violated, the driver is immediately warned. Alternatively, the complete data recording can be printed out at the handover site of the goods using an infrared printer on the Cockpit Unit.

| Display for showing alarms and system data  |
|---|
|   |
| Large data memory                           |
| Alarms via LED                              |
| Printout of readings using infrared printer |
| Emergency battery integrated                |
| Up to 8 probes can be connected             |
|   |

Wireless, USB and infrared interfaces

# Saveris Transport Values 1 Probe 1 14:44 - OC T Letter Esc Enter

### **Technical data**

| Memory                                   | max. 20,000 measurement values   |
|--|--|
| Dimensions                               | Approx. 150 x 90 x 40 mm   |
| Weight                                   | Approx. 210 g  |
| Protection class                         | IP30   |
| Material/Housing                         | Plastic  |
| Radio frequency                          | 868 MHz  |
| Power supply (absolu-<br>tely necessary) | Mini-USB cable incl. adapter 12/24 V DC                                |
| Akku*                                    | NiMH rechargeable battery (for securing data in case of power failure) |
| Oper. temp.                              | -30 to +65 °C  |
| Storage temp.                            | -40 to +85 °C  |
| Display                                  | graphical display, 4 control keys                                      |
| Interfaces                               | Wireless, USB, infrared  |
| Connectable radio probe                  | up to 2 zones with 4 wireless probes each, max.<br>32 channels         |
| Attachment                               | Sucker pad with telescope function                                     |
| *\^/                                     |  |

\*Wearing part

Briesestraße 59

### **Ordering data**

868 MHz

| Saveris Cockpit Unit incl.<br>mini-USB-cable and adapter<br>12/24 V DC |
|--|
| Part no.<br>0572 0222  |

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# testo Saveris™ components: Router, Converter and Extender

The radio link can be improved or lengthened in poor structural conditions by using a router. Several routers can of course be used in the testo Saveris system. At the same time, the serial switching of up to 3 routers V 2.0 offers highest flexibility in the wireless range.

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.

By connecting an Extender, the wireless signal of a transport probe is converted into an Ethernet signal. The data transfer from probe to Extender takes place automatically when sufficient wireless connection is present.

|  | ( m   | A M                            | N  | M.   |  | <i>m</i>  | <i>m</i>  |
|--|---|--------------------------------|--|--|--|---|---|
|  | Radio   | Rac                            | dio  | Radio  | hernet                                 | Radio<br>Etherne  | t Radio<br>Ethernet   |
|  | Saveris router V 1.0  | Saveris Rou                    | ter V 2.0  | Saveris converte   | r V 1.0                                | Saveris Converter V 2   | 0 Saveris Extender  |
| Application  | <ul> <li>for Saveris Base Firm-<br/>ware Version V 1.X</li> </ul> | • for Saveris E<br>Firmware Ve | Base<br>Prsion V 2.X   | <ul> <li>v for Saveris Base</li> <li>Firmware Version V 1.X</li> <li>only for wireless probes</li> <li>Firmware Version 1.X</li> </ul> |  | <ul> <li>for all Saveris Base<br/>Firmware versions</li> <li>only for wireless probe<br/>with Firmware Version<br/>2.X</li> </ul> | for Saveris Base<br>Firmware Version V 2.X s  |
| Dimensions   |   |                                |  | Approx. 85 x 100   | x 38 mn                                | n   |   |
| Weight   | Appro   | ox. 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 < 0.5 W |   |                                | plug-in/screw terminals,PoE,                                     |  |  |   |   |
| Oper. temp.  |   |                                |  | -20 to +50 °C  |  |   |   |
| Storage temp.  |   |                                |  | -40 to +60 °C  |  |   |   |
| Material/Housing   |   |                                |  | Plastic  |  |   |   |
| Protection class   |   |                                |  | IP54   |  |   |   |
| Interfaces   | Rac   | lio                            |  | Radio, Ethernet  |  |   |   |
| Connectable radio probe  | max   | . 5                            |  | max. 15 max. 100   |  |   |   |
| Router cascading   | no  | yes                            |  | · · · ·  |  |   | -   |
| Wall bracket   |   |                                |  | included   |  |   |   |
| Versions   |   |                                |  |  |  |   |   |
| Saveris Router V 1.0<br>MHz, radio transmis<br>medium  | 0, 868 Saveris Router<br>sion MHz, radio trai<br>medium           | V 2.0, 868<br>nsmission        | V 2.0, 868<br>smission 868 MHz, c<br>radio transi<br>to Ethernet |  | Saveria<br>868 M<br>radio t<br>to Ethe | s Converter V 2.0,<br>Hz, converts the<br>ransmission medium<br>ernet   | Saveris Extender 868 MHz,<br>converts the radio trans-<br>mission medium to Ether-<br>net |
| <sup>∞</sup> Part no.<br>0572 0119   | Part no.<br>0572 0219   |                                | Part no.<br>0572 0118  |  | Part no<br>0572 0                      | o.<br>0218  | Part no.<br>0572 0217   |

No mains units are contained in this ordering data.





# testo Saveris™: Accessories

| 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<br>Energizer L91 Photo lithium)   | 0515 0572                       |
| Li-ion rechargeable battery for Saveris Base, Ethernet probe and Saveris analog coupler U1E   | 0515 0021                       |
| Mains unit international 100-240 V AC / 6,3V DC for mains operation or battery charging in instrument   | 0554 1096                       |
| Power supply (top-hat rail mounting) 90 to 264 VAC/24VDC (2.5A)   | 0554 1749                       |
| Power supply (desktop) 110 to 240 VAC/ 24VDC (350 mA)   | 0554 1748                       |
| Other features  | Part no.                        |
| 1 Magnetic foot aerial (dualband) with 3 m cable, for base with GSM module (not suitable for USA, Canada, Chile, Argentina, Mexico)   | 0554 0524                       |
| Magnetic foot aerial (quadband) for base with GSM module  | 0554 0525                       |
| 2 Alarm module (visual + acoustic), can be connected to base alarm<br>relay, Ø 70 x 164 mm, 24 V AC/DC / 320 mA, perm. light: red, perm.<br>tone: buzzer approx. 2.4 kHz (Mains unit 0554 1749 required)  | 0572 9999<br>ID-Nr. 0699 6111/1 |
| Saveris protective housing for protection from high-pressure<br>cleaning and impact, IP 69 K suitable for wireless probes T1 / T1D /<br>T2 / T2D / Pt / PtD / H4D   | 0572 0200                       |
| 4 Testo fast printer with wireless infrared interface, 1 roll of thermal<br>paper and 4 AAA batteries, for printout of measurement values from<br>Saveris Cockpit Unit, operating temperature 0 to +50 °C | 0554 0549                       |
| Progamming adapter (from mini-DIN to USB) for Base, Ethernet probe,<br>Converter and Extender for the configuration of IP addresses   | 0440 6723                       |

| Software  | 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 base to PC  | 0572 0182 |
| Saveris adjustment software incl. connection cable for wireless and Ethernet probes   | 0572 0183 |
| Calibration Certificates  | Part no.  |
| ISO calibration certificate/temperature; Temperature probes; calibra-<br>tion points -8 °C; 0 °C; +40 °C per channel/instrument (suitable for<br>Saveris T1/T2)         | 0520 0171 |
| ISO calibration certificate/temperature; Temperature probes; calibration points<br>-18 °C; 0 °C; +60 °C; per channel/instrument (not suitable for Saveris T1/T2)        | 0520 0151 |
| DAkkS calibration certificate/Temperature; Temperature probes; calibra-<br>tion points -20 °C; 0 °C; +60 °C; per channel/instrument (not suitable for<br>Saveris T1/T2) | 0520 0261 |
| ISO calibration certificate humidity ; Humidity probe, calibration points 11.3 %RH and 75.3 %RH at +25 °C/+77 °F; per channel/instrument                                | 0520 0076 |
| DAkkS calibration certificate humidity; Humidity probe, calibration points<br>11.3 %RH and 75.3 %RH at +25 °C; per channel/instrument                                   | 0520 0246 |
|   |           |



Magnetic foot aerial (dualband)



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



Saveris protective housing



Testo fast printer



# 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.

|             |                                  | °C / °F   |   |  |   |  |  |  |  |
|-------------|----------------------------------|---|---|--|---|--|--|--|--|
|             |                                  | NTC   | NTO   |  | TO  | Pt   |  |  |  |
|             |                                  |   |   |  |   |  |  |  |  |
|             |                                  | internal  | internal  | F  | external  | external<br>to<br>fi3203.  |  |  |  |
|             | Radio                            | Saveris T1  | Saveris T2  | Saveris T3   |   | Saveris Pt   |  |  |  |
|             |                                  | Radio probe with internal<br>NTC  | Radio probe with external<br>probe connection and internal<br>NTC, door contact               | 2-channel radio<br>external TC pro<br>(Choice of TC c    | probe with 2<br>be connections<br>haracteristics) | Radio probe with 1 external Pt100 probe connection   |  |  |  |
| nsor        | Probe type                       | NTC   | NTC   | -  | -   | _  |  |  |  |
| Sel         | Meas. range                      | -35 to +50 °C   | -35 to +50 °C   | -  | _   | -  |  |  |  |
| Iternal     | Accuracy                         | ±0.4 °C (-25 to +50 °C)<br>±0.8 °C (remaining range)  | ±0.4 °C (-25 to +50 °C)<br>±0.8 °C (remaining range)  | -  | -   | _  |  |  |  |
| -           | Resolution                       | 0.1 °C  | 0.1 °C  | -  | -   | -  |  |  |  |
|             | Probe type                       | _   | NTC   | TC type K  | TC type J   | Pt100  |  |  |  |
|             | Meas. range                      |   | -50 to +150 °C  | -195 to +1350 °C   | -100 to +750 °C                                   | -200 to +600 °C  |  |  |  |
| be          | (Instrument)                     | -   |   | TC type T  | TC type S   |  |  |  |  |
| External pr | Accuracy<br>(Instrument)         | _   | ±0.2 °C (-25 to +70 °C)<br>±0.4 °C (remaining range)  | -200 to +400 °C 0 to +1760 °C<br>±0.5 °C or 0.5% of mv   |   | at +25 °C<br>±0.1 °C (0 to +60 °C)<br>±0.2 °C (-100 to +200 °C)<br>±0.5 °C (remaining range) |  |  |  |
|             | Resolution (Instrument)          | _   | 0.1 °C  | 0.1 °C / TC type S 1 °C                                  |   | 0.01 °C  |  |  |  |
| Connection  |                                  | _   | NTC via mini-DIN socket,<br>door contact connection<br>cable included in delivery<br>(1.80 m) | 2 TCs via TC socket, max.<br>difference in potential 2 V |   | 1 Pt100 via mini-DIN<br>socket   |  |  |  |
| Dim         | ensions (housing):               |   | 80 x 85   | x 38 mm  |   |  |  |  |  |
| We          | ight                             | Approx. 240 g   |   |  |   |  |  |  |  |
| Bat<br>(Typ | tery life<br>be: 4 AA batteries) | Battery life at +25 °C, 3 years; for freezer applications, 3 years with L91 Photo lithium Energizer batteries |   |  |   |  |  |  |  |
| Ma          | terial/Housing                   |   | PI  | astic  |   |  |  |  |  |
| Pro         | tection class                    |   | IP68  |  | IP54  | IP68   |  |  |  |
| Ra          | dio frequency                    |   | 868   | 3 MHz  |   |  |  |  |  |
| Me          | asuring rate                     |   | Standard 15 min, 1  | min to 24 h can b  | be set  |  |  |  |  |
| Me          | mory                             |   | 6,000 measuremer  | nt values per cha  | nnel  |  |  |  |  |
| Cor         | tormity with standards           | DIN   | EN 12830  |  |   | -  |  |  |  |
| Op          | er. temp.                        | -35   | to +50 °C   |  | -20 to  | 0 +50 °C   |  |  |  |
| Sto         | rage temp.                       |   | -40 to +55 °C   | (Incl. batteries)  | - 1-  |  |  |  |  |
|             | play (optional)                  |   | LCD, 2 lines; 7-se  | gment with symb  |   |  |  |  |  |
| ira         | II brooket                       |   | approx. Sou in without obstru   | udod   | ICY OI OOO IVIHZ                                  |  |  |  |  |
| 844         |                                  |   | Inc   |  |   |  |  |  |  |

| Versions |                    |                         |                         |                         |                         |
|----------|--------------------|-------------------------|-------------------------|-------------------------|-------------------------|
|          | Version            | Saveris T1              | Saveris T2              | Saveris T3              | Saveris Pt              |
| ЛНz      | without<br>display | Part no.<br>0572 1210 * | Part no.<br>0572 1211 * | Part no.<br>0572 9212 * | Part no.<br>0572 7211 * |
| ≥<br>∞   | Version with       | Saveris T1 D            | Saveris T2 D            | Saveris T3 D            | Saveris Pt D            |
| 86       | display            | Part no.<br>0572 1220 * | Part no.<br>0572 1221 * | Part no.<br>0572 9222 * | Part no.<br>0572 7221 * |

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The alkali manganese batteries AA (0515 0414) are included in these ordering data (analog coupler excluded). Saveris probes are delivered with a calibration protocol of the factory adjustment data. Calibration certificates must be ordered separately.

\*The Saveris Converter V 2.0 (order no. 0572 0218) is required for integration of Saveris wireless probes into systems with Base Firmware V 1.X. For more information please contact our customer hotline or your Testo partner.



°C / °F and %RH mA and V %RH NTC %RH NTC %RH NTC V mA external internal external interna YB3 Radio Saveris H2D Saveris H3 Saveris H4D Saveris U1 Wirelss probe with current/ Wireless probe with 1 external Wireless humidity probe Humidity radio probe humidity probe connection voltage output NTC Probe type Humidity sen-1 channel: current/voltage sor input 2-wire: 4 to 20 mA, 4-wire: 0/4 -20 to +50 0 to 100 Meas. range %RH<sup>1)</sup> to 20 mA, 0 to 1/5/10 V, load: °C max. 160  $\Omega$  at 24 V DC ±0.5 °C ±3 %RH at +25 °C ±0,03 %RH/K ±1 digit Accuracy  $\begin{array}{l} Current \pm 0.03 \mbox{ mA} / 0.75 \mbox{ } \mu A \\ Voltage 0 \mbox{ to } 1 \mbox{ } \pm 1.5 \mbox{ mV} / 39 \mbox{ } \mu V \\ Voltage 0 \mbox{ to } 5 \mbox{ } \pm 7.5 \mbox{ mV} / 0.17 \mbox{ mV} \\ Voltage 0 \mbox{ to } 5 \mbox{ } \pm 15 \mbox{ mV} / 0.34 \mbox{ mV} \\ \pm 0.02\% \mbox{ of } .m. \slash / K \mbox{ deviating from nominal temperature } 22 \mbox{ °C} \end{array}$ 0.1 °C 0.1 °C% / 0.1 °C td Resolution Probe type NTC Humidity sensor NTC Humidity sensor 0 to +100 %RH 1 -20 to +70 °C External probe Meas. range (Instrument) -20 to +50 °C 0 to +100 %RH 1) to 90 %RH: ±2 %RH at +25 °C > 90 %RH: ±3 %RH at +25 °C ±0,03 %RH/K ±1 digit ±0.5 °C ±0.2 °C Accuracy see probes (Instrument) 0.1% / 0.1 °C td Resolution (Instrument) 0.1 °C 0.1% / 0.1 °C td 0.1 °C Connection non-exchangeable 1 x external humidity probe 2 or 4-wire current/ mini DIN socket stump probe voltage output Service interface mini DIN for adjustment 85 x 100 x 38 mm 80 x 85 x 38 mm Dimensions (housing): Approx. 85 x 100 x 38 mm Approx. 245 g Approx. 240 g Weight Approx. 256 g Battery life Battery life at +25 °C, 3 years; for freezer applications, 3 years with L91 Photo lithium Energizer Supply: Mains unit 6.3 V DC, (Type: 4 AA batteries) batteries 20 to 30 V DC max. 25 V AC Material/Housing Plastic Protection class IP54 IP42 IP54 868 MHz Radio frequency Standard 15 min, 1 min to 24 h can be set Measuring rate 6,000 measurement values per channel Memory Oper. temp. -20 to +50 °C -40 to +55 °C (incl. batteries) Storage temp. Display (optional) LCD, 2 lines; 7-segment with symbols (no display) Transmission distance approx. 300 m without obstruction at a frequency of 868 MHz Wall bracket included

| versions |                         |                         |                         |                         |                         |
|----------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
|          | Version without         |                         | Saveris H3              |                         | Saveris U1              |
| ЛНZ      | display                 |                         | Part no.<br>0572 6210 * |                         | Part no.<br>0572 3210 * |
| 8        | Version with<br>display | Saveris H2D             | Saveris H3 D            | Saveris H4D             |                         |
| 868      |                         | Part no.<br>0572 6222 * | Part no.<br>0572 6220 * | Part no.<br>0572 6224 * |                         |

The alkali manganese batteries AA (0515 0414) are included in these ordering data (analog coupler excluded). Saveris probes are delivered with a calibration protocol of the factory adjustment data. Calibration certificates must be ordered separately.

1) Not for condensing atmosphere. For continuous applications in high humidity (>80 %RH at ≤30 °C for >12 h, >60 %RH at >30 °C for >12h), please contact us via www.testo.com.

\*The Saveris Converter V 2.0 (order no. 0572 0218) is required for integration of Saveris wireless probes into systems with Base Firmware V 1.X . For more information please contact our customer hotline or your Testo partner.

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# 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°   |   |                            |  |  |  |  |
|----------|--------------------------|--|---|----------------------------|--|--|--|--|
|          |                          | NTC  | TC                                      |                            | Pt   |  |  |  |
|          |                          |  | 10                                      |                            | 100  |  |  |  |
|          |                          | external   | external<br>12 YD37<br>6597<br>6597     |                            | external   |  |  |  |
|          | Inernet                  | Saveris T1E  | Saveris T4 E                            |                            | Saveris Pt E   |  |  |  |
|          |                          | Ethernet probe with 1 external probe connection NTC                            | 4-channel Ethernet<br>TC probe connecti | probe with 4 external ons  | Ethernet probe with external Pt100 probe connection  |  |  |  |
|          | Probe type               | NTC  | TC type K                               | TC type J                  | Pt100  |  |  |  |
|          | Meas. range              | -50 to +150 °C   | -195 to +1350 °C                        | -100 to +750 °C            | -200 to +600 °C  |  |  |  |
| pe       | (Instrument)             |  | TC type T                               | TC type S                  |  |  |  |  |
| pro      |                          |  | -200 to +400 °C                         | 0 to +1760 °C              |  |  |  |  |
| External | Accuracy<br>(Instrument) | ±0.2 °C (-25 to +70 °C)<br>±0.4 °C (remaining range)                           | ±0.5 °C or 0.5% of mv                   |                            | at +25 °C<br>±0.1 °C (0 to +60 °C)<br>±0.2 °C (-100 to +200 °C)<br>±0.5 °C (remaining range) |  |  |  |
|          | Resolution (Instrument)  | 0.1 °C   | 0.1 °C / TC type S                      | 1 °C                       | 0.01 °C  |  |  |  |
| Co       | nnection                 | 1 x NTC via mini DIN socket  | 4 TCs via TC socke<br>tential 50 V      | et, max. difference in po- | - 1 Pt100 via mini-DIN socket  |  |  |  |
|          |                          | Mini-DIN service interface for adjustment is accessible externally             |   |                            |  |  |  |  |
| Din      | nensions (housing):      | Approx. 85 x 100 x 38 mm   |   |                            |  |  |  |  |
| We       | ight                     | Approx. 220 g  |   |                            |  |  |  |  |
| Po       | ver                      | 6.3 V DC mains unit; alternatively via 24 V AC/DC plug-in/screw terminals, PoE |   |                            |  |  |  |  |
| Bu       | fer battery              | Li-ion (wearing part)  |   |                            |  |  |  |  |
| Ma       | terial/Housing           |  | Plas                                    | tic                        |  |  |  |  |
| Pro      | tection class            | IP54   |   |                            |  |  |  |  |
| Me       | asuring rate             | 2 s to 24 h  |   |                            |  |  |  |  |
| Me       | mory                     | 6,000 measurement values per channel   |   |                            |  |  |  |  |
| Ор       | er. temp.                |  | -20 to -                                | -60 °C                     |  |  |  |  |
| Sto      | rage temp.               |  | -40 to -                                | -60 °C                     |  |  |  |  |
| Po       | wer consumption          |  | PoE Class 0 (t                          | ypical ≤ 3 W)              |  |  |  |  |
| Dis      | play (optional)          |  | LCD, 2 lines; 7-segr                    | ment with symbols          |  |  |  |  |
| Wa       | II bracket               |  | inclu                                   | ded                        |  |  |  |  |
| Ve       | rsions                   | Saveris T1E with display<br>Part no.   | Saveris T4 E with<br>Part no.           | n display                  | Saveris Pt E with display<br>Part no.  |  |  |  |
|          |                          | 0572 1191  | 0572 9194                               |                            | 0572 7191  |  |  |  |

Saveris probes are delivered with a calibration protocol of the factory adjustment data. Calibration certificates must be ordered separately. Mains units are not included in delivery.



|                 |  |  |   | °C / °F and %RH                                   |   |                                      | mA and V                                |  |  |
|-----------------|--|--|---|---|---|--------------------------------------|---|--|--|
|                 |  | %RH NTC  |   | %RH NTC   |   | %RH NTC                              |   | mA V   |  |
| E               | thernet  | external   | - 1000<br>- 1000<br>- 1000  | external  | 5577  | external                             | 553°<br>553°<br>69.                     | Internal   |  |
|                 |  | Saveris H1 E   | 1   | Saveris H2  | E   | Saveris H4                           | E                                       | Saveris U1E  |  |
|                 |  | Humidity Ether<br>probe 1%                                 | rnet  | Humidity Eth<br>probe 2 %                         | nernet  | Ethernet pro<br>humidity pro         | be with external<br>be connection       | Ethernet probe with current/voltage  |  |
|                 | Probe type   |  |   |   | _   |                                      | _                                       | 1 channel: current/voltage   |  |
| ensor           | Meas. range  | _  |   |   | _   |                                      | _                                       | 2-wire: 4 to 20 mA, 4-wire: 0/4 to 20 mA, 0 to 1/5/10V, load: max. 160 $\Omega$ at 24 V DC   |  |
| Internal se     | Accuracy   | _  |   |   | _   | _                                    |   | Current $\pm0,03$ mA / 0.75 $\mu A$ Voltage 0 to 1 V $\pm1.5$ mV / 39 $\mu V$ Voltage 0 to 5 V $\pm7.5$ mV / 0.17 mV Voltage 0 to 10 V $\pm15$ mV / 0.34 mV $\pm0.02\%$ of. m.v/K deviating from nominal temperature 22 °C |  |
|                 | Probe type   | NTC  | Humidity sensor   | NTC   | Humidity sensor   | NTC                                  | Humidity sensor                         | _  |  |
| be              | Meas. range  | -20 to +70 °C  | 0 to 100 %RH1)  | -20 to +70 °C                                     | 0 to 100 %RH <sup>1</sup>   | -20 to +70 °C                        | 0 to 100 %RH <sup>1)</sup>              | _  |  |
| External prot   | Accuracy<br>(Instrument)   | ±0.2 °C (0 to +30 °C)<br>±0.5 °C (remaining<br>range)      | to 90 %RH: ±1<br>%RH +0,7 % of mv<br>at +25 °C<br>> 90 %RH: ±1,4<br>%RH +0,7 % of mv<br>±0,03 %RH/K<br>±1 digit | ±0.5 °C   | to 90 %RH: ±2<br>%RH at +25 °C<br>> 90 %RH: ±3<br>%RH at +25 °C<br>±0,03 %RH/K<br>± 1 digit | ±0.2 °C                              | see external<br>probes                  | -  |  |
|                 | Resolution (Instrument)  | 0.1 °C   | 0.1% / 0.1 °C td  | 0.1 °C  | 0.1% / 0.1 °C td  | 0.1 °C                               | 0.1% / 0.1 °C td                        | -  |  |
| Co              | nnection   |  |   | - 1 x external Ethernet<br>dity probe mini DIN so |   | Ethernet humi-<br>nini DIN socket    | 1 x 2- or 4-wire current/voltage        |  |  |
| D.              |  |  |   | IVIII II-   |   |                                      |   |  |  |
| Dim             | iensions (housing):  |  | A   | 1000 m  | Approx.   | 85 X 100 X 38 r                      | nm                                      | Approv. 040 a  |  |
| VVe             | ign  |  | App   | rox. 230 g  | , alternativaly v   |                                      | 0x. 254 y                               | Approx. 240 g  |  |
| г:0'<br>D       | for botton   |  | 0.3 V   |   |   | (wearing part)                       | plag-in/screw term                      | inais, FUL   |  |
| Бu              | her ballery  |  |   |   | LI-IOII   |                                      |   |  |  |
| IVIa            | terial/Housing   | Plastic  |   |   |   |                                      |   |  |  |
| Pro             |  | IP54   |   |   |   |                                      |   |  |  |
| Ma              |  |  |   |   | 2   |                                      | x abannal                               |  |  |
| ivie            |  |  |   |   | 0,000 measurer  |                                      | channel                                 |  |  |
| Op              | er. temp.  |  |   |   | -20   |                                      |   |  |  |
| Sto             | orage temp.  |  |   |   | -40   | 0 to +60 °C                          | 140                                     |  |  |
| Po              | wer consumption  |  |   |   | PoE Class   | $0 \text{ (typical } \leq 3)$        | VV)                                     |  |  |
| Dis             | play (optional)  |  |   | LC  | D, 2 lines; 7-seg   | ment with sym                        | ibols                                   | no display   |  |
| Wa              | III bracket  | -  |   |   |   | Included                             |   |  |  |
| Ve              | rsions   | <b>Saveris H1 E</b><br>Part no.<br>0572 6191               | with display  | <b>Saveris H2</b><br>Part no.<br>0572 6192        | E with display  | Saveris H48<br>Part no.<br>0572 6194 | e with display                          | Saveris U1E no display<br>Part no.<br>0572 3190  |  |
| Sa<br>are<br>at | veris probes are deli<br>not included in deli<br>>30 °C for >12h), ple | vered with a cali<br>very. 1) Not for c<br>ease contact us | bration protoco<br>condensing atm<br>via www.testo.c  | l of the factor<br>osphere. For c                 | y adjustment da<br>continuous appl  | ta. Calibration<br>ications in high  | certificates must b<br>humidity (>80 %R | e ordered separately. Mains units<br>H at ≤30 °C for >12 h, >60 %RH  |  |

|             | // T  |           |
|-------------|---|-----------|
| Sintered ca | aps for Saveris H1 E, H2 E and H2 D 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 |
|             | Stainless steel sintered filter, pore size 100 $\mu$ m, sensor 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 12 mm  | 0554 0757 |
|             | Sintered PTFE filter, Ø 12 mm, for corrosive media, High humidity range (long-term measurements), high flow velocities.   | 0554 0756 |
|             | Testo saline pots for testing and humidity calibration of humidity sensors, 11.3 %RH and 75.3 %RH, incl. adapter for humidity probes, fast testing or calibration of humidity probe         | 0554 0660 |



### testo Saveris™ accessories: External temperature and humidity probes

| Pt<br>100 Plug-in probes   | Illustration                      |                 | Measuring<br>range | Accuracy   | t <sub>99</sub> | Part no.  |  |
|--|-----------------------------------|-----------------|--------------------|--|-----------------|-----------|--|
| Robust, Pt100 stainless steel food<br>probe (IP65)   | 0 4 mm<br>Connection: Fixed cable | 15 mm<br>Ø 3 mm | -50 to +400 °C     | Class A (-50 to<br>+300 °C), Class<br>B (remaining<br>range) | 10 s            | 0609 2272 |  |
| Penetration probe Pt100 with rib-<br>bon cable, cable length 2 m, IP   | 60 mm                             | 30 mm           | -50 to +180 °C     | Class A  | 10 s            | 0572 7001 |  |
| 54   | Ø 5 mm                            | Ø 3.6 mm        |                    |  |                 |           |  |
| Connection cable for unlimited Pt100 stationary probes (4-wire technology), Cable length: 3 m possible max. cable length: 20 m |                                   |                 |                    |  |                 |           |  |

| TC Plug-in probes  | Illustration  | Measuring<br>range  | Accuracy | t <sub>99</sub> | Part no.  |
|--|---|---------------------|----------|-----------------|-----------|
| Stationary probe with stainless<br>steel sleeve, TC Type K   | 40 mm<br>Ø6 mm<br>Connection: Fixed cable 1.9 m   | -50 to +205 °C      | Class 2* | 20 s            | 0628 7533 |
| Penetration probe TC with ribbon<br>cable, Type K, cable length 2 m, IP 54   | 60 mm 30 mm 0 3.6 mm  | -40 to + 220 °C     | Class 1  | 7 s             | 0572 9001 |
| Magnetic probe, adhesive force ap-<br>prox. 20 N, with magnets, for measu-<br>rements on metal surfaces, TC Type I                           | 35 mm<br>Ø 20 mm<br>Fixed cable   | -50 to +170 °C      | Class 2* | 150<br>s        | 0602 4792 |
| Magnetic probe, adhesive force ap-<br>prox. 10 N, with magnets, for higher<br>temp., for measurements on metal<br>surfaces, TC Type K        | 75 mm<br>Ø 21 mm<br>Connection: Fixed cable 1.6 m   | -50 to +400 °C      | Class 2* |                 | 0602 4892 |
| Pipe wrap probe for pipe diameter 5<br>to 65 mm, with exchangeable measu-<br>ring head. Meas. range short-term to<br>+280°C, TC Type K       | Connection: Fixed cable 1.2 m   | -60 to +130 °C      | Class 2* | 5 s             | 0602 4592 |
| Pipe wrap probe with velcro strip; for<br>temperature measurement on pipes<br>with diameter up to max. 120 mm;<br>Tmax. +120 °C; TC Type K   | 395 mm<br>مسلم المعادمة المعادمة<br>Connection: Fixed cable 1.5 m | -50 to +120 °C      | Class 1* | 90 s            | 0628 0020 |
| Thermocouple with TC adapter,<br>flexible, 800mm long, fibre glass,<br>TC Type K   | 800 mm<br>Ø 1.5 mm  | -50 to +400 °C      | Class 2* | 5 s             | 0602 0644 |
| Thermocouple with TC adapter,<br>flexible, 1500mm long, fibre glass,<br>TC Type K  | 1500 mm<br>Ø 1.5 mm   | -50 to +400 °C      | Class 2* | 5 s             | 0602 0645 |
| Thermocouple with TC adapter,<br>flexible, 1500mm long, PTFE, TC<br>Type K   | 1500 mm<br>Ø 1.5 mm   | -50 to +250 °C      | Class 2* | 5 s             | 0602 0646 |
| Immersion tip, flexible, TC Type K   | 500 mm<br>Ø 1.5 mm  | -200 to +1000<br>°C | Class 1* | 5 s             | 0602 5792 |
| Immersion measurement tip, flexible,<br>for measurements in air/exhaust<br>gases (not suitable for measure-<br>ments in smelters), TC Type K | 1000 mm<br>Ø 3 mm   | -200 to<br>+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.

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\*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).

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| ΝΤС  | Plug-in probes   | Illustration   | Measuring<br>range | Accuracy   | t <sub>99</sub> | Part no.   |  |
|--|--|--|--------------------|--|-----------------|------------|--|
| Stub   | probe, IP 54   | 35 mm<br>Ø 3 mm  | -20 to +70 °C      | ±0.2 °C (-20 to +40 °C)<br>±0.4 °C (+40.1 to +70 °C)                                       | 15 s            | 0628 7510  |  |
| ♦ Stat<br>slee                               | ionary probe with aluminium<br>ve, IP 65                                 | 40 mm  | -30 to +90 °C      | ±0.2 °C (0 to +70 °C)<br>±0.5 °C (remaining range)   | 190<br>s        | 0628 7503* |  |
| <ul> <li>Acci<br/>cabl</li> </ul>            | urate imm./pen. probe, 6m<br>e, IP 67                                    | 40 mm<br>Ø 3 mm<br>Connection: Fixed cable; Cable/length: 6 m              | -35 to +80 °C      | ±0.2 °C (-25 to +74.9 °C)<br>±0.4 °C (remaining range)                                     | 5 s             | 0610 1725* |  |
| <ul> <li>According</li> <li>prob</li> </ul>  | urate immersion/penetration<br>be, cable: 1.5 m long, IP 67              | 40 mm<br>Ø 3 mm<br>Connection: Fixed cable; Cable/length: 1.5 m            | -35 to +80 °C      | ±0.2 °C (-25 to +74.9 °C)<br>±0.4 °C (remaining range)                                     | 5 s             | 0628 0006* |  |
| <ul> <li>Pene<br/>bon</li> <li>54</li> </ul> | etration probe NTC with rib-<br>cable, cable length 2 m, IP              | 60 mm 30 mm 0 3.6 mm   | -40 to +125 °C     | ±0.5 % of mv (+100 to +125<br>°C)<br>±0.2 °C (-25 to +80 °C)<br>±0.4 °C (remaining range)  | 8 s             | 0572 1001  |  |
| Wall<br>e.g.<br>mate                         | surface temperature probe,<br>to prove damage in building<br>erial       | Connection: Fixed cable; Cable/length: 3 m                                 | -50 to +80 °C      | ±0.2 °C (0 to +70 °C)  | 20 s            | 0628 7507  |  |
| ♦ Stai<br>(IP6)                              | nless steel NTC food probe<br>5) with PUR cable                          | 125 mm<br>0 4 mm<br>0 3 mm<br>Connection: Fixed cable; Cable/length: 1.6 m | -50 to +150 °C2    | ±0.5% of mv (+100 to +150<br>°C)<br>±0.2 °C (-25 to +74.9 °C)<br>±0.4 °C (remaining range) | 8 s             | 0613 2211* |  |
| Pipe<br>pipe<br>Tma                          | e wrap probe with Velcro for<br>diameter to max. 75 mm,<br>x. +75°C, NTC | 300 mm   | -50 to +70 °C      | ±0.2 °C (-25 to +70 °C)<br>±0.4 °C (-50 to -25.1 °C)                                       |                 | 0613 4611  |  |

The standard temperature probes from the Testo range can be individually tailored to your application. For more information please contact your Testo partner.

| %RH Plug-in probes  | Illustration | Measuring<br>range            | Accuracy  | Part no.  |  |
|---|--------------|-------------------------------|---|-----------|--|
| <ul> <li>Humidity / Temperature Probe<br/>12mm</li> </ul> | • Ø 12 mm    | -20 to +70 °C<br>0 to 100 %RH | ±0,3 °C<br>±2 %RH at +25 °C (2 to 98 %RH)<br>±0,03 %RH/K<br>± 1 digit | 0572 6172 |  |
| Humidity / Temperature Probe 4 mm                         | Ø 4 mm       | 0 to +40 °C<br>0 to 100 %RH   | ±0,3 °C<br>±2 %RH at +25 °C (2 to 98 %RH)<br>±0,08 %RH/K<br>± 1 digit | 0572 6174 |  |

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

Tel.: 03303 / 504066 Fax: 03303 / 504068



## testo Saveris™ set

# Adjustment

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.



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.



Set: 868 MHz, consisting of base 0572 0220, 3 NTC radio probes without display 0572 1210, mains unit for base 0554 1096 and SBE software 0572 0180 incl. USB cable

### Set 868 MHz

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Part no. 0572 0210

ICS Schneider Messtechnik GmbH Briesestraße 59 D-16562 Hohen Neuendorf / OT Bergfelde Saveris adjustment software incl. connection cable for wireless and Ethernet probes

Part no. 0572 0183

Tel.: 03303 / 504066 Fax: 03303 / 504068 info@ics-schneider.de www.ics-schneider.de





# Worldwide presence

Testo is a manufacturer of measuring instruments and measuring systems with a global presence, with 31 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.

