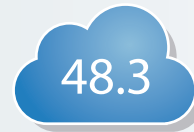# WiFi data logger system

testo Saveris 2 – temperature and humidity monitoring re-thought

Data transfer by WiFi

All measurement data always available, anywhere, on any instrument

Alarms when limit values are violated

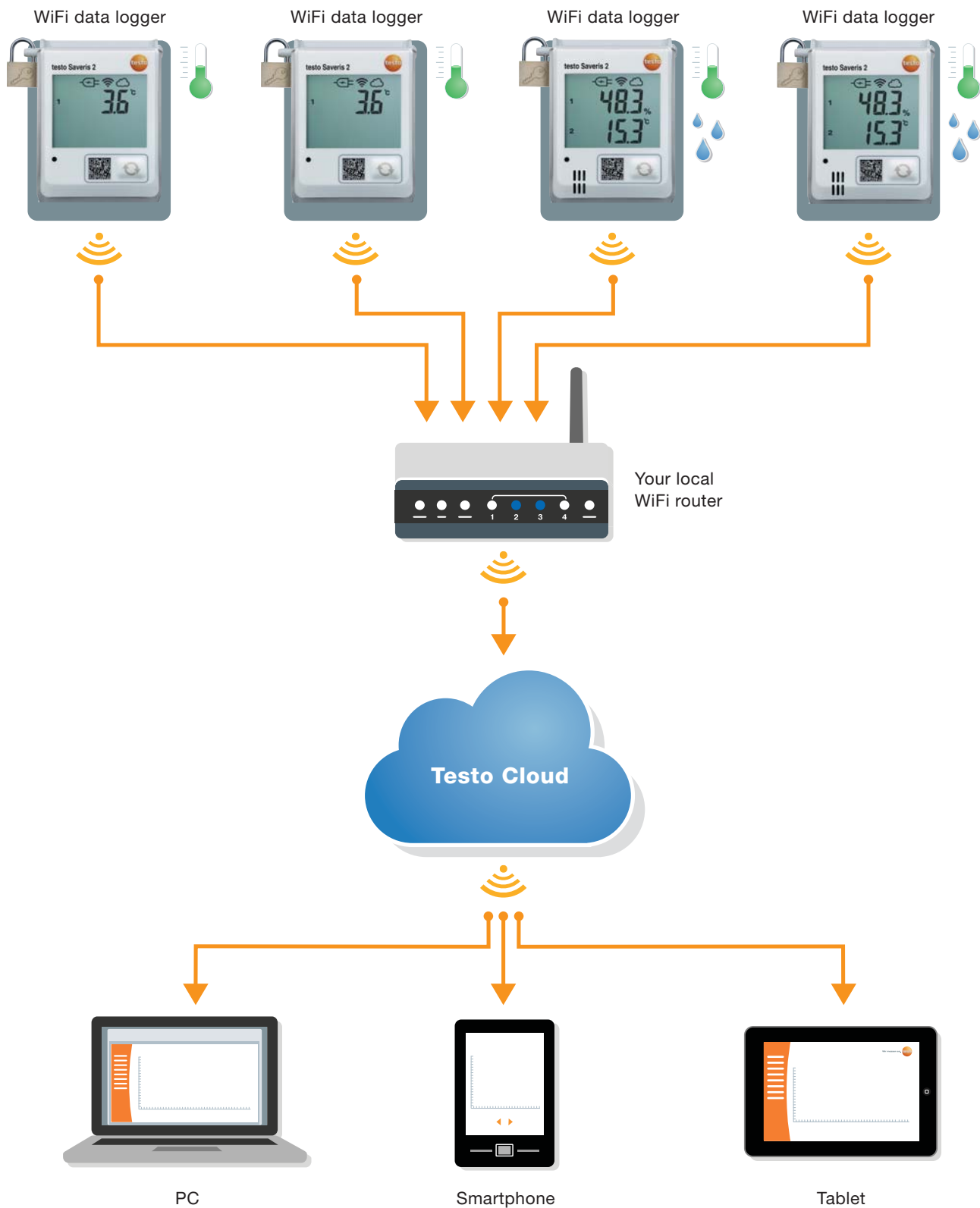testo Saveris 2-T1 and -T2 DIN EN 12830 compliant

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 a Cloud data store.
The testo Saveris 2 WiFi data loggers reliably record temperature and humidity at defined intervals, and transmit the measurement values directly by WiFi 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, defined limit values, limit value violations, min./max. values 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-invented.

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

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

Please note that to use the WiFi data logger system testo Saveris 2, a WiFI data logger, a Cloud licence and a WiFi-capable network are absolutely necessary.

testo Saveris 2 Cloud licences

testo Saveris 2 Cloud licences	Part no.	
testo Saveris 2 Cloud licence Small, licence for 24 months and up to 10 WiFi data loggers	0572 2401	
testo Saveris 2 Cloud licence Medium, licence for 24 months and up to 20 WiFi data loggers	0572 2402	

When you purchase this Testo Cloud licence, you receive a licence code which you can activate at www.saveris.net.

testo Saveris Cloud licences incl. SMS alarms	Part no.	
testo Saveris 2 Cloud licence Small, licence for 24 months and up to 10 WiFi data loggers, incl. 200 SMS alarms per year	0572 2404	
testo Saveris 2 Cloud licence Medium, licence for 24 months and up to 20 WiFi data loggers, incl. 400 SMS alarms per year	0572 2405	

When you purchase this Testo Cloud licence, you receive a licence code which you can activate at www.saveris.net.

testo Saveris 2 Cloud licence Small

• Secure storage of all measurement values from up to 10 WiFi data loggers in the Testo Cloud

• Constant availability of the measurement values on your Smartphone, tablet or PC

• Alarms by e-mail or SMS (optional) when limit values are violated

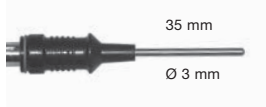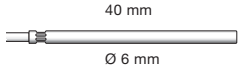• Detailed evaluation and analysis of your measurement values

testo Saveris 2 Cloud licence Medium

• Secure storage of all measurement values from up to 20 WiFi data loggers in the Testo Cloud

• Constant availability of the measurement values on your Smartphone, tablet or PC

• Alarms by e-mail or SMS (optional) when limit values are violated

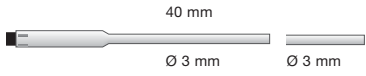• Detailed evaluation and analysis of your measurement values

Accessories

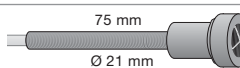| Additional accessories	Part no.	
Mains unit for testo Saveris 2 WiFi data loggers	0572 2020	
Battery for radio probe (4 AA alkali manganese mignon batteries)	0515 0414	
Batteries for operating WiFi data loggers testo Saveris 2 below -10 °C (4 Energizer L91 Photo lithium)	0515 0572	
ISO calibration 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	NTC	TC Type K	TC Type J	TC Type T	NTC	Measuring range and accuracy depending on probe
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	
Accuracy ±1 digit	±0.5 °C	±0.5 °C	±(0.5 + 0.5 % of m.v.)°C			±0.5 °C	
Resolution	0.1 °C						
Humidity measurement							
Measuring range	–					0 to 100 %RH	Measuring range and accuracy depending 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	5 s to 24 h (15 mins pre-set)				
Communication interval	1 min to 24 h (15 mins pre-set)				
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	t_{99}	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.in!

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	-50 to +205 °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	±0.5 °C ±2 %RH	0572 2151

Find more probes at www.testo.in!

Subject to change without notice.

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