WiFi data logger system

testo Saveris 2 – temperature and humidity monitoring re-thought

testo Saveris 2

1 48.3 %
2 15.3 ℃

48.3

°C

%RH

Data transfer by wireless LAN

All measurement data always available, anywhere, on any instrument

---

Alarms when limit values are violated

---

testo Saveris 2-T1 and -T2 DIN EN 12830 compliant
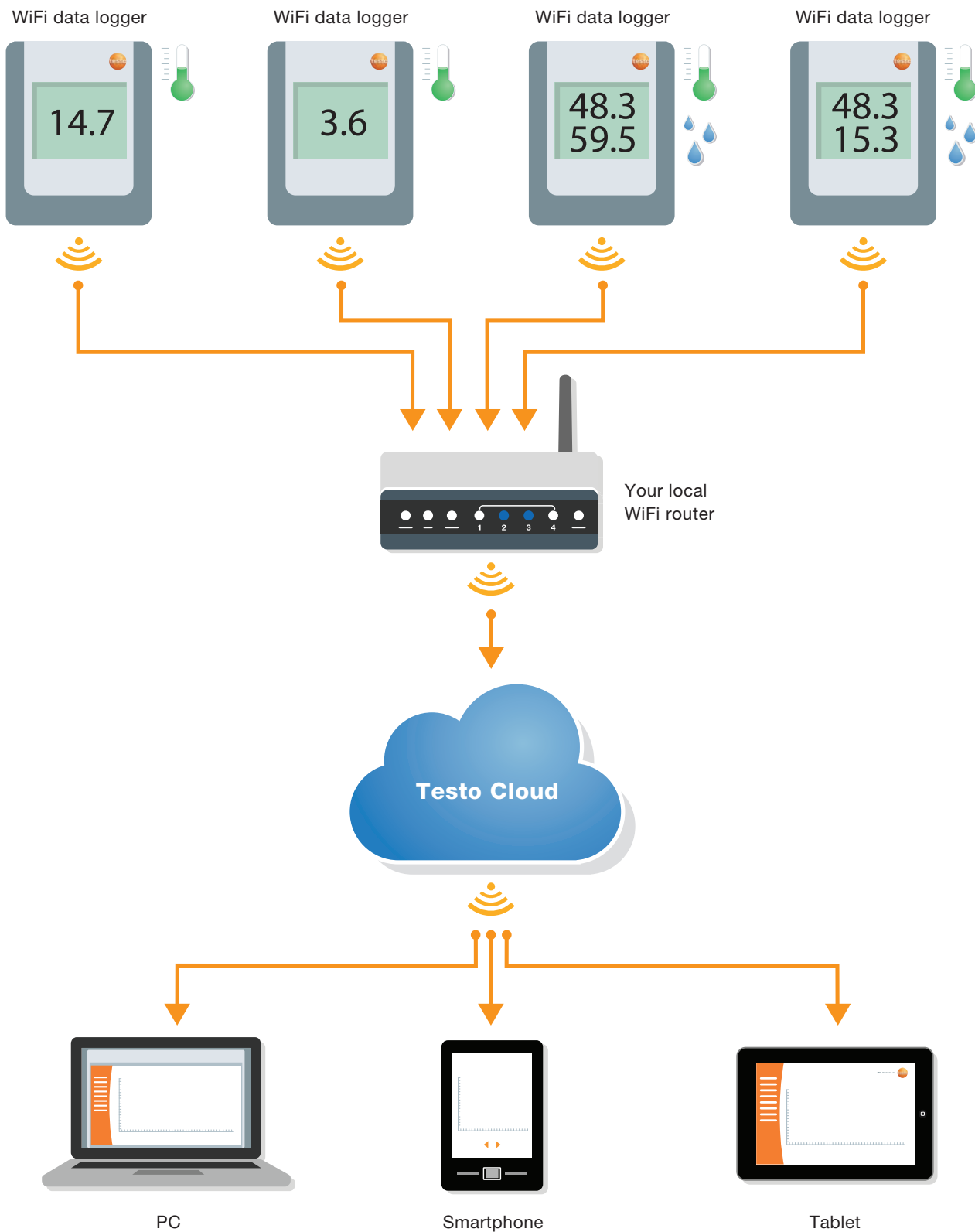

Cost-free online data store (Testo Cloud)

The WiFi data logger system testo Saveris 2 is the modern solution for the monitoring of storage and work rooms. The system consists of WiFi data loggers and an access to the Testo Cloud. It can be commissioned and configured easily and quickly without software installation via the Cloud.
The WiFi data loggers reliably record temperature and humidity at defined intervals, and transmit the measurement values directly by wireless LAN to the Testo Cloud.

The measurement values stored in the Cloud can be evaluated anywhere and any time using an internet-capable Smartphone, tablet or PC. Limit value violations are immediately reported by e-mail or optionally by SMS. The data loggers store up to 10000 measurement values per channel. The display provides information on current measurement values, limit value violations and the remaining battery life. The batteries have a lifetime of 24 months and can be exchanged by the user.

Temperature and humidity monitoring re-thought.

With the data logger system testo Saveris 2, you have climatic conditions easily under control – wherever you happen to be.

WiFi data logger	WiFi data logger	WiFi data logger	WiFi data logger
14.7	3.6	48.3 59.5	48.3 15.3

Your local
WiFi router

Testo Cloud

PC

Smartphone

Tablet

Ordering data WiFi data loggers

testo Saveris 2-T1

testo Saveris 2-T1; WiFi data logger (wireless LAN) with display and internal NTC temperature sensor, incl. USB cable, wall bracket, batteries and calibration protocol

Part no. 0572 2001

testo Saveris 2-H1

testo Saveris 2-H1; WiFi data logger (wireless LAN) with display for measuring temperature and relative humidity, capacitive internal humidity sensor, incl. USB cable, wall bracket, batteries and calibration protocol

Part no. 0572 2004

testo Saveris 2-T2

testo Saveris 2-T2; WiFi data logger (wireless LAN) with display, for measuring temperature, two connections for external NTC temperature probes or door contacts, incl. USB cable, wall bracket, batteries and calibration protocol

Part no. 0572 2002

testo Saveris 2-H2

testo Saveris 2-H2; WiFi data logger (wireless LAN) with display for measuring temperature and relative humidity, connection for one external humidity probe, incl. USB cable, wall bracket, batteries and calibration protocol

Part no. 0572 2005

testo Saveris 2-T3

testo Saveris 2-T3; WiFi data logger (wireless LAN) with display for measuring temperature, two external connections for TC temperature probes (Types K, T, J) incl. USB cable, wall bracket, batteries and calibration protocol

Part no. 0572 2003

testo Saveris 2 - set for temperature monitoring in refrigerators

testo Saveris 2-T2; WiFi data logger (wireless LAN) with display for measuring temperature, two connections for external NTC temperature probe or door contact, incl. two ribbon cable temperature probes, two temperature simulation flasks for filling with glycol, USB cable, wall bracket, batteries and calibration protocol

Part no. 0572 2103

Please note that to use the WiFi data logger system testo Saveris 2, a WiFi data logger, a registration in the Testo Cloud (www.saveris.net), and a wireless LAN-capable network are absolutely necessary.

testo Saveris 2 Cloud

Our packages

The Testo Cloud is the central operating element for setting up your testo Saveris 2 system. Here you can configure your WiFi data loggers, set limit value alarms and evaluate your measurement data. In order to have access to the Testo Cloud, you must first register at www.saveris.net.

Depending on the desired range of functions for the use of the Testo Cloud, you have a choice between the free Basic and the more extensive Advanced functionality.
In both packages, you have access to an API interface, in order to export measurement data to your systems.

Purchase by June 30. 2016 and use Advanced functions free for 1 year.

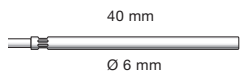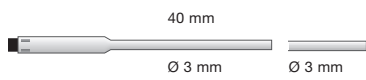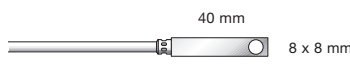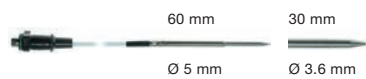|	**Basic**	**Advanced**		
Measurement rate	15 mins. (fixed)	1 min. to 24 h (flexible)		
Communication rate	flexible, however not less than 1 h	fully flexible		
Data storage	max. 3 months	max. 2 years		
Reports	Manual (.pdf/.csv)	manual (.pdf/.csv) automatic (.pdf/.csv)		
Data analysis	For one measurement channel each	For up to 10 channels simultaneously		
Number of users per account	1	10		
Number of WiFi data loggers per account	Unlimited	Unlimited		
E-mail alarms	Yes	Yes		
System notifications	• Notification of low battery • WiFi connection interrupted • Power supply interrupted	• Notification of low battery • WiFi connection interrupted • Power supply interrupted		
		12 months Part no. 0526 0735	24 months Part no. 0526 0732	36 months Part no. 0526 0733
SMS alarms	No	25 SMS per logger	50 SMS per logger	75 SMS per logger
SMS options	no SMS purchasable	packages of 250 purchasable in the Cloud Part no. 0572 2498		

Accessories

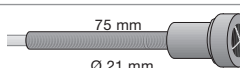| Additional accessories	Part no.
SMS package, 250 SMS alarms, as an upgrade to the Advanced licences over 12, 24 and 36 months validity period	0572 2498
Door contact or WiFi data logger testo Saveris 2-T2	0572 2152
Mains unit for testo Saveris 2 WiFi data loggers	0572 2020
Battery for radio probe (4 AA alkali manganese mignon batteries)	0515 0414
Batteries for operating WiFi data loggers testo Saveris 2 below -10 °C (4 Energizer L91 Photo lithium)	0515 0572
ISO calibration certificate temperature; temperature probe; calibration points -18 °C; 0 °C; +40 °C per channel/instrument	0520 0153
DAkkS calibration certificate/temperature; temp. data logger; cal. points -18 °C; 0 °C; +40 °C; per channel/instrument	0520 0262
ISO calibration certificate humidity; 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; cal. points 11.3 %RH and 75.3 %RH at +25 °C; per channel/instrument	0520 0246

Technical data
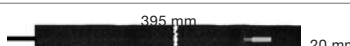
WiFi data loggers	testo Saveris 2-T1	testo Saveris 2-T2	testo Saveris 2-T3			testo Saveris 2-H1	testo Saveris 2-H2
Temperature measurement							
Sensor type	NTC internal	NTC	TC Type K	TC Type J	TC Type T	NTC internal	NTC
Measuring range	-30 to +50 °C	-50 to +150 °C	-195 to +1350 °C	-100 to +750 °C	-200 to +400 °C	-30 to +50 °C	-30 to +70 °C
Accuracy ±1 digit	±0.5 °C	±0.3 °C	±(0.5 + 0.5 % of m.v.)°C			±0.5 °C	±0.3 °C
Resolution	0.1 °C						
Humidity measurement							
Measuring range	–					0 to 100 %RH	Measuring range and accuracy de- pending on probe
Accuracy	–					±2 %RH	
Resolution	–					0.1 %RH	
Temperature/humidity measurement with external probes							
Connection of external probes	–	External temperature probes	External temperature probes			–	External humidity/ temperature probes

Operating temperature	-30 to +50 °C	
Storage temperature (incl. batteries)	-40 to +70 °C	
Protection class	IP65	IP65	IP54	IP30	IP54
Measuring rate	Basic: 15 mins (fixed) / Advanced: 1 min to 24 h (flexible)	
Communication interval	Basic: 15 mins (fixed) / Advanced: 1 min to 24 h (flexible)	
Memory	10000 measurement values/channel	
Norms / permits	EN 12830	EN 12830	–
Battery life	24 months at +25 °C and 15 mins measurement and communication interval at -30 °C and 15 mins measurement and communication interval with Energizer batteries 0515 0572	
Voltage supply	4 x AA AlMn batteries; mains unit optional; for temperatures below -10 °C please use Energizer batteries 0515 0572	
Dimensions	95 x 75 x 30.5 mm	
Weight (incl. batteries)	240 g	
Door contact	no	optional	no

Temperature probes for testo Saveris 2-T2

Probe type	Dimensions Probe shaft/probe shaft tip	Measuring range	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, Fixed cable 2.4 m	40 mm / Ø 6 mm	-30 to +90 °C	±0.2 °C (0 to +70 °C) ±0.5 °C (remaining range)	190 s	0628 7503
Accurate immersion/penetration probe, 6m cable, IP 67, Fixed cable	40 mm / Ø 3 mm / Ø 3 mm	-35 to +80 °C	±0.2 °C (-25 to +74.9 °C) ±0.4 °C (remaining range)	5 s	0610 1725
Probe for surface measurement, Fixed cable, 2 m	40 mm / 8 x 8 mm	-50 to +80 °C	±0.2 °C (0 to +70 °C)	150 s	0628 7516
Penetration probe NTC with ribbon cable, cable length 2 m, IP 54, Fixed cable,	60 mm / 30 mm / Ø 5 mm / Ø 3.6 mm	-40 to +125 °C	±0.5 % of m.v. (+100 to +125 °C) ±0.2 °C (-25 to +80 °C) ±0.4 °C (remaining range)	8 s	0572 1001
Pipe wrap probe with Velcro for pipe diameter to max. 75 mm, Tmax. +75 °C, NTC, Fixed cable	300 mm	-50 to +70 °C	±0.2 °C (-25 to +70 °C) ±0.4 °C (-50 to -25.1 °C)	60 s	0613 4611

Find more probes at www.testo.com!

Temperature probes for testo Saveris 2-T3

Probe type	Dimensions Probe shaft/probe shaft tip	Measuring range	Accuracy	t_{99}	Part no.
Stationary probe with stainless steel sleeve, TC Type K	40 mm, Ø 6 mm, Connection: Fixed cable 1.9 m	-50 to +205 °C	Class 2*	20 s	0628 7533
Penetration probe TC with ribbon cable, Type K, cable length 2 m, IP 54	60 mm, Ø 5 mm, 30 mm, Ø 3.6 mm	-40 to +220 °C	Class 1	7 s	0572 9001
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, Connection: 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 up to +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 temperature measurement on pipes with diameter up to max. 120 mm; Tmax. +120 °C; TC Type K	395 mm, 20 mm, Connection: Fixed cable 1.5 m	-50 to +120 °C	Class 1*	90 s	0628 0020
Flexible, low-mass immersion measurement tip, ideal for measurements in small volumes such as petri dishes, or for surface measurements (e.g. attached with adhesive tape), TC Type K, 2 m, FEP insulated thermal wire, temperature proof up to 200 °C, oval wire with dimensions: 2.2 mm x 1.4 mm	Ø 0.25 mm, 500 mm	-200 to +1000 °C	Class 1*	1 s	0602 0493

*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).

Humidity/temperature probes for testo Saveris 2-H2

Probe type	Dimensions Probe shaft/probe shaft tip	Measuring range	Accuracy	Part no.
Humidity/temperature probe 12 mm		-20 to +70 °C 0 to 100 %RH	±0,3 °C ±2 %RH at +25 °C (2 to 98 %RH) ±0,03 %RH/K ± 1 digit	0572 6172
Humidity/temperature probe 4 mm		0 to +40 °C 0 to 100 %RH	±0,3 °C ±2 %RH at +25 °C (2 to 98 %RH) ±0,08 %RH/K ± 1 digit	0572 6174
External humidity/temperature probe 12 mm, plug-in, without cable	16 mm, Ø 12 mm	-30 to +50 °C 0 to 100 %RH	±0.3 °C ±2 %RH	0572 2151

Find more probes at www.testo.com!

1981 2014/msp/A/01.2016

Subject to change without notice.

www.testo.com