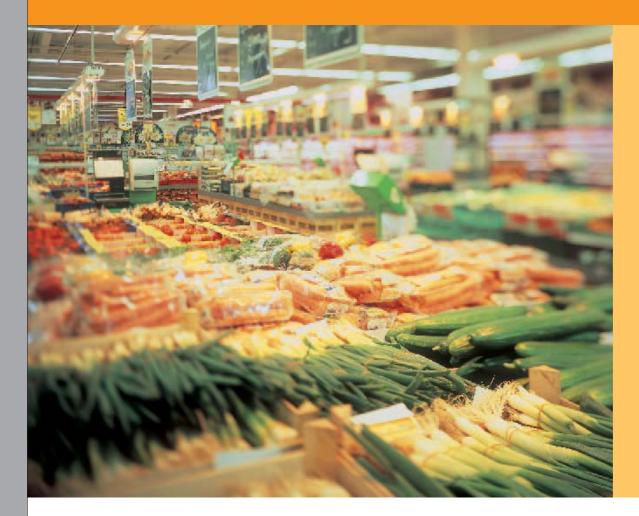


2011

Measurement Engineering for Restaurants, Catering and Supermarkets









Testo measuring instruments – The important ingredient for good food

Of course your customers expect from you food products which are fresh and food which is prepared with care and is wholesome. To achieve this, ambient conditions on display surfaces, in refrigerated cabinets and storage rooms must be monitored along with the temperatures of cooking units or the condition of the oil in a deep-fat fryer.

Testo is here to help you with all your measurement tasks. We make a point of following closely all the latest developments in the monitoring of foodstuffs. In this way, we are always in a position to offer up-to-date solutions optimised to suit your applications. It's no wonder that tens of thousands of Testo instruments are used regularly by supermarkets, food specialist stores, restaurants and catering services.

Measurement solutions for field use

The freshness of food products and the digestibility of food is difficult to judge. Measurements can help you make decisions. The procedures are usually time-consuming and often can only be carried out in the laboratory. Testo offers user-friendly measurement engineering solutions suitable for daily use. One good example are the new pH probes which work with a gel electrolyte as a reference medium for pH measurement and, unlike conventional sensors, are leak-proof, maintenance-free and

not affected by dust and dirt particles. A real highlight is the electronic cooking oil tester which provides you with reliable information within seconds about the state of the oil in a hot deep-fat fryer. The advantage for you is that you can determine the flavour of your deep-fried food and also use cooking oil sparingly. Analysis of the state of the oil based on polarisable substances is recognised internationally but has been mainly carried out in laboratories up to now or was determined via test sets for which replacements had to be purchased.

Fully reliable and efficient

Measuring instruments must be accurate at all times. We offer you well-engineered instruments which have not only been subjected to stringent tests during the development phase but have undergone comprehensive year long field tests prior to being released on the market. The instruments also have to be calibrated to ensure food safety. Calibration should be carried out annually to augment legal certainty. Our calibration laboratories are held in high esteem internationally and are also approved for calibrations on behalf of the Deutsche Akkreditierungsstelle DAkkS (successor organization of the DKD German Calibration Service).



Documenting parameters systematically

You have to document your measurements so that they are verifiable. Many of Testo's instruments can be read out with a practical fast printer via infrared. Measurement data is documented practically automatically. The data in our dataloggers, with which you can record temperatures and air humidity in storerooms, freezers or display surfaces, for example, can also be collected by a "data collector" and then sent to a PC. A convenient method to collect data from different sites.

Better measurements with better equipment

Often, it is the right accessory which makes a measurement engineering solution complete. Testo offers a wide range of accessories for its instruments which, in turn, helps you to complete your measurement tasks efficiently. The range extends from numerous different probe types and designs, optional wireless or conventional probes via a fast printer and data collector to a dishwasher-safe TopSafe protection case with which you can protect your instrument from dirt, impact and moisture.

Learning changes

What was that again – who has to measure with calibrated measuring instruments? What exactly is the connection between germ multiplication and temperature?

If you need answers to the above questions, just give us a call. We will do our best to answer them.

Top engineering for first class products

Horst Zahner, Managing Director and Company founder, Traiteur GmbH, Freiburg, Germany



Zahner Traiteur GmbH in Freiburg, Germany was founded in the year 1970 and over the years has developed into a modern production business in the food sector. The high levels of product warranty, reliability and quality have been consistently improved on over the past 30 years of the company's existence. The company is one of the most renowned in the delicatessen and catering segment. More than 90 employees work to supply top products on a daily basis. 36 small haulage contractors are responsible for delivering prepared goods every day.

We spoke to Managing Director and Company founder Horst Zahner:

"You cannot compromise on quality – we cannot just sign and that's it – we live it every day with our whole team; regardless of whether it is catering, delicatessen dishes, party service or our fresh pasta.

Closed quality assurance systems, which can be documented, are an indispensable requisite for our continued market success. We recognised at an early stage that Testo speaks our language exactly. No other supplier offers the range of products and this level of efficiency. As you can imagine, in our business not only is highest quality important, punctuality and speed are also top priorities and Testo's product line accomodates us with user-friendly operation, manageability and robustness. Now, that's what I call field-oriented measurement engineering.

By the way, the ever resourceful Testo developers really hit the mark with their logger systems. Now we can monitor transport of our highly sensitive products non-stop; nothing is left to chance and documentation of the measurement data just couldn't be easier.

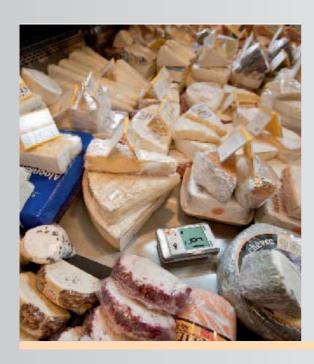
Over the last few years, we have started sending our employees regularly to Testo for training. Not only do we gain important insights into the optimum use of Testo measurement engineering, but we also learn how we can quickly adapt to the latest legal requirements.

That's what I call all-inclusive – Keep up the good work Testo – after all, we quality fanatics have to stick together..."

Exactly the right instrument











Temprature measurement – fast and easy

Mini thermometer

The quick-action immersion/penetration thermometer is ideal for measuring the temperature in air, soft or powdery substances and

The surface thermometer has a widened measurement tip especially for surface measurements.

- Easy to read thanks to large display
- Can be used anywhere

Mini thermometer

up to +150 °C, length 133 mm

Part no. 0560 1110

Mini thermometer

up to +250 °C, length 213 mm

Part no. 0560 1111

Mini surface thermometer

up to +300 °C, length 120 mm

Part no. 0560 1109



Fast spot check measurements

Accessories Ordering data Part no.

Button cell batteries, Type LR 44, 1.5 Volt (4 off)

0515 0032

Technical data -50 to +150 °C -50 to +250 °C -50 to +300 °C Meas. range ±1 °C (-10 to +99.9 °C) ±1 °C (-10 to +99.9 °C) ±1 °C (-30 to +250 °C) Accuracy ±2 °C (-30 to -10.1 °C) ±2% of mv (+100 to +199.9 ±1 digit ±2 °C (remaining range) ±2%of mv (+100 to +150 ±3% of mv(+200 to +250 Resolution 0.1 °C (-19.9 to +150 °C) 0.1 °C (-19.9 to +199.9 °C) 0.1 °C (-19.9 to +199.9 °C) 1 °C (remaining range) 1 °C (remaining range) 1 °C (remaining range) Oper. temp. -10 to +50 °C -10 to +50 °C -10 to +50 °C

Temperature measurement - accurate and super-fast



testo 905-T1

One of the fastest penetration thermometers, with a broad measurement range and high accuracy

testo 905-T2

The surface thermometer in professional quality with a sprung thermocouple measurement head, very fast reaction time and high accuracy.

testo 905-T1

testo 905-T1: penetration thermometer incl. attachment clip, battery

testo 905-T2

testo 905-T2: surface thermometer with cross-band probe, incl. attachment clip, battery

Part no. 0560 9056

Technical data -50 to +350 °C -50 to +350 °C Meas. range Short-term to +500 °C Short-term to +500 °C ±1 °C (-50 to +99.9 °C) ±1% of mv (remaining range) Accuracy ±(1 °C ±1% of mv) ±1 digit 0.1 °C Resolution Battery life 1000 h Oper. temp. 0 to +40 °C Storage temp. -20 to +70 °C

Accessories testo 905-T1

Part no. 0560 9055

ISO calibration certificate/temperature, for air/immersion 0520 0001 probes, calibration points -18°C; 0°C; +60°C

Part no.

Accessories testo 905-T2 Part no. ISO calibration certificate/temperature, meas. instr with surface probe; calibration points +60°C; +120°C; 0520 0071

Immersion/penetration probe, Ø 3mm with pro sensor (thermocouple Type K)

testo 905-T1:

testo 905-T2: sprung thermocouple cross-band Ø 12 mm adapts to any surface



Checking hotplates and griddles



Temperature measurement - fast and easy

Waterproof mini thermometer

Fast spot check temperature measurement with the watertight mini thermometer is an important topic in the the food sector. Thanks to the large, easily legible diplay, temperature checks are possible even under bad light conditions.

- Easy to read thanks to large display
- Can be used anywhere



Spot checks at a food counter

Waterproof mini thermometer

up to +230 °C, length 133 mm, Protective sleeve for probe shaft

Part no. 0560 1112

Technical data	
Meas. range	-40 to +230 °C
Accuracy ±1 digit	±1 °C (-20 to +99.9 °C) ±2% of mv (+100 to +199.9 °C) ±3% of mv(+200 to +230 °C)
Resolution	0.1 °C (-19.9 to +199.9 °C) 1 °C (remaining range)
Oper. temp.	-10 to +50 °C

Accessories Ordering data	Part no.
Button cell batteries, Type LR 44, 1.5 Volt (4 off)	0515 0032

Ambient condition measurements - versatile and easy

testo 605-H1

The thermo-hygrometer you can bend. Small, compact and accurate. The long-term stable sensor guarantees correct measurement results even after years.

- Dewpoint calculation from -20 to +50 °Ctd
- Long-term stable Testo humidity sensor
- Ideal for measurements in ducts
- Display can be angled for easy readout of measurement values

testo 605-H1

testo 605-H1: thermohygrometer with duct holder, incl. attachment clip and battery

Part no. 0560 6053



With flexible joint

Monitoring air humidity

Technical data			
Meas. range	+5 to +95 %RH 0 to +50 °C -20 to +50 °C td		
Accuracy ±1 digit	±3 %RH / ±0.5 °C		
Resolution	0.1 %RH / 0.1 °C	Battery life	Approx. 1000 h
Oper. temp.	0 to +50 °C	Storage temp.	-20 to +70 °C

Accessories Ordering data	Part no.
ISO calibration certificate/humidity, Calibration point 75.3%RH at +25°C	0520 0096
ISO calibration certificate humidity, Calibration points 11.3 %RH and 75.3 %RH at +25°C	0520 0006







testo 103 - The smallest folding thermometer



Convenient for measurements of all types...

- · At 11 cm the smallest folding thermometer of its class.
- · It fits into any hand and any pocket.

Practical...

- · It is quickly ready to hand and always available.
- · Its narrow probe tip is ideal for spot check measurements.
- · It has an easy-to-clean white ABS housing, ensuring hygienically sound temperature measurements.

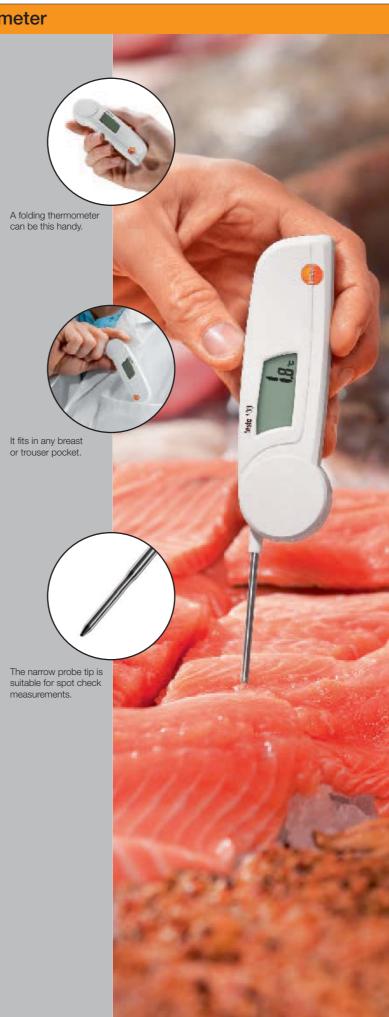
Strong in application...

- · Fulfils protection class IP55.
- · Is equipped with a robust probe an allround talent!

testo 103 folding thermometer

Part no. 0560 0103

Technical data	
Measurement unit	Temperature (°C / °F)
Sensor type	NTC
Measuring range	-30 to +220 °C
Accuracy	±0.5 °C (-30 to+1.+ 99.9 °C)
	±1% of the measurement value
	(+100 to +220 °C)
Resolution	0.1 °C / °F
Operating temperature	-20 to +60 °C
Storage temperature	-30 to +70 °C
Battery type	2 x CR2032 Lithium batteries
Life	300 h (typical)
Dimensions (LxWxH)	189 x 35 x 19 mm (probe folded out)
Probe length / diameter	75 mm / ø 3 mm
Probe tip / diameter	22 mm / ø 2.3 mm
Display	LCD, 1-line, not illuminated
Response time	t ₉₉ = 10 sec
Switching on/off	With folding mechanism (ca. 30°) /
	Auto Off after 60 mins
Housing material	ABS
Weight	49 g (incl. battery)
Protection class	IP55
Warranty	2 years
Certificate	EN 13485





testo 104 - The first waterproof thermometer which can also be folded

Convenient for measurements of all types...

- · Ideally suited to core temperature measurements thanks to a robust metal
- folding joint and a long, stable measurement probe...
- · Protection class IP65, allows cleaning under running water and use under all conditions.

Practical...

- · The rubber-coated surface guarantees non-slip handling.
- The especially large, illuminated display allows fast and error-free readout of the measurement values.
- Thanks to the coloured strips included in delivery, you can allocate the instrument to individual persons or certain areas of work.

Strong in application...

- · Automatic final value recognition thanks to Auto-Hold and storage of min./max. values.
- The 1st thermometer which combines a folding mechanism and waterproofness.

testo 104 folding thermometer

Part no. 0563 0104

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Technical data	<u> </u>
Measurement unit	Temperature (°C / °F / °R)
Sensor type	NTC
Measuring range	-50 to +250 °C
Accuracy	±1.0 °C (-50 to -30.1 °C) ±0.5 °C (-30 to +99.9 °C) ±1% of the measurement value (+100 to +250 °C)
Resolution	0,1 °C / °F / °R
Operating temperature	-20 to +60 °C
Storage temperature	-30 to +70 °C
Battery type	2 x AAA batteries
Life	100 h (typical)
Dimensions (LxWxH) Probe length / diameter Probe tip / diameter	265 x 48 x 19 mm (probe folded out) 106 mm / ø 3 mm 32 mm / ø 2.3 mm
Display	LCD, 1-line, illuminated
Response time	t ₉₉ = 10 sec
Further functions	Auto Hold, Hold, Min / Max
Switching on/off	With folding mechanism (ca. 30°) / Auto Off after 60 mins
Housing material	ABS/TPE/PC, diecast zinc, stainless steel
Weight	165 g (incl. battery)
Protection class	IP65
Warranty	2 years
Certificate	EN 13485







Core thermometer - fast and robust



testo 106

The core thermometer testo 106 with a thin, robust measuring tip, excellently suited for fast core temperature checks

 Automatic recognition of final value (Auto-Hold)



Only in combination with Topsafe

Accessories Ordering data	Part no.
TopSafe (indestructible protection case), waterproof and dishwasher-safe protection case (IP67)	0516 8265
Frozen food drill, loss-proof attachment to belt clip	0554 0826
Holding clip with probe protection cap	0554 0825
ISO calibration certificate/temperature, for air/immersion probes, calibration point +60°C	0520 0063
ISO calibration certificate/temperature, for air/immersion probes, calibration point -18°C	0520 0061
ISO calibration certificate/temperature, for air/immersion probes, calibration point 0°C	0520 0062
ISO calibration certificate/temperature, for air/immersion probes, calibration points -18°C; 0°C	0520 0041
ISO calibration certificate/temperature, for air/immersion probes, calibration points -8°C; 0°C; +40°C	0520 0181



testo 106, core thermometer incl. probe protecting cap and battery

Part no. 0560 1063

Set testo 106

Set testo 106, core thermometer incl. TopSafe (waterproof protective case, IP 67), belt clip, probe protecting cover and battery

Part no. 0563 1063



Checking the correct temperature of sensitive foodstuffs, e.g. fish

Technical data			
Meas. range	-50 to +275 °C		
Accuracy ±1 digit	±1 % of mv (+100 to +275 °C ±0.5 °C (-30 to +99.9 °C)	C) ±1 °C (-50 t	o -30.1 °C)
Resolution	0.1 °C	Battery life	350 h
Oper. temp.	-20 to +50 °C	Dimensions	215 x 34 x 19 mm
Storage temp.	-40 to +70 °C	Weight	80 g

Robust one-hand thermometer - With interchangeable measurement tips







- ter •2ı
- The robust food thermometer with interchangeable measurement tips for control measurements in abattoirs, refrigerated storerooms, lorries etc.

testo 105

testo 105

One-hand thermometer with standard measurement tip, incl. battery and belt/wall holder

Part no. 0563 1051

1 41110. 0000 1001			
Technical data			
Probe type	NTC		
Meas. range	-50 to +275 °C		
Accuracy ±1 digit	±0.5 °C (-20 to +100 °C) ±1 °C (-50 to -20.1 °C) ±1 % of mv (+100.1 to +275 °C)		
Resolution	0.1 °C		
Storage temp.	-40 to +70 °C		
Oper. temp.	-20 to +50 °C		
Battery type	4 x Button cell LR44		
Auto Off	10 min		
Protection class	IP65		
Dimensions	145 x 38 x 195 mm		
Weight	139 g		

- 2 user-defined limit values, visual or audible alarm
- Built-in display illumination
- Audible key feedback
- 1 line display
- Waterproof (IP 65) and robust

Accessories Ordering data

Standard measurement tip, 100 mm

Part no. 0613 1051

Frozen food tip, 90 mm long

Part no. 0613 1052

Long measurement tip, 200 mm long

Part no. 0613 1053

Aluminium case for the testo 105 onehand thermometer and accessories Part no. 0554 1051

Button cell batteries, Type LR 44, 1.5 Volt (4 off)

Part no. 0515 0032

ISO calibration certificate/temperature, for air/immersion probes, calibration points -18°C; 0°C
Part no. 0520 0041

Standard measurement tip 100 mm

Frozen food tip 90 mm

Long measurement tip 200 mm

Easy-to-change measurement tips

Measuring core temperature on delivery of fresh meat

testo 105 with frozen food measurement tip

testo 105 with frozen food measurement tip, belt/wall holder and batteries

Part no. 0563 1054

Complete case

One-hand thermometer with standard measurement tip, frozen food tip, long measurement tip and belt/wall holder in aluminium case

Part no. 0563 1052



Mini thermometer - With penetration probe



Mini thermometer

The affordable mini thermometer with Min/Max alarm. Small in size but big on quality! The penetration probe is attached to the instrument (80 cm cable) and is suitable for measuring the temperature in air, in soft powdery substances and in liquids.

- Securely attached probe
- Adjustable Min/Max alarm
- Integrated clip for attachment to clothing, wall, placing in position

Mini thermometer

Mini thermometer, battery included

Part no. 0900 0530

Ordering data/Quantity discount	Part no.
Mini thermometer, from 5 off	
Mini thermometer, from 10 off	
Mini thermometer, from 25 off	
Mini thermometer, from 50 off	
ISO calibration certificate/temperature, for air/immersion probes, calibration point -18°	C 0520 0061
ISO calibration certificate/temperature, for air/immersion probes, calibration point 0°C	0520 0062



Routine checks on cheese counters

Technical dat	a		
Meas. range	-50 to +150 °C	Oper. temp.	0 to +50 °C
Accuracy	±1 °C (-10 to +100 °C)		
±1 digit ±2 °C (remaining range)	Storage temp20 to +70 °C		
		Battery life	100 h
Resolution	0.1 °C (-19.9 to +150 °C)		
	1 °C (-50 to -20 °C)	Battery type	2 AAA micro batteries

Temperature clock indicators

testoterm clock indicators

testoterm clock indicators are self-adhesive, temperatureresistant foils with heat-sensitive elements to monitor temperature.

- Practical booklet with 10 clock indicators
- Clock indicators available on sheets from 5000 off (100 sheets of 50 off)

Irreversible change in colour within 2 seconds

Actual size



Monitoring temperature in cooking or smoking cabinets

testoterm clock indicators

+40 to +54 °C Part no. 0646 0071 +60 to +82 °C Part no. 0646 0072 +88 to +110 °C Part no. 0646 0073 +116 to +138 °C Part no. 0646 0074 +143 to +166 °C Part no. 0646 0075 +171 to +193 °C Part no. 0646 0076 +199 to +224 °C Part no. 0646 0077 +232 to +260 °C Part no. 0646 0078

Ordering data/Quantity discount

1 to 4 booklets (with 10 each)
5 to 9 booklets (with 10 each)
10 to 19 booklets (with 10 each)
20 to 49 booklets (with 10 each)
50 to 99 booklets (with 10 each)

1000 on sheets of 50 (Minimum quantity 5000 off)

Technical data

Accuracy: from +43 °C to +154 °C: ± 1.5 °C; from +160 °C: $\pm 1\%$ ± 1 °C of respective temperature value

Maximum operating temperature: corresponding to respective measuring ranges Storage of clock indicators: up to +65 °C: max. 9 months;

remaining measuring ranges up to 2 years; max. storage temperature +25 °C. Storage in refrigerator recommended.



Thermometer strips - Convenient and reliable

testoterm strips

testoterm thermometer strips are self-adhesive foils with temperature sensitive elements for temperature control and regulation e.g. monitoring batches during cooking.

- +37 to +280 °C
- Thermometer strips available on rolls (e.g. for labelling machines) from a minimum order quantity of 5000 off.

Ordering options: 1 roll of 5000 off 5 rolls of 1000 off



Checks temperature in warehouses, during transport...

testoterm strips

+37 to +65 °C Part no. 0646 0108

+71 to +110 °C

Part no. 0646 0916 +116 to +154 °C

Part no. 0646 1724

+161 to +204 °C

Part no. 0646 2532

+204 to +260 °C

Part no. 0646 3341 +249 to +280 °C

Part no. 0646 0005

Ordering data/Quantity discount

1 to 4 booklets (with 10 each) 5 to 9 booklets (with 10 each) 10 to 19 booklets (with 10 each) 20 to 49 booklets (with 10 each) 50 to 99 booklets (with 10 each) 1000 on a roll (minimum quantity 5000 off) 5000 on a roll

Ordering option for 5000 off:

1 roll of 5000 off

5 rolls of 1000 off

Further rolls of 1000 can be ordered

Technical data

Same as temperature single indicators, see below

I x w: 50 x 18 mm or 39 x 18 mm

Temperature single indicators - Convenient and reliable

Single indicators

testoterm single indicators are self-adhesive temperature sensitive foils with elements to check a given maximum temperature.

- +43 to +199 °C
- Practical single indicator booklet
- Single indicators on rolls or sheets available from a minimum order quantity of 5000 off.

Ordering data/Quantity discount

1 to 4 booklets (with 50 each) 5 to 9 booklets (with 50 each) 10 to 19 booklets (with 50 each) 20 to 49 booklets (with 50 each) 50 to 99 booklets (with 50 each)

5000 on sheets on sheets or rolls Ordering options for rolls 1 roll of 5000 off 5 rolls of 1000 off

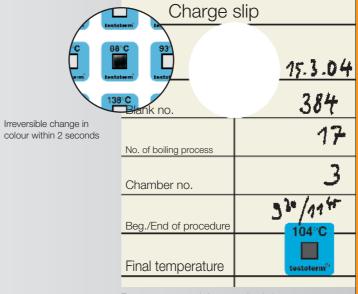
Single indicators

Measuring range: +46°C to +199°C Part no. 0646 1... (...=reading)

Ordering examples:

Single indicator: +46°C: 0646 1046 Single indicator: +199°C: 0646 1199 In stock:

71 °C, 77 °C, 82 °C, 110 °C, 143 °C For all additional single indicators (46/49/54/60/65/88/93/99/104/116/1 21/127/132/138/149/154/166/177/18 2/188/193/199/204/210/216/224/232 /241/249/254/260 °C) the following applies: Delivery time of 6 weeks for minimum order of 10 booklets.



Temperature control, for example, during storage, transport, when analysing damage etc.

Technical data

Accuracy: From +46 °C to +154 °C: ±1.5 °C; from +160 °C: ±1% ± 1°C of respective reading

Max. operating temperature corresponds to the respective measuring ranges other measuring ranges up to 2 years; max. storage temperature +25 °C. Storage in a refrigerator is recommended.

Storage of single indicators: Up to +65 °C: max. 9 months;

Dimensions I x w: 15 x 14 mm



Temperature monitoring — Highly accurate















The highly accurate, versatile testo 110 temperature measuring instrument is ideal for the food sector on account of its optional TopSafe protection case. The engineering used is specially designed for applications in refrigerated store rooms and cabinets and for outdoors.

In addition to the wide range of conventional probes available with cable, a wireless radio probe can be used simultaneously (if radio module is used in instrument).

- Wireless measurement with radio probes possible (optional)
- Audible alarm (adjustable alarm limits)
- Displays max/min readings in 2 line, backlit display



Inspects a refrigerated counter for sufficient refrigeration power



Only in combination with TopSafe

testo 110

testo 110, 1 channel temperature measuring instrument NTC, audible alarm, connection to an optional radio probe, with battery and calibration protocol

Part no. 0560 1108



Checks incoming goods, no annoying cables thanks to radio probe

Printer and Accessories	Part no.
Testo fast printer with wireless infrared interface, 1 roll thermal paper and 4 AA batteries	0554 0549
Spare thermal paper for printer (6 rolls), measurement data documentation legible for up to 10 years	0554 0568
Spare thermal paper for printer (6 rolls)	0554 0569
External fast charger for 1-4 AA rech. batteries, incl. 4 Ni-MH rech. batteries with individual cell charging and charge control display, incl. impulse trickle charging, integrated discharge function, with built-in international mains plug, 100-240 V, 300 mA, 50/60 Hz	0554 0610
Additional accessories	Part no.
9V rech. battery for instrument, instead of battery	0515 0025
Recharger for 9V rechargeable battery, for external recharging of 0515 0025 battery	0554 0025
Lithium battery, button cell, type CR 2032 for wireless probes	0515 0028
	_

for external recharging of 0515 0025 battery	0554 0025
Lithium battery, button cell, type CR 2032 for wireless probes	0515 0028
Transport and Protection	Part no.
TopSafe, protects from impact and dirt	0516 0221
Case for measuring instrument and probes	0516 0210
Transport case for meas. instr. and probes (405 x 170 x 85 mm)	0516 0201
Transport case for measuring instrument, 3 probes and accessories (430 x 310 x 85 mm)	0516 0200
Calibration Certificates	Part no.
ISO calibration certificate/temperature, for air/immersion probes, calibration points -18°C; 0°C; +60°C	0520 0001
DAkkS calibration certificate/temperature, meas. instr. with air/immersion probe; calibration points -20°C; 0°C; +60°C (Successor organization of the DKD)	0520 0211

0520 0072

0520 0073

ISO calibration certificate/temperature, single point calibration for surface thermometer; calibration point +60°C

ISO calibration certificate/temperature, single point calibration for surface thermometer; calibration point +120°C

Recommended	Set: testo	110 - 9	Starter set

testo 110, 1 channel temperature measuring instrument NTC, audible alarm, connection to an optional radio probe, with battery and calibration protocol	0560 1108
TopSafe, protects from impact and dirt	0516 0221
Waterproof NTC immersion/penetration probe	0613 1212
Transport case for meas. instr. and probes (405 x 170 x 85 mm)	0516 0201

Technical data	
Probe type	NTC
Meas. range	-50 to +150 °C
Accuracy ±1 digit	± 0.2 °C (-20 to ± 0.3 °C (remaining range)
Resolution	0.1 °C
Oper. temp.	-20 to +50 °C
Storage temp.	-40 to +70 °C
Battery type	9V block battery, 6F22
Battery life	200 h (connected probe, backlight off) 45 h (radio mode, backlight off) 68 h (connected probe, backlight always on) 33 h (radio mode, backlight always on)
Dimensions	182 x 64 x 40 mm
Weight	171 g

^{*} TopSafe: TPU casing; TPE lid; PC stand



Suitable probes at a glance / Option: Radio

nmers./penetr. probes	Illustration			Meas. range	Accuracy	t99	Part no.
Waterproof NTC immersion/penetration		115 mm	50 mm	-50 to +150 °C ²⁾	±0.5% of mv (+100 to +150 °C)	10 s	0613 1212
probe	-	Ø 5 mm	Ø 4 mm		±0.2 °C (-25 to +74.9 °C) ±0.4 °C (remaining range)		Conn.: Fixed cable, 1.2
Stainless steel NTC food probe (IP65) with		125 mm	15 mm	-50 to +150 °C ²⁾	±0.5% of mv (+100 to +150 °C)	8 s	0613 2211
PUR cable		Ø 4 mm	Ø 3 mm		±0.2 °C (-25 to +74.9 °C) ±0.4 °C (remaining range)		Conn.: Fixed cable, 1.6
Robust NTC food penetration probe with	115 mm		30 mm	-25 to +150 °C ²⁾	±0.5% of mv (+100 to +150 °C)	7 s	0613 2411
special handle, reinforced PUR cable	Ø 5 mm		Ø 3.5 mm		±0.2 °C (-25 to +74.9 °C) ±0.4 °C (remaining range)		Conn.: Fixed cable
Frozen food probe NTC, corkscrew design	110 mm		30 mm	-50 to +140 °C 1)	±0.5% of mv (+100 to +140 °C)	20 s	0613 3211
(incl. plug-in wire)	Ø 8 mm		Ø 4 mm		±0.2 °C (-25 to +74.9 °C) ±0.4 °C (remaining range)		Conn.: Plug-in cable
Stainless steel NTC food probe (IP67) with		125 mm	15 mm	-50 to +150 °C ²⁾	±0.5% of mv (+100 to +150 °C)	8 s	0613 3311
PTFE cable to +250°C	-	Ø 4 mm	Ø 3 mm		±0.2 °C (-25 to +74.9 °C) ±0.4 °C (remaining range)		Conn.: Fixed cable
probes	Illustration			Meas. range	Accuracy	t99	Part no.
		115 mm	50 mm	-50 to +125 °C ²⁾	±0.2 °C (-25 to +80 °C) ±0.4 °C (remaining range)	60 s	0613 1712
Efficient, robust NTC air probe		Ø 5 mm	Ø 4 mm				Conn.: Fixed cable
rface probes	Illustration			Meas. range	Accuracy	t99	Part no.
Waterproof NTC surface probe for flat		115 mm	50 mm	-50 to +150 °C ²⁾	±0.5% of mv (+100 to +150 °C)	35 s	0613 1912
surfaces		Ø 5 mm	Ø 6 mm		±0.2 °C (-25 to +74.9 °C) ±0.4 °C (remaining range)		Conn.: Fixed cable
Pipe wrap probe with Velcro for pipe diameter	300 mm			-50 to +70 °C	±0.2 °C (-25 to +70 °C) ±0.4 °C (-50 to -25.1 °C)		0613 4611
to max. 75 mm, Tmax. +75°C, NTC					10.4 0 (-30 to -23.1 '0)		Conn.: Fixed cable
The measuring instrument inside TopSafe is waterproduction	of with this probe.						e +125 °C, short-term +14 e +125 °C, short-term +15

Radio module for upgrading measuring instrument with radio option		
Country versions	Radio freq.	Part no.
Radio module for measuring instrument, 869.85 MHz, approval for the countries: DE, FR, UK, BE, NL, ES, IT, SE, AT, DK, FI, HU, CZ, PL, GR, CH, PT, SI, MT, CY, SK, LU, EE, LT, IE, LV, NO	869.85 MHz FSK	0554 0188
Radio module for measuring instrument, 915.00 MHz FSK, approval for USA, CA, CL	915.00 MHz FSK	0554 0190

Radio immersion/penetration probes	Meas. range	Accuracy	Resolution	t ₉₉
Radio immersion/penetration probe, NTC	-50 to +275 °C	±0.5 °C (-20 to +80 °C) ±0.8 °C (-50 to -20.1 °C) ±0.8 °C (+80.1 to +200 °C) ±1.5 °C (remaining range)	0.1 °C	t ₉₉ (in water) 12 s
Country versions		Radio freq.	Part no.	
Radio immersion/penetration probe, NTC, approval for the countries: DE, FR, UK, BE, CZ, PL, GR, CH, PT, SI, MT, CY, SK, LU, EE, LT, IE, LV, NO	NL, ES, IT, SE, AT, DK	, FI, HU, 869.85 MHz FSK	0613 1001	
Radio immersion/penetration probe, NTC, approval for USA, CA, CL		915.00 MHz FSK	0613 1002	

Radio probes: G	eneral technical data					
Probe type	Radio immersion/penetration probe, NTC	Radio handle	Measuring rate	0.5 s or 10 s,	Radio transmission Unidirectional	
Battery type	2 x 3V button cell (CR 2032)	2 AAA micro batteries		adjustable on handle	Oper. temp20 to +50 °C	
Battery life	150 h (meas. rate 0.5 s)	,	215 h (meas. rate 0.5 s)	· · · · · · · · · · · · · · · · · · ·		Storage temp40 to +70 °C
	2 months (meas. rate 10 s)	6 months (meas. rate 10 s)	Radio coverage	Up to 20 m (without obstructions)	Protection class IP54	



Calibratable Temperature Measuring Instrument











testo 112

testo 112 combines two temperature measuring instruments in one. In addition to the complete NTC probe range, Pt100 probes can also be attached. In this way, the temperature range of -50 to +300 °C is covered to the highest accuracy level. testo 112 is therefore the ideal instrument for food measurements ranging from the deep-freeze sector to the oil temperature in deep-fat fryers.

The backlit display makes it easy to read in environments with poor lighting. Minimum and maximum readings can be called up at the touch of a button. It is possible to print readings on site, for documentation purposes, on a fast printer (accessory).

- Large, backlit display with 14 mm high characters
- Call up max/min values at the touch of a button



Monitors temperature in refrigerated counter

testo 112

testo 112, 1 channel temperature measuring instrument NTC/Pt100, calibratable, with battery

Part no. 0560 1128

Printer and Accessories

Testo fast printer with wireless infrared interface, 1 roll thermal paper and 4 AA batteries	0554 0549
Spare thermal paper for printer (6 rolls)	0554 0568
Spare thermal paper for printer (6 rolls)	0554 0569
External fast charger for 1-4 AA rech. batteries, incl. 4 Ni-MH rech. batteries with individual cell charging and charge control display, incl. impulse trickle charging, integrated discharge function, with built-in international mains plug, 100-240 V, 300 mA, 50/60 Hz	0554 0610
Additional accessories and spare parts	Part no.
9V rech. battery for instrument, instead of battery	0515 0025
Recharger for 9V rechargeable battery, for external recharging of 0515 0025 battery	0554 0025
Transport and Protection	Part no.
TopSafe, protects from impact and dirt	0516 0220
Transport case for meas. instr. and probes (405 x 170 x 85 mm)	0516 0201
Transport case for measuring instrument, 3 probes and accessories (430 x 310 x 85 mm)	0516 0200
Calibration Certificates	Part no.
ISO calibration certificate/temperature, for air/immersion probes, calibration points -18°C; 0°C; +60°C	0520 0001

0520 0071

ISO calibration certificate/temperature, meas. instr. with surface probe; calibration points +60°C; +120°C; +180°C

14.40 92.03 PTB Type approval

Technical data	l .	
Probe type	NTC	Pt100
Meas. range	-50 to +120 °C	-50 to +300 °C
Accuracy ±1 digit	±0.2 °C (-25 to +40 °C) ±0.3 °C (+40.1 to +80 °C) ±0.5 °C (remaining range)	±0.2 °C (-50 to +200 °C) ±0.3 °C (remaining range)
Resolution	0.1 °C	0.1 °C
Oper. temp.	-20 to +50 °C	
Storage temp.	-30 to +70 °C	
Battery type	9V block battery, 6F22	
Battery life	100 h	
Dimensions	182 x 64 x 40 mm	
Weight	171 g	

^{*} TopSafe: TPU housing; TPE lid; PC stand



Suitable probes at a glance

nmers./penetr. probes (not calibratable)	Illustration			Meas. range	Accuracy	t99	Part no.
Waterproof NTC immersion/penetration probe		115 mm Ø 5 mm	50 mm	-50 to +150 °C ²⁾	±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 Conn.: Fixed cable
Stainless steel NTC food probe (IP65) with PUR cable	-	125 mm Ø 4 mm	15 mm	-50 to +150 °C ²⁾		8 s	0613 2211 Conn.: Fixed cable
Robust NTC food penetration probe with special handle, reinforced PUR cable	115 mm Ø 5 mm		30 mm Ø 3.5 mm	-25 to +150 °C ²⁾	±0.5% of mv (+100 to +150 °C) ±0.2 °C (-25 to +74.9 °C) ±0.4 °C (remaining range)	7 s	0613 2411 Conn.: Fixed cable
Frozen food probe NTC, corkscrew design (incl. plug-in wire)	110 mm Ø 8 mm		30 mm	-50 to +140 °C ¹⁾	±0.5% of mv (+100 to +140 °C) ±0.2 °C (-25 to +74.9 °C) ±0.4 °C (remaining range)	20 s	0613 3211 Conn.: Plug-in cable
Stainless steel NTC food probe (IP67) with PTFE cable to +250°C		125 mm Ø 4 mm	15 mm	-50 to +150 °C ²⁾	±0.5% of mv (+100 to +150 °C) ±0.2 °C (-25 to +74.9 °C) ±0.4 °C (remaining range)	8 s	0613 3311 Conn.: Fixed cable
ir probes	Illustration			Meas. range	Accuracy	t99	Part no.
Efficient, robust NTC air probe	-	115 mm Ø 5 mm	50 mm Ø 4 mm	-50 to +125 °C ²⁾	±0.2 °C (-25 to +80 °C) ±0.4 °C (remaining range)	60 s	0613 1712 Conn.: Fixed cable
urface probes	Illustration			Meas. range	Accuracy	t99	Part no.
Waterproof NTC surface probe for flat surfaces		115 mm Ø 5 mm	50 mm Ø 6 mm	-50 to +150 °C ²⁾	±0.5% of mv (+100 to +150 °C) ±0.2 °C (-25 to +74.9 °C) ±0.4 °C (remaining range)	35 s	0613 1912 Conn.: Fixed cable
Pipe wrap probe with Velcro for pipe diameter to max. 75 mm, Tmax. +75°C, NTC	300 mm			-50 to +70 °C	±0.2 °C (-25 to +70 °C) ±0.4 °C (-50 to -25.1 °C)		0613 4611 Conn.: Fixed cable

The measuring instrument inside TopSafe is waterproof with this probe.

¹⁾ Long-term meas. range +125 °C, short-term +140 °C 2) Long-term meas. range +125 °C, short-term +150 °C

testo 926 - Fast, accurate versatile thermometer





















Detlef Higgelke, Head of the Testo Academy stipulations and on physical interrelationships.

Even more important is the exchange with other specialists from your branch. After all, we are dealing with your competence and your professional routine when using our instruments.

By the way: 98% of our training participants fully recommend our seminars and training.



testo 926

The fast-action, efficient temperature measuring instrument, testo 926, for the food sector. The optional TopSafe protection case renders it insensitive to dirt, therefore making it the ideal partner for large-scale kitchens, hotels, restaurants or the food industry. Besides measuring minimum and maximum values, readings can also be printed on site on the Testo fast printer. In addition to the wide range of standard probes with cable, a wireless radio probe can be used simultaneously, if required.

- Measurement parameters °C, °F, °R
- Fast-action probes for every application
- Wireless measurement with radio probes possible (optional)
- · Audible alarm (adjustable alarm limits)
- Measurement data printout on site on the Testo fast printer
- TopSafe, the indestructible protection case (optional)



Air temperature measurement in refrigerated display counters and freezers

Printer and Accessories Part no. Testo fast printer with wireless infrared interface, 1 roll thermal paper and 4 AA batteries, for printing out measurements on site 0554 0549 Spare thermal paper for printer (6 rolls), measurement data documentation legible for up to 10 years 0554 0568 Spare thermal paper for printer (6 rolls) 0554 0569 External fast charger for 1-4 AA rech. batteries, incl. 4 Ni-MH rech. batteries with individual cell charging and charge control

display, incl. impulse trickle charging, integrated discharge function, with built-in international mains plug, 100-240 V, 300 mA, 50/60 Hz	0554 0610
Additional accessories	Part no.
9V rech. battery for instrument, instead of battery	0515 0025
Recharger for 9V rechargeable battery, for external recharging of 0515 0025 battery	0554 0025
Lithium battery, button cell, type CR 2032 for wireless probes	0515 0028
Transport and Protection	Part no.
TopSafe, protects from impact and dirt	0516 0220
Case for measuring instrument and probes	0516 0210
Transport case for meas. instr. and probes (405 x 170 x 85 mm)	0516 0201
Transport case for measuring instrument, 3 probes and accessories (430 x 310 x 85 mm)	0516 0200
Calibration Certificates	Part no.
ISO calibration certificate/temperature, for air/immersion	0500 0001
probes, calibration points -18°C; 0°C; +60°C	0520 0001
probes, calibration points -18°C; 0°C; +60°C ISO calibration certificate/temperature, meas. instr. with surface probe; calibration points +60°C; +120°C; +180°C	0520 0001
probes, calibration points -18°C; 0°C; +60°C ISO calibration certificate/temperature, meas. instr. with surface	
probes, calibration points -18°C; 0°C; +60°C ISO calibration certificate/temperature, meas. instr. with surface probe; calibration points +60°C; +120°C; +180°C ISO calibration certificate/temperature, single point calibration	0520 0071
probes, calibration points -18°C; 0°C; +60°C ISO calibration certificate/temperature, meas. instr. with surface probe; calibration points +60°C; +120°C; +180°C ISO calibration certificate/temperature, single point calibration for surface thermometer; calibration point +60°C ISO calibration certificate/temperature, single point calibration	0520 0071 0520 0072
probes, calibration points -18°C; 0°C; +60°C ISO calibration certificate/temperature, meas. instr. with surface probe; calibration points +60°C; +120°C; +180°C ISO calibration certificate/temperature, single point calibration for surface thermometer; calibration point +60°C ISO calibration certificate/temperature, single point calibration for surface thermometer; calibration point +120°C ISO calibration certificate/temperature, for air/immersion	0520 0071 0520 0072 0520 0073
probes, calibration points -18°C; 0°C; +60°C ISO calibration certificate/temperature, meas. instr. with surface probe; calibration points +60°C; +120°C; +180°C ISO calibration certificate/temperature, single point calibration for surface thermometer; calibration point +60°C ISO calibration certificate/temperature, single point calibration for surface thermometer; calibration point +120°C ISO calibration certificate/temperature, for air/immersion probes, calibration point -18°C	0520 0071 0520 0072 0520 0073 0520 0061



Measurement of penetration temperature when smoking foods, wireless radio transmission of measurement data

testo 926

testo 926-1, 1 channel food temperature measuring instrument T/C Type T, audible alarm, connection to an optional radio probe, with battery and calibration protocol

Part no. 0560 9261

testo 926, Starter set

testo 926, Starter set, 1 channel food temperature measuring instrument T/C Type T. incl. TopSafe, standard immersion/penetration probes, battery and calibration protocol

Part no. 0563 9262

Time for the essentials

"To be honest with you, the telephone is usually quiet between 6 and 7pm but the few people who do call are delighted. That's why I'm happy to be here too. Testo's Sales and Customer Service in Germany can be reached between 7am and 7pm."

Regina Walz Sales



Suitable probes at a glance / Technical data













mers./penetr. probes	Illustration		Meas. range	Accuracy	t99	Part no.
Vaterproof standard immersion/penetration	112	mm 50 mm	-50 to +350 °C	±0.2 °C (-20 to +70 °C)	7 s	0603 1293
probe, T/C Type T	Ø51	mm Ø4mm		Class 1 (remaining range)		Conn.: Fixed cable
Waterproof precision immersion/penetration	70 n	nm 15 mm	-50 to +350 °C	±0.2 °C (-20 to +70 °C) Class 1 (remaining		0603 2693
probe without visible penetration hole, T/C Type T	Ø51	mm Ø 1.5 mm		range)		Conn.: Fixed cable
Stainless steel food probe (IP67) with PUR	125 1	mm 30 mm	-50 to +350 °C	±0.2 °C (-20 to +70 °C) Class 1 (remaining	7 s	0603 2192
cable, T/C Type T	Ø41	mm Ø 3.2 mm		range)		Conn.: Fixed cable
Stainless steel food probe (IP67), with PTFE	125 ו	mm 30 mm	-50 to +350 °C ±0.2 °C (-20 to +70 °C) 7	7 s	0603 3392	
cable to +250 °C, TC Type T	Ø 4 r	mm Ø 3.2 mm		range)		Conn.: Fixed cable
Waterproof, super-quick needle probe for	150 ו	mm	-50 to +250 °C	±0.2 °C (-20 to +70 °C) Class 1 (remaining	2 s	0628 0027 Conn.: Fixed cable
measurements without visible penetration hole, T/C Type T	Ø 1.4	mm		range)		
Robust food penetration probe with special	115 mm	30 mm	-50 to +350 °C	0 °C ±0.2 °C (-20 to +70 °C) Class 1 (remaining range)	6 s	0603 2492
handle, reinforced cable (PVC), T/C Type T	Ø 5 mm	Ø 3.5 mm				Conn.: Fixed cable
Frozen food probe, corkscrew design, T/C	110 mm	30 mm	-50 to +350 °C	±0.2 °C (-20 to +70 °C) Class 1 (remaining	8 s	0603 3292
Type T	Ø 8 mm	Ø 4 mm		range)		Conn.: Plug-in cable
Quick needle probe to monitor cooking in	60 mm		-50 to +250 °C	±0.2 °C (-20 to +70 °C) Class 1 (remaining	2 s	0628 0030
oven, T/C Type T	Ø 1.4 mm			range)		Conn.: Fixed cable
Measurement tip with T/C adapter Type T,	500 i	mm	-50 to +350 °C	Class 1	5 s	0628 0023
ideal for fast-action measurement on incoming goods	Ø 1.5	mm				
r probes	Illustration		Meas. range	Accuracy	t99	Part no.
	112 :	mm 50 mm	-50 to +350 °C	±0.2 °C (-20 to +70 °C) 25 s		0603 1793
Robust, affordable air probe, T/C Type T	Ø51	mm Ø4mm	'	Class 1 (remaining range)		Conn.: Fixed cable
Flexible oven probe, Tmax +250 °C,	2000 mm		-50 to +250 °C	Class 1	5 s	0603 0646
PTFE cable	Ø 1.5 mm					
urface probes	Illustration		Meas. range	Accuracy	t99	Part no.
Waterproof surface probe with widened	and a	12 mm 50 mm	-50 to +350 °C	±0.2 °C (-20 to +70 °C) Class 1 (remaining	30 s	0603 1993
measurement tip for flat surfaces, T/C Type T	A STATE OF THE PARTY OF THE PAR	0.5 mm Ø 6 mm		range)		Conn.: Fixed cable

The measuring instrument inside TopSafe is waterproof with this probe.

Technical data	
Probe type	Type T (Cu-CuNi) or NTC and Type K if radio immersion/penetration probes are used
Parameters	°C, °F, °R
Meas. range	-50 to +400 °C
Accuracy ±1 digit	± 0.3 °C (-20 to +70 °C) $\pm (0.7$ °C $\pm 0.5\%$ of mv) (remaining range)
Resolution	0.1 °C (-50 to +199.9 °C) 1 °C (remaining range)
Oper. temp.	-20 to +50 °C
Storage temp.	-40 to +70 °C
Battery type	9V block battery, 6F22
Battery life	200 h (connected probe, backlight off) 45 h (radio mode, backlight off) 68 h (connected probe, backlight always on) 33 h (radio mode, backlight always on)
Dimensions	182 x 64 x 40 mm
Weight	171 g



Option: Radio

Radio module for upgrading measuring instrument with radio option					
Country versions	Radio freq.	Part no.			
Radio module for measuring instrument, 869.85 MHz, approval for the countries: DE, FR, UK, BE, NL, ES, IT, SE, AT, DK, FI, HU, CZ, PL, GR, CH, PT, SI, MT, CY, SK, LU, EE, LT, IE, LV, NO	869.85 MHz FSK	0554 0188			
Radio module for measuring instrument, 915.00 MHz FSK, approval for USA, CA, CL	915.00 MHz FSK	0554 0190			

Radio probes for immersion/penetration measurements				
Radio immersion/penetration probes	Meas. range	Accuracy	Resolution	t ₉₉
Radio immersion/penetration probe, NTC	-50 to +275 °C	±0.5 °C (-20 to +80 °C) ±0.8 °C (-50 to -20.1 °C) ±0.8 °C (+80.1 to +200 °C) ±1.5 °C (remaining range)	0.1 °C	t ₉₉ (in water) 12 s
Country versions		Radio freq.	Part no.	
Radio immersion/penetration probe, NTC, approval for the countries: DE, FR, UK, BE, CZ, PL, GR, CH, PT, SI, MT, CY, SK, LU, EE, LT, IE, LV, NO	NL, ES, IT, SE, AT, DK	, FI, HU, 869.85 MHz FSK	0613 1001	
Radio immersion/penetration probe, NTC, approval for USA, CA, CL		915.00 MHz FSK	0613 1002	

Assembled for you: Radio handles with probe head				
Radio handles with probe head for air-/ immersion-penetration-meas.	Meas. range	Accuracy	Resolution	t ₉₉
with T/C probe head for air and immersion/penetration measurement	-50 to +350 °C Short-term to +500 °C	Radio handle: $\pm (0.5 ^{\circ}\text{C} + 0.3\% \text{ of mv}) (-40 ^{\circ}\text{to} +500 ^{\circ}\text{C})$ $\pm (0.7 ^{\circ}\text{C} +0.5\% \text{ of mv}) (remaining range)$ T/C probe head: Class 2	0.1 °C (-50 to +199.9 °C) 1.0 °C (remaining range)	t ₉₉ (in water) 10 s
Country versions		Radio freq.	Part no.	
Radio handle for plug-in probe heads, incl. T/C adapter, approval for the countries: DK, FI, HU, CZ, PL, GR, CH, PT, SI, MT, CY, SK, LU, EE, LT, IE, LV, NO	DE, FR, UK, BE, NL, ES,	IT, SE, AT, 869.85 MHz FSK	0554 0189	
T/C probe head for air/immersion/penetration measurement, attachable to radio ha	ndle, T/C Type K		0602 0293	
Radio handle for plug-in probe heads, incl. T/C adapter, approval for USA, CA, CL T/C probe head for air/immersion/penetration measurement, attachable to radio ha	ndle, T/C Type K	915.00 MHz FSK	0554 0191 0602 0293	
Radio handles with probe head for surface measurement	Meas. range	Accuracy	Resolution	t ₉₉
with T/C probe head for surface measurement	-50 to +350 °C Short-term to +500 °C	Radio handle: $\pm (0.5 ^{\circ}\text{C} + 0.3\% \text{ of mv}) (-40 ^{\circ}\text{to} +500 ^{\circ}\text{C})$ $\pm (0.7 ^{\circ}\text{C} +0.5\% \text{ of mv}) (\text{remaining range})$ T/C probe head: Class 2	0.1 °C (-50 to +199.9 °C) 1.0 °C (remaining range)	5 s
Country versions		Radio freq.	Part no.	
Radio handle for plug-in probe heads, incl. T/C adapter, approval for the countries: DK, FI, HU, CZ, PL, GR, CH, PT, SI, MT, CY, SK, LU, EE, LT, IE, LV, NO	DE, FR, UK, BE, NL, ES,	IT, SE, AT, 869.85 MHz FSK	0554 0189	
T/C probe head for surface measurement, attachable to radio handle, T/C Type K			0602 0394	
Radio handle for plug-in probe heads, incl. T/C adapter, approval for USA, CA, CL T/C probe head for surface measurement, attachable to radio handle, T/C Type K		915.00 MHz FSK	0554 0191 0602 0394	

Radio handles, separate				
Radio handles for attachable T/C probes	Meas. range	Accuracy		Resolution
Radio handle for attachable probe heads incl. adapter for attaching T/C probes (Type K)	-50 to +1000 °C		% of mv) (-40 to +900 °C) % of mv) (remaining range)	0.1 °C (-50 to +199.9 °C) 1.0 °C (remaining range)
Country versions			Radio freq.	Part no.
Radio handle for plug-in probe heads, incl. T/C adapter, approval for the countries: DK, FI, HU, CZ, PL, GR, CH, PT, SI, MT, CY, SK, LU, EE, LT, IE, LV, NO	DE, FR, UK, BE, NL, ES	S, IT, SE, AT,	869.85 MHz FSK	0554 0189
Radio handle for plug-in probe heads, incl. T/C adapter, approval for USA, CA, CL			915.00 MHz FSK	0554 0191

Radio probes: G	eneral technical data						
Probe type	Radio immersion/penetration probe, NTC	Radio handle	Measuring rate	0.5 s or 10 s,	Radio transmission	n Unidirectional	
Battery type	2 x 3V button cell (CR 2032)	2 AAA micro batteries		adjustable on handle	Oper. temp.	-20 to +50 °C	
Battery life	150 h (meas. rate 0.5 s) 2 months (meas. rate 10 s)	215 h (meas. rate 0.5 s) 6 months (meas. rate 10 s)	D "	D. II	11 1 00 / "	Storage temp.	-40 to +70 °C
	2 monaro (modo, rato 10 0)	o montho (mode. rate 10 s)	Radio coverage	Up to 20 m (without obstructions)	Protection class	IP54	

testo 925

Fast-action spot check

Spot check thermometer - Fast and efficient

















thermometer with special probes

for hotels, industrial kitchens,

catering industry, supermarkets

- Robust immersion/penetration probe to monitor cooking processes or cooking oil temperature.
- Super-fast needle probe for temperature checks on thin goods such as hamburgers.
- Air probe for a fast temperature check e.g. in freezers.

An additional temperature probe can be displayed in the testo 925 measuring instrument; data transmission is by radio, i.e. wireless.

- Special probes for industrial kitchen sector
- 1 channel measuring instrument with optional radio probe
- Continuous display of max/min values
- Display light
- An audible alarm sounds when limit values are exceeded

testo 925

testo 925, 1 channel temperature measuring instrument T/C Type K, audible alarm, connection of an optional radio probe, with battery and calibration protocol

Part no. 0560 9250





TopSafe, indestructible case, protects from dirt and impact (option)

Practical monitoring during cheese storage, wireless, measurement data transmission via radio

Printer and Accessories	Part no.
Testo fast printer with wireless infrared interface, 1 roll thermal paper and 4 AA batteries	0554 0549
Spare thermal paper for printer (6 rolls), measurement data documentation legible for up to 10 years	0554 0568
Spare thermal paper for printer (6 rolls)	0554 0569
Lithium battery, button cell, type CR 2032 for wireless probes	0515 0028
Transport and Protection	Part no.
TopSafe, protects from impact and dirt	0516 0221
Case for measuring instrument and probes	0516 0210
Transport case for meas. instr. and probes (405 x 170 x 85 mm)	0516 0201
Transport case for measuring instrument, 3 probes and accessories (430 x 310 x 85 mm)	0516 0200
Calibration Certificates	Part no.
ISO calibration certificate/temperature, for air/immersion probes, calibration points -18°C; 0°C; +60°C	0520 0001
ISO calibration certificate/temperature, meas. instr. with surface probe; calibration points +60°C; +120°C; +180°C	0520 0071

Technical data	
Probe type	Type K (NiCr-Ni) or NTC if radio immersion/penetration probes are used
Meas. range	-50 to +1000 °C
Accuracy ±1 digit	$\pm (0.5$ °C +0.3% of mv) (-40 to +900 °C) $\pm (0.7$ °C +0.5% of mv) (remaining range)
Resolution	0.1 °C (-50 to +199.9 °C) 1 °C (remaining range)
Oper. temp.	-20 to +50 °C
Storage temp.	-40 to +70 °C
Battery type	9V block battery, 6F22
Battery life	200 h (connected probe, backlight off) 45 h (radio mode, backlight off) 68 h (connected probe, backlight always on) 33 h (radio mode, backlight always on)
Dimensions	182 x 64 x 40 mm
Weight	171 g

Immers./penetr. probes	Illustration			Meas. range	Accuracy	t99	Part no.
Waterproof food probe made of stainless		125 mm	30 mm	-60 to +400 °C	Class 2	7 s	0602 2292
steel (IP65), TC Type K	-	Ø 4 mm	Ø 3.2 mm				Conn.: Fixed cable
Robust food probe with special handle, IP	115 mm		30 mm	-60 to +400 °C	Class 1	6 s	0602 2492
65, reinforced cable (PUR), T/C Type K	Ø 5 mm	-	Ø 3.5 mm				Conn.: Fixed cable
Waterproof super-fast needle probe, highly accurate measurements without visible penetration hole.		150 mm	15 mm	-60 to +250 °C	Class 1	1s	0628 0026
Specially for food, ideal for hamburgers, steaks, pizza, eggs etc., T/C Type K	- (Januaria)) 1.4 mm	Ø 1 mm				Conn.: Fixed cable
Waterproof robust immersion/penetration probe with metal protection hose Tmax		240 mm		-50 to +230 °C	Class 1	15 s	0628 1292
+230°C, e.g. for monitoring temp. in cooking oil, T/C Type K	- would	Ø 4 mm					Conn.: Fixed cable



Suitable probes at a glance / Option: Radio

Illustration	Meas. range	Accuracy	t99	Part no.
© 60 mm	-50 to +230 °C	Class 2	45 s	0628 9992 Conn.: Fixed cable
Illustration	Meas. range	Accuracy	t99	Part no.
115 mm Ø 4 mm	-60 to +400 °C	Class 2	25 s	0602 1793 Conn.: Fixed cable
	E SE	-50 to +230 °C -50 to +230 °C Illustration Meas. range -60 to +400 °C	-50 to +230 °C Class 2 Class 2 -50 to +230 °C Class 2 -50 to +400 °C Class 2 -50 to +230 °C Class 2 -50 to +400 °C Class 2 -50 to	-50 to +230 °C Class 2 45 s Class 2 45 s Class 2 45 s Class 2 45 s Class 2 25 s Class 2 25 s

Radio module for upgrading measuring instrument with radio option		
Country versions	Radio freq.	Part no.
Radio module for measuring instrument, 869.85 MHz, approval for the countries: DE, FR, UK, BE, NL, ES, IT, SE, AT, DK, FI, HU, CZ, PL, GR, CH, PT, SI, MT, CY, SK, LU, EE, LT, IE, LV, NO	869.85 MHz FSK	0554 0188
Padio modulo for maggiring instrument, 015 00 MHz ECV, approval for LICA, CA, CI	015 00 MHz EQV	0554.0100

Radio handles with probe head for air-/ immersion-penetration-meas.		Meas. range	Accuracy		Resolution	t ₉₉
Radio handle for attachable probe heads with T/C probe head for air and immersion/penetration measurement	0 3,4 mm	-50 to +350 °C Short-term to +500 °C		of mv) (-40 to +500 °C) of mv) (remaining range) : Class 2	0.1 °C (-50 to +199.9 °C) 1.0 °C (remaining range)	t ₉₉ (in water) 10 s
Country versions				Radio freq.	Part no.	
Radio handle for plug-in probe heads, incl. T/C adapter, approval for the countrie DK, FI, HU, CZ, PL, GR, CH, PT, SI, MT, CY, SK, LU, EE, LT, IE, LV, NO			IT, SE, AT,	869.85 MHz FSK	0554 0189	
T/C probe head for air/immersion/penetration measurement, attachable to radio		e, I/C Type K			0602 0293	
Radio handle for plug-in probe heads, incl. T/C adapter, approval for USA, CA, C T/C probe head for air/immersion/penetration measurement, attachable to radio		e, T/C Type K		915.00 MHz FSK	0554 0191 0602 0293	
Radio handles with probe head for surface measurement		Meas. range	Accuracy		Resolution	t ₉₉
Radio handle for attachable probe heads with T/C probe head for surface measurement	M 40 mm 0 12 mm	-50 to +350 °C Short-term to +500 °C		of mv) (-40 to +500 °C) of mv) (remaining range) : Class 2	0.1 °C (-50 to +199.9 °C) 1.0 °C (remaining range)	5 s
Country versions				Radio freq.	Part no.	
Radio handle for plug-in probe heads, incl. T/C adapter, approval for the countric DK, FI, HU, CZ, PL, GR, CH, PT, SI, MT, CY, SK, LU, EE, LT, IE, LV, NO	es: DE	, FR, UK, BE, NL, ES,	IT, SE, AT,	869.85 MHz FSK	0554 0189	
Γ/C probe head for surface measurement, attachable to radio handle, T/C Type	K				0602 0394	
Radio handle for plug-in probe heads, incl. T/C adapter, approval for USA, CA, C	CL			915.00 MHz FSK	0554 0191	

Radio handles for attachable T/C probes	Meas. range	Accuracy		Resolution
Radio handle for attachable probe heads incl. adapter for attaching T/C probes (Type K)	-50 to +1000 °C		% of mv) (-40 to +900 °C) % of mv) (remaining range)	0.1 °C (-50 to +199.9 °C) 1.0 °C (remaining range)
Country versions			Radio freq.	Part no.
Radio handle for plug-in probe heads, incl. T/C adapter, approval for the countries DK, FI, HU, CZ, PL, GR, CH, PT, SI, MT, CY, SK, LU, EE, LT, IE, LV, NO	s: DE, FR, UK, BE, NL, ES	S, IT, SE, AT,	869.85 MHz FSK	0554 0189
Radio handle for plug-in probe heads, incl. T/C adapter, approval for USA, CA, CL			915.00 MHz FSK	0554 0191

Radio probes: General technical data							
Probe type	Radio immersion/penetration probe, NTC	Radio handle	Measuring rate	0.5 s or 10 s,	Radio transmission Unidirectional		
Battery type	2 x 3V button cell (CR 2032)	2 AAA micro batteries		adjustable on handle	Oper. temp20 to +50 °C		
Battery life	150 h (meas. rate 0.5 s)	215 h (meas. rate 0.5 s)	Radio coverage		Storage temp40 to +70 °C		
	2 months (meas. rate 10 s)	6 months (meas. rate 10 s)		Up to 20 m (without obstructions)	Protection class IP54		



Highly accurate alarm and logger thermometer - With site management



Monitoring food



Risk factor: Bacteria



health risks caused by bacteriological contamination of food. This risk becomes dangerous when a specified quantity of germs is exceeded. Bacterial growth relies on temperature!

Consumers may be exposed to



Measurements on non-frozen food



For fast and accurate measurements, the penetration probe must be inserted at least 5 times, better 10 times as deep as it is thick.

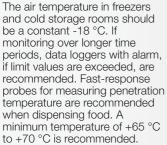


Measurements on frozen food



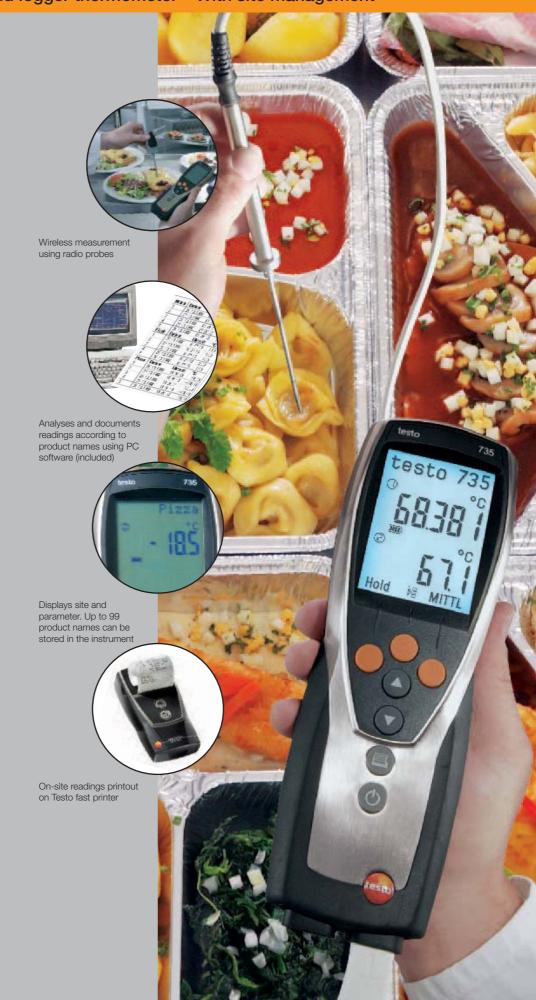
Use probes suitable for large pieces (e.g. screw-in frozen food probe) and insert sufficiently (min. 4 cm). In the case of flat products (e.g. pizza, fish), use probes with a thin or reinforced measurement tip.





Non-contact temperature measurement (screening test)

At greater distances, the ideal distance between measuring instrument and the object being measured is dependent on the optics of the infrared measuring instrument. Always measure the temperature of the packaging on packaged food; in the case of plastic seal packaging, only measure at points where the packaging comes into direct contact with the product. Major measurement errors occur if ice crystals or shiny, reflective surfaces are measured.



testo 735-2

The robust and compact measuring instrument with a probe socket for highly accurate Pt100 probes and two sockets for fast-action thermocouple probes. Readings from up to three additional temperature probes can be displayed in the testo 735-2 measuring instrument's clear display; data transmission is by radio, i.e. wireless. The measurement values can be simultaneously transferred to a PC and stored there. In this way, a total of 6 channels is recorded by the measuring instrument. A system accuracy of 0.05 °C with a resolution of 0.001 °C is reached using the plug-in highly accurate Pt100 immersion/penetration probe. The measuring instrument is therefore ideally suited for use as a working standard.

Temperature characteristics are recorded in the instrument and then analysed in graphics and tables on your PC/Notebook. Data is printed on site on the Testo fast printer using infrared.

testo 735-2

testo 735-2, 3 channel temperature measuring instrument T/C Type T/J/K/S/Pt100, audible alarm, connection for max. 3 optional radio probes, with data memory, PC software and USB data transmission cable, with battery and calibration protocol

Part no. 0563 7352

Selectable user profiles, i.e. allocation of specific function buttons to an application facilitate intuitive and fast operation. Individual protocols or measurement series can be stored according to site. Up to 99 sites can be stored in the instrument. The storage cycle is user-defined between 0.5 seconds and 24 hours.

- System accuracy up to 0.05 °C
- Instrument memory for up to 10,000 readings
- PC software for filing, analysing and documenting measurement data (included)
- Displays, saves and prints Delta T, min, max and mean values
- Audible alarm if limit values are exceeded
- Protection class IP65



Spot checks for frozen goods in refrigerated rooms





printout

Checks temperature when dispensing food; no annoying cables thanks to radio probes

Printer and Accessories	Part no.
Testo fast printer with wireless infrared interface, 1 roll thermal paper and 4 AA batteries	0554 0549
Spare thermal paper for printer (6 rolls), measurement data documentation legible for up to 10 years	0554 0568
Spare thermal paper for printer (6 rolls)	0554 0569
External fast charger for 1-4 AA rech. batteries, incl. 4 Ni-MH rech. batteries with individual cell charging and charge control display, incl. impulse trickle charging, integrated discharge function, with built-in international mains plug, 100-240 V, 300 mA, 50/60 Hz	0554 0610
Additional accessories	Part no.
Plug-in mains adapter, 5 VDC 500 mA with European adapter, 100-250 VAC, 50-60 Hz	0554 0447
Lithium battery, button cell, type CR 2032 for wireless probes	0515 0028

Transport and Protection	Part no.
Service case for basic equipment of measuring instrument and probes, dimensions: 400 x 310 x 96 mm	0516 0035
Service case for measuring instrument, probes and accessories, dimensions 520 x 380 x 120 mm	0516 0735
Calibration Certificates	Part no.
ISO calibration certificate/temperature, single point calibration for surface thermometer; calibration point +60°C	0520 0072
ISO calibration certificate/temperature, single point calibration for surface thermometer; calibration point +120°C	0520 0073
ISO calibration certificate/temperature, for air/immersion probes, calibration points -18°C; 0°C; +60°C	0520 0001
ISO calibration certificate/temperature, for air/immersion probes, calibration points -8°C; 0°C; +40°C	0520 0181



Suitable probes at a glance / Technical data















Immers./penetr. probes	Illustration		Meas. range	Accuracy	t99	Part no.
Waterproof standard immersion/penetration	112 mm	50 mm	-50 to +350 °C	±0.2 °C (-20 to +70 °C) Class 1 (remaining	7 s	0603 1293
probe, T/C Type T	Ø 5 mm	Ø 4 mm		range)		Conn.: Fixed cable
Waterproof precision immersion/penetration	70 mm	15 mm	-50 to +350 °C	±0.2 °C (-20 to +70 °C)		0603 2693
probe without visible penetration hole, T/C Type T	Ø 5 mm	Ø 1.5 mm		Class 1 (remaining range)		Conn.: Fixed cable
<u> </u>	125 mm	30 mm	-50 to +350 °C	±0.2 °C (-20 to +70 °C)	7 s	0603 2192
Stainless steel food probe (IP67) with PUR cable, T/C Type T	***************************************			Class 1 (remaining range)	. 0	Conn.: Fixed cable
	Ø 4 mm	Ø 3.2 mm				
Stainless steel food probe (IP67), with PTFE	125 mm	30 mm	-50 to +350 °C	±0.2 °C (-20 to +70 °C) Class 1 (remaining	7 s	0603 3392
cable to +250 °C, TC Type T	Ø 4 mm	Ø 3.2 mm		range)		Conn.: Fixed cable
Waterproof, super-quick needle probe for	150 mm		-50 to +250 °C	±0.2 °C (-20 to +70 °C)	2 s	0628 0027
measurements without visible penetration hole, T/C Type T	Ø 1.4 mm			Class 1 (remaining range)		Conn.: Fixed cable
	115 mm	00	-50 to +350 °C	±0.2 °C (-20 to +70 °C)	6 s	0603 2492
Robust food penetration probe with special handle, reinforced cable (PVC), T/C Type T	Ø 5 mm	30 mm		Class 1 (remaining range)	0 0	Conn.: Fixed cable
		Ø 3.5 mm				
Frozen food probe, corkscrew design, T/C	110 mm	30 mm	-50 to +350 °C	±0.2 °C (-20 to +70 °C) Class 1 (remaining	8 s	0603 3292
Type T	Ø 8 mm	Ø 4 mm		range)		Conn.: Plug-in cable
Quiel, peedle probe to manitar engling in	60 mm		-50 to +250 °C	±0.2 °C (-20 to +70 °C)	2 s	0628 0030
Quick needle probe to monitor cooking in oven, T/C Type T	Ø 1.4 mm			Class 1 (remaining range)		Conn.: Fixed cable
Measurement tip with T/C adapter Type T.	500 mm		-50 to +350 °C	Class 1	5 s	0628 0023
ideal for fast-action measurement on						
incoming goods	Ø 1.5 mm					
Laboratory probe Pt100, glass-coated, exchangeable glass pipe (Duran 50), resistant	200 mm	30 mm	-50 to +400 °C	Class A (-50 to +300 °C), Class B	45 s	0609 7072
to corrosive substances	Ø 6 mm	Ø 5 mm		(remaining range)		Conn.: Fixed cable
Highly accurate Pt100 immersion/penetration	295 mm		-40 to +300 °C	±0.05 °C (+0.01 to +100 °C)	60 s	0614 0235
probé incl. calibration protocol (test points 0 °C and +157 °C)	Ø 4 mm			±(0.05 °C +0.05% of mv) (remaining range)		Conn.: Fixed cable
Air probes	Illustration		Meas. range	Accuracy	t99	Part no.
	112 mm	50 mm	-50 to +350 °C	±0.2 °C (-20 to +70 °C)		0603 1793
Robust, affordable air probe, T/C Type T				Class 1 (remaining range)		Conn.: Fixed cable
	Ø 5 mm	Ø 4 mm			100	
Surface probes	Illustration		Meas. range	Accuracy	t99	Part no.
Waterproof surface probe with widened	112 mm	50 mm	-50 to +350 °C	±0.2 °C (-20 to +70 °C) Class 1 (remaining	30 s	0603 1993
measurement tip for flat surfaces, T/C Type T	T/C Type T Ø5 mm Ø6 r			range)		Conn.: Fixed cable

The measuring instrument inside TopSafe is waterproof with this probe.

Technical data							
Probe type*	Pt100	Pt100 with probe 0614 0235		Type K (NiCr-Ni)	Туре	e T (Cu-CuNi)
Meas. range	-200 to +800 °C	-40 to +300 °C		-200 to +	+1370 °C	-200) to +400 °C
Accuracy ±1 digit	±0.2 °C (-100 to +199.9 °C) ±0.2% of mv (remaining range)	See probe data			(-60 to +60 °C) + 0.3% of mv) g range)	±(0.2	3°C (-60 to +60°C) 2°C + 0.3% of mv) naining range)
Resolution	0.05 °C	0.001 °C (-40 to +199.999 °C) 0.01 °C (remaining range))	0.1 °C		0.1 °	°C
Probe type*	Type J (Fe-CuNi)	Type S (Pt10Rh-Pt)					
Meas. range	-200 to +1000 °C	0 to +1760 °C					
Accuracy ±1 digit	±0.3 °C (-60 to +60 °C) ±(0.2 °C + 0.3% of mv) (remaining range)	±1 °C					
Resolution	0.1 °C	1 °C					
Battery type	Alkali manganese, mignon, Type AA		Oper.	temp.	-20 to +50 °C		
Battery life	Approx. 300 h with TC probe		Storag	ge temp.	-30 to +70 °C		
	Approx. 250 h with Pt100 Approx. 60 h with 0614 0235		Dimer		220 x 74 x 46 mm		
Protection class	s IP65		Weigh	t	428 g		

^{*}Probe type NTC when using radio immersion/penetration probes



Option: Radio

Radio module for upgrading measuring instrument with radio option						
Country versions	Radio freq.	Part no.				
Radio module for measuring instrument, 869.85 MHz, approval for the countries: DE, FR, UK, BE, NL, ES, IT, SE, AT, DK, FI, HU, CZ, PL, GR, CH, PT, SI, MT, CY, SK, LU, EE, LT, IE, LV, NO	869.85 MHz FSK	0554 0188				
Radio module for measuring instrument, 915.00 MHz FSK, approval for USA, CA, CL	915.00 MHz FSK	0554 0190				

Radio immersion/penetration probes	Meas. range	Accuracy		Resolution	t ₉₉
Radio immersion/penetration probe, NTC	-50 to +275 °C	±0.5 °C (-20 to ±0.8 °C (-50 to ±0.8 °C (+80.1 ±1.5 °C (remai	-20.1 °C) to +200 °C)	0.1 °C	t ₉₉ (in water) 12 s
Country versions			Radio freq.	Part no.	
Radio immersion/penetration probe, NTC, approval for the countries: DE, FR, UK, CZ, PL, GR, CH, PT, SI, MT, CY, SK, LU, EE, LT, IE, LV, NO	BE, NL, ES, IT, SE, AT, DA	K, FI, HU,	869.85 MHz FSK	0613 1001	
Radio immersion/penetration probe, NTC, approval for USA, CA, CL			915.00 MHz FSK	0613 1002	

Assembled for you: Radio handles with probe head				
Radio handles with probe head for air-/ immersion-penetration-meas.	Meas. range	Accuracy	Resolution	t ₉₉
Radio handle for attachable probe heads with T/C probe head for air and immersion/penetration measurement	-50 to +350 °C Short-term to +500 °C	Radio handle: $\pm (0.5 ^{\circ}\text{C} + 0.3\% \text{of mv}) (-40 \text{to} + 500 ^{\circ}\text{C})$ $\pm (0.7 ^{\circ}\text{C} + 0.5\% \text{of mv}) (\text{remaining range})$ T/C probe head: Class 2	0.1 °C (-50 to +199.9 °C) 1.0 °C (remaining range)	t ₉₉ (in water) 10 s
Country versions		Radio freq.	Part no.	
Radio handle for plug-in probe heads, incl. T/C adapter, approval for the countries: DI DK, FI, HU, CZ, PL, GR, CH, PT, SI, MT, CY, SK, LU, EE, LT, IE, LV, NO	F, FR, UK, BE, NL, ES,	IT, SE, AT, 869.85 MHz FSK	0554 0189	
T/C probe head for air/immersion/penetration measurement, attachable to radio hand	le, T/C Type K		0602 0293	
Radio handle for plug-in probe heads, incl. T/C adapter, approval for USA, CA, CL T/C probe head for air/immersion/penetration measurement, attachable to radio hand	le, T/C Type K	915.00 MHz FSK	0554 0191 0602 0293	
Radio handles with probe head for surface measurement	Meas. range	Accuracy	Resolution	t ₉₉
Radio handle for attachable probe heads with T/C probe head for surface measurement	-50 to +350 °C Short-term to +500 °C	Radio handle: $\pm (0.5 ^{\circ}\text{C} + 0.3\% \text{of mv}) (-40 \text{to} + 500 ^{\circ}\text{C}) \\ \pm (0.7 ^{\circ}\text{C} + 0.5\% \text{of mv}) (\text{remaining range}) \\ \text{T/C probe head: Class 2}$	0.1 °C (-50 to +199.9 °C) 1.0 °C (remaining range)	5 s
Country versions		Radio freq.	Part no.	
Radio handle for plug-in probe heads, incl. T/C adapter, approval for the countries: DI DK, FI, HU, CZ, PL, GR, CH, PT, SI, MT, CY, SK, LU, EE, LT, IE, LV, NO T/C probe head for surface measurement, attachable to radio handle, T/C Type K	E, FR, UK, BE, NL, ES,	IT, SE, AT, 869.85 MHz FSK	0554 0189 0602 0394	
Radio handle for plug-in probe heads, incl. T/C adapter, approval for USA, CA, CL T/C probe head for surface measurement, attachable to radio handle, T/C Type K		915.00 MHz FSK	0554 0191 0602 0394	

Radio handles, separate				
Radio handles for attachable T/C probes	Meas. range	Accuracy		Resolution
Radio handle for attachable probe heads incl. adapter for attaching T/C probes (Type K)	-50 to +1000 °C		% of mv) (-40 to +900 °C) % of mv) (remaining range)	0.1 °C (-50 to +199.9 °C) 1.0 °C (remaining range)
Country versions			Radio freq.	Part no.
Radio handle for plug-in probe heads, incl. T/C adapter, approval for the countries: DK, FI, HU, CZ, PL, GR, CH, PT, SI, MT, CY, SK, LU, EE, LT, IE, LV, NO	E, FR, UK, BE, NL, ES	S, IT, SE, AT,	869.85 MHz FSK	0554 0189

Radio probes: General technical data								
Probe type	Radio immersion/penetration probe, NTC	Radio handle	Measuring rate 0.5 s or 10 s,		Radio transmission	n Unidirectional		
Battery type	2 x 3V button cell (CR 2032)	2 AAA micro batteries	Radio coverage	adjustable on handle	Oper. temp.	-20 to +50 °C		
Battery life	150 h (meas. rate 0.5 s) 2 months (meas. rate 10 s)	215 h (meas. rate 0.5 s) 6 months (meas. rate 10 s)		Dadia assume	Dadia assume		Storage temp.	-40 to +70 °C
	2 monaro (modo, rato 10 0)	o montho (mode. rate 10 s)		Up to 20 m (without obstructions)	Protection class	IP54		



Reference measuring instrument – With highest precision



















testo 950

Assuring quality means adhering to temperatures. The testo 950 precision measuring instrument can be used for frozen food temperatures to high oven temperatures. The measuring instrument combines user-friendly menu-driven operation and has a system accuracy of up to 0.05°C.

A readings memory for max. 500,000 readings is available for long-term measurement. All important parameters such as start and end of measurement, measurement intervals, limits exceeded/fallen short of and date/time can be programmed.

The saved measurement data can be analysed using PC software or printed on the Testo fast printer on site.

- System accuracy up to 0.05 °C and up to a resolution of 0.001 °C with precision probe 0614 0240
- System adjustment integrated in measuring instrument fast thermocouple probes can be adjusted to a reference value using the 0614 0240 precision probe.

testo 950

Reference temperature measuring instrument, incl. battery, Li cell and calibration protocol

Part no. 0563 9501



Monitoring the cooking temperature

Accessories for measuring instrument/Probes	Part no.
Rech. batt. set for instr. (2 rech. 2.4V/1100mAh), selected for quick recharging in instrument	0554 0196
Mains unit 230 V/8 V/1 A, for instrument (European plug), for mains operation and battery recharging	0554 1084
Car charging adapter, ready to measure following recharging in car, battery is recharged while travelling in car	0554 0424
Software and Accessories	Part no.
ComSoft 3 - Professional with data management, incl. database, analysis and graphics function, data analysis, trend curve	0554 0830
database, analysis and graphics function, data analysis, trend	0554 0830 0409 0178
database, analysis and graphics function, data analysis, trend curve RS232 cable, connects instrument to PC (1.8 m) for data	

Printer and Accessories	Part no.
Attachable printer (securely attached) including 1 roll of thermal paper and batteries	0554 0570
Testo fast printer with wireless infrared interface, 1 roll thermal paper and 4 AA batteries	0554 0549
SoftCase for instrument and printer	Part no.
SoftCase (protects instrument from impact) with carrier strap, magnetic holder and probe holder	0516 0401
SoftCase for attachable printer (protects printer from dirt/impact)	0516 0411
System case	Part no.
System case (plastic) for measuring instrument, probes and accessories, probes in lid make it easy to find parts in case	0516 0400

Description	Illustration			Meas. range	Accuracy	t99	Part no.
Highly accurate immersion/penetration probe incl. calibration protocol (test points 0 °C		295 mm Ø 4 mm	Stainless Steel	-40 to +300 °C	±0.05 °C (+0.01 to +100 °C) ±(0.05 °C ±0.05% of mv) (-40 to 0 °C) ±(0.05 °C ±0.05% of mv) (+100.01 to +300 °C)	60 s	0614 0240 Conn.: Plug-in head. connection cable 0430 0143 or 0430 0145 required
Super quick-action immersion/penetration probe for measurements in gases and liquids with a low-mass tip		150 mm Ø 1.4 mm	20 mm Ø 0.5 mm	-200 to +600 °C	Class 1	1 s	0604 9794 Conn.: Plug-in head. connectio cable 0430 0143 or 0430 0145 required
Robust immersion/penetration probe with sharpened measuring tip, waterproof and oven-proof	-01	150 mm Ø 3.5 mm	Ø 3 mm	-200 to +400 °C	Class A	30 s	0604 2573 Conn.: Fixed cable
Robust food probe with special handle, IP 65, reinforced cable (PUR), T/C Type K	115 mm Ø 5 mm		30 mm Ø 3.5 mm	-60 to +400 °C	Class 1 Please also order the 060 1693 T/C adapter	6 s	0602 2492 Conn.: Fixed cable
Super quick-action surface probe, probe tip at 90° angle, with sprung thermocouple strip	1	50 mm	Ø 10 mm	-200 to +300 °C	Class 2	3 s	0604 0994 Conn.: Plug-in head. connection cable 0430 0143 or 0430 0145 required
Stable, robust surface probe with PTFE standing area and metal protection hose Tmax +230 °C for cooking surfaces, heating and baking trays, T/C Type K	09 00 mm			-50 to +230 °C	Class 2 Please also order the 060 1693 T/C adapter	45 s	0628 9992 Conn.: Fixed cable
Precision air probe		150 mm © 3350	### Ø 9 mm	-100 to +400 °C	1/10 Class B (0 to 100°C) 1/5 Class B (rem. range) to EN 60751	75 s	0628 0017 Conn.: Plug-in head. connectic cable 0430 0143 or 0430 0145 required



Monitor ambient storage conditions - Efficiently and Accurately

testo 608-H1 /-H2

The affordable standard testo 608-H1 hygrometer measures humidity, temperature and dewpoint non-stop.

The efficient testo 608-H2 alarm hygrometer with LED alarm function for accurate signals when limits are exceeded.

- With dewpoint calculation td and Max/Min value display
- Humidity sensor unaffected by condensation

Display easily legible at a testo 608-H2 with LED alarm

Reliable monitoring of storage conditions in the food

Accessories Ordering data	Part no.
ISO calibration certificate humidity, Calibration points 11.3 %RH and 75.3 %RH at $\pm 25^{\circ}\text{C}$	0520 0006

testo 608-H1

Humidity/Dewpoint/Temperature measuring instrument incl. battery

Part no. 0560 6081

testo 608-H2 with alarm

Humidity/dewpoint/temperature measuring instrument, incl. LED alarm, battery and calibration protocol

Part no. 0560 6082

Technical data		testo 608-l	-11	testo 608-H2
Meas. range		+10 to +95 0 to +50 °C -20 to +50	;	+2 to +98 %RH -10 to +70 °C -40 to +70 °C td
Accuracy ±1 digit		±3 %RH (+10 to +95 %RH) ±0.5 °C (at +25 °C)		±2 %RH (+2 to +98 %RH) ±0.5 °C (at +25 °C)
Oper. temp.		0 to +50 °C		-10 to +70 °C
Resolution	0.1 %R	RH / 0.1 °C	Measuring rate	e 18 s
Storage temp.	-40 to -	+70 °C	Dimensions	120 x 89 x 40 mm
Battery life	8736 h	ı	Weight	168 g

Mini infrared thermometer - Pocket-size

testo 805

The infrared thermometer, which is only 80 mm in size, fits inside any pocket and is always ready at hand for fast measurements in Incoming Goods, for example. Also ideal for quick measurements when distributing food.

- High accuracy in a critical area for food
- Packaging remains undamaged
- TopSafe is dishwasher-proof
- Display of minimum and maximum values
- Scan mode for permanent measurement



Fast temperature measurement as you pass by

testo 805

Mini infrared thermometer and battery

Mini infrared thermometer, TopSafe and battery

Set for fast inspections

Part no. 0560 8051 Part no. 0563 8051

Accessories Ordering data	Part no.
TopSafe, robust, waterproof protection case (IP65)	0516 8051
ISO calibration certificate/Temperature, Infrared thermometers, calibration points 0°C, +60°C	0520 0452

Technical data			
Meas. range	-25 to +250 °C		
Accuracy ±1 digit	±3 °C (-25 to -21 °C) ±2 °C (-20 to -2.1 °C) ±1 °C (-2 to +40 °C)	±1.5 ° ±2% (C (+40.1 to +150 °C) of mv (+150.1 to +250 °C)
Resolution	0.1 °C (-9.9 to +199.9	°C) 1 °C	(remaining range)
Distance to measurement spot 1:1			
Emissivity	0.95 (adjustable to 0.95	5 or 1.00)	
Reaction time	⟨1.0 s	Dimensions	80 x 31 x 19 mm
Oper. temp.	0 to +50 °C	Weight	28 g
Storage temp.	-20 to +65 °C		







Temperature measurement - Non-contact



testo 826-T1

Non-contact and fast temperature monitoring of food, convenient and without damaging the packaging.



The thermometer has an additional laser sighting.



testo 826-T1

Infrared thermometer without sighting, with TopSafe and wall/belt holder

Part no. 0563 8261

testo 826-T2 with laser

Infrared thermometer with laser sighting and audible alarm, incl. TopSafe and wall/belt holder

Part no. 0563 8262

- High accuracy
- Wall/belt holder included
- Visual alarm testo 826-T1
- Audible alarm testo 826-T2
- 6:1 opening ratio (distance/spot diameter)
- Fast measurement without destroying packaging



testo 826-T2 with laser sighting and audible alarm

Temperature screening test on food e.g. in freezers, refrigerated storerooms etc.

Accessories Ordering data

ISO calibration certificate/temperature, Infrared thermometers, calibration points -18°C, 0°C, +60°C Part no. 0520 0401

Technical data		
Meas. range	-50 to +300 °C	
Accuracy ±1 digit	±1.5 °C (-20 to +100 °C) ±2 °C or 2% of mv (remain	ing range)
Resolution	0.5 °C	Storage temp40 to +70 °C
Oper. temp.	0 to +50 °C (826-T1)	-20 to +50 °C (826-T2)
Battery life	Approx. 150 h	Approx. 20 h (cont. oper.) (826-T2)

Temperature measurement - Non-contact or direct

testo 826-T3/-T4

Fast, non-contact measurement and core temperature measurement in one instrument. The surface temperature is measured with the infrared side while the penetration side can be used to measure the core temperature.

826-T4 also has a laser sighting and a reliable audible alarm.

- High accuracy
- Wall/belt holder included
- TopSafe case protects from impact, dirt and water
- Optical alarm testo 826-T3
- Audible alarm testo 826-T4
- 6:1 opening ratio (distance/spot diameter)



combination with TopSafe

testo 826-T4 with laser sighting and audible alarm



Ø 2 mm

Thin, robust measurement

Temperature screening test and core temperature

Technical data	Infrared thermometer	Contact thermometer
Meas. range	-50 to +300 °C	-50 to +230 °C
Accuracy ±1 digit	±1.5 °C (-20 to +100 °C) ±2 °C or 2% of mv (remaining range)	±0.5 °C (-20 to +99.9 °C) ±1 °C or 1% of mv (remaining range)
Resolution	0.5 °C	0.1 °C
Oper. temp.	0 to +50 °C (826-T3)	-20 to +50 °C (826-T4)



Infrared and contact thermometer with TopSafe, wall/belt holder, probe protection cap and drill for frozen food

Part no. 0563 8263

testo 826-T4 with laser

Infrared and contact thermometer with laser and alarm, TopSafe, wall/belt holder, protection cap, frozen food drill

Part no. 0563 8264

Accessories Ordering data

ISO calibration certificate/temperature, for air/immersion probes, calibration point -18°C Part no. 0520 0061

ISO calibration certificate/temperature, for air/immersion probes, calibration point 0°C

Part no. 0520 0062

ISO calibration certificate/temperature, for air/immersion probes, calibration points - 18°C; 0°C; +60°C
Part no. 0520 0001

ISO calibration certificate/temperature, Infrared thermometers, calibration points 18°C, 0°C, +60°C
Part no. 0520 0401

ISO calibration certificate/Temperature, Infrared thermometers, calibration points 0°C, +60°C

Part no. 0520 0452



Distance thermometer for infrared monitoring measurements

testo 831

Thanks to its 30:1 optics, the measuremet spot diameter is only 3.6 cm at a distance of 1 m. This means that even small objects such as yoghurt pots can be easily measured at a distance. Measurement errors are avoided due to a 2-point laser which indicates the exact measurement spot. At two measurements per second, the testo 831 is so fast that measurements on palettes or refrigerated shelves can be carrried out in seconds.

- Infrared thermometer with 30:1 optics
- Broad measurement range of -30 to +210 °C
- Backlit display
- Alarm limit values can be set and are optically and audibly indicated
- Including belt holder and factory calibration certificate
- Also available as a set with the core thermometer testo 106



Fast and easy checks on refrigerated displays

Set

In certain applications, it is necessary to carry out an additional core temperature measurement, or an additional core thermometer is required for measuring the temperature of food before serving. For this purpose, Testo offers an economical set consisting of testo 831 and the proven testo 106 core thermometer.



testo 831, infrared thermometer including belt holder, battery, instruction manual and factory calibration certificate with the measurement points -20 and +80 $^{\circ}\text{C}$

Part no. 0560 8310

Set with testo 831 and testo 106

Set testo 831 and testo 106 - Infrared thermometer including belt holder, battery, instruction manual and factory calibration certificate with the measurement points -20 and +80 °C, and penetration thermometer testo 106 including TopSafe, belt holder, battery and instruction manual

Part no. 0563 8310



Set consisting of: testo 831 and the core thermometer testo 106

Accessories Ordering data	Part no.
9V rech. battery for instrument, instead of battery	0515 0025
Recharger for 9V rechargeable battery, for external recharging of 0515 0025 battery	0554 0025
ISO calibration certificate/temperature, Infrared thermometers, calibration points -18°C, 0°C, +60°C	0520 0401
ISO calibration certificate/Temperature, Infrared thermometers, calibration points 0°C, +60°C	0520 0452

testo 831: 2-point laser for mearking measurement spot
Ø 16 mm Ø 16 mm Ø 18 mm 700 mm 1500 mm 2000 mm

Technical data			
Meas. range	-30 to +210 °C		
Spectral range	8 to 14 μm		
Accuracy ±1 digit	\pm 1,5 °C or \pm 1,5% of mv (-20 to +210 °C) \pm 2 °C or \pm 2% of mv (remaining range)		
Resolution	0,5 °C		
Meas. spot marking	2-point laser		
Distance to measurement spot	30:1		
Emissivity	Adjustable 0.2 to 1.0		
Oper. temp.	-20 to +50 °C		
Storage temp.	-40 to +70 °C		
Display	Illuminated LCD		
Protection class	IP30		
Dimensions	190 x 75 x 38 mm		
Weight	200 g		
Technical data testo 106 see page 10			

Technical data testo 106 see page 10

testo

testo 845 - the infrared measurement technology for temperature with integrated humidity module











For the first time, surface temperatures with smallest diameters can be measured accurately at short and long distances. The switchable optics for far-field and close focus measurement make this possible. Measurements in the far-field are made with an optical resolution of 75:1. Surface temperatures can thus be measured accurately even at greater distances from the object to be measured. At a distance of 1.2 metres from the object, the measurement point diameter is only 16 mm. A cross laser marks the measurement point exactly.

For measurements at a small distance from the object to be measured, the close focus optics provide a measurement point diameter of only 1 mm at a distance of 70 mm! Two laser points mark the measurement point.

- Switchable optics for far-field measurements (75:1) and close focus (1 mm, 70 mm distance)
- Especially bright cross laser sighting for indicating the actual measuring point
- Reference accuracy ± 0.75 °C with super-fast measurement technololgy (scanning 100 ms)
- Backlit display (3-line) showing °C, min./max. values, alarm limit values and degree of emission
- Optical and audible alarm when limit values are exceeded
- Instrument memory for 90 measurement protocols
- PC software for archiving and documenting measurement data (included in delivery)
- Tripod fitting for online measurement via USB cable (included in delivery)





Infrared Thermometer with Switchable Optics (far-field/close focus)

testo 845

testo 845, infrared temperature measuring instrument with cross laser marking and switchable optics for far-field and close focus measurement, incl. PC software with USB data transfer cable, aluminium case, battery and calibration protocol

Part no. 0563 8450

testo 845 with integrated humidity module

testo 845, infrared temperature measuring instrument with cross laser sighting incl. humidity module, switchable optics for far-field and close focus measurement, contact temperature probe attachable, optical/audible alarm, reading memory, PC software incl. USB data transfer cable, aluminium case, battery and calibration protocol

Part no. 0563 8451



Secure measurement, even of small products, in Incoming Goods

Description			Meas. range	Part no.
I	Fast-action surface probe with sprung thermocouple strip, also for uneven surfaces, measurement range short-term to +500°C, To Type K		-60 to +300 °C	0602 0393
ı	-	115 mm		
п	-	Ø 5 mm		
I	Robust air probe, T/C Type K		-60 to +400 °C	0602 1793
ı		0 4 mm		

Accessories Ordering data	Part no.
Humidity module, upgradeable for testo 845 (0563 8450)	0636 9784
Plug-in mains adapter, 5 VDC 500 mA with European adapter, 100-250 VAC, 50-60 Hz	0554 0447
External fast charger for 1-4 AA rech. batteries, incl. 4 Ni-MH rech. batteries with individual cell charging and charge control display, incl. impulse trickle charging, integrated discharge function, with built-in international mains plug, 100-240 V, 300 mA, 50/60 Hz	0554 0610
Testo fast printer with wireless infrared interface, 1 roll thermal paper and 4 AA batteries, for printing out measurements on site	0554 0549
Spare thermal paper for printer (6 rolls), measurement data documentation legible for up to 10 years	0554 0568
testo saline pots for control and humidity adjustment of humidity probes, 11.3 %RH and 75.3 %RH with adapter for humidity probe	0554 0660
Adhesive tape, e.g. for bare surfaces (roll, L.: 10 m, W.: 25 mm), E = 0.95, temperature resistant to +250 $^{\circ}$ C	0554 0051
Silicone heat paste (14g), Tmax = +260°C, improves heat transfer in surface probes	0554 0004
ISO calibration certificate/temperature, infrared thermometer; calibration points +60°C; +120°C; +180°C	0520 0002
ISO calibration certificate/temperature, Infrared thermometers, calibration points -18°C, 0°C, +60°C	0520 0401

Far-field measurement						
Ø 279 mm Ø 130 mm Ø 16 mm Ø 20 mm 1200 mm 10000 mm						

Technical data							
-35 Accuracy ±2.5 ±1 digit ±1.5 ±0.73		ared to +950 °C	Contact (type K) -35 to +950 °C	Humidity module 0 to +100 %RH 0 to +50 °C -20 to +50 °C td			
		°C (-35 to -20.1 °C) °C (-20 to +19.9 °C) 5 °C (+20 to +99.9 °C) 5% of mv (+100 to) °C)	± 0.75 °C (-35 to +75 °C) $\pm 1\%$ of mv (+75.1 to +950 °C)	±2 %RH (2 to 98 %RH) ±0.5 °C (+10 to +40 °C) ±1 °C (remaining range)			
Resolution	0.1	°C	0.1 °C	0.1 °C td			
Emission factor Optical resolution Measuring rate Dimensions Battery type		Adjustable 0.1 to 1.0					
		Far-field: (75:1) Ø 16 mm at a distance of 1200 mm (90%) Close focus: Ø 1 mm, at a distance of 70 mm (90%)					
		t95: 250 ms; Scanning Max/Min/Alarm: 100 ms					
		155 x 58 x 195 mm					
		2 AA batteries					
Battery life		25 h (without laser), 10 h (with laser without light), 5 h (with laser and 50% light)					
Material/Housing		ABS Black/gray, metal screen					
Oper. temp. Storage temp.		-20 to +50 °C					
		-40 to +70 °C					

Close focus measurement



Switch to far-field measurement at a measurement distance > 250 mm.











testo Saveris™ - Measurement data monitoring in the food industry















In restaurants, food retail and in large kitchens, the cold chain must be guaranteed at all times. In order to keep foodstuffs fresh and to adhere to hygiene requirements, the uninterrupted documentation of the cold chain is necessary. testo Saveris provides optimum support here.

testo Saveris automates the monitoring of the cooling chain and thus provides you with security and time savings.

Should a limit value be exceeded, testo Saveris immediately issues an alarm. Various alarm options can be set based on your wishes. You thus receive not only uninterrupted documentation, but also will be informed immediately if the temperatures are outside the prescribed range.

Conforms to important standards in the food industry (HACCP and

EN 12830)

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)







Saveris set

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 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 2.4 GHz

Part no. 0572 0150













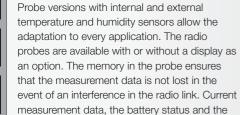




testo Saveris™ System overview



testo Saveris radio probe



quality of the radio link are shown in the display.

testo Saveris router

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.















testo Saveris analog coupler (Wireless)

testo Saveris analog coupler

The analog coupler allows the inclusion of further measurement parameters into the testo Saveris monitoring system, by integrating all transmitters with standardized current/voltage interfaces, e. g. 4 to 20 mA or 0 to 10 V.



testo Saveris™ System overview

testo Saveris base

Ethernet

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. The system data and alarms are visible via the display of the Saveris base.

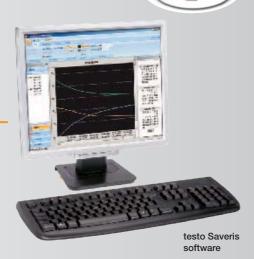
testo Saveris software

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



USB or Ethernet





Overview of software versions	SBE	PROF	CFR	
Simple installation and configuration	•	•	•	
Diagrams / tables / alarm overview / PDF reports	•	•	•	
Calendar management	•	•	•	
Representation of probe groups	•	•	•	
Transmission of alarms (e-mail, SMS, relay)	•	•	•	
Comprehensive alarm management		•	•	
Automatic refresh of measurement data ("Online mode")		•	•	
Measurement data on background photo of locations		•	•	
Integration into network (client server)		•	•	
Allocation of access rights to probe groups		•	•	
Conform to 21CFR11 (validatable)			•	
Electronic signature			•	
Audit trail			•	
Allocation of access rights on 3 user levels			•	



















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.















		internal E F -4G	internal E externa	E externa	external &	
Ra	adio	Saveris T1	Saveris T2	Saveris T3	Saveris Pt	
		Radio probe with internal NTC	Radio probe with external probe connection and internal NTC, door contact	2-channel radio probe with 2 external TC probe connections (Choice of TC characteristics)	Radio probe with 1 external Pt100 probe connection	
ISOL	Probe type	NTC	NTC			
sen	Meas. range	-35 to +50 °C	-35 to +50 °C			
Internal sensor	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)			
	Resolution	0.1 °C	0.1 °C			
	Probe type		NTC	TC type K TC type J	Pt100	
	Meas. range (Instrument)		-50 to +150 °C	-195 to +1350 °C -100 to +750 °C	-200 to +600 °C	
ape				TC type T TC type S		
Pro l	A (1 t t)		.0000 (05 +7000)	-200 to +400 °C 0 to +1760 °C	-+ OF 00	
External probe	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 (Instrument)		0.1 °C	0.1 °C / TC type S 1 °C	0.01 °C	
Cor	nn.		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	
Din	nensions (housing):		80 x 85	x 38 mm		
We	ight		Approx	c. 240 g		
	tery life pe: 4 AA batteries)	Battery life	e at +25 °C, 3 years; for freezer application	ns, 3 years with L91 Photo lithium Energize	er batteries)	
Ma	terial/Housing		Pla	stic		
Pro	tection class	IP	68	IP54 IP68		
	lio frequency	868 MHz		3 MHz / 2.4 GHz		
	asuring rate	Standard 15 min, 1 r		nin to 24 h can be set		
	nformity with standards		112830			
_	er. temp.	-35 to	+50 °C		+50 °C	
	rage temp.			+55 °C		
	play (optional) nsmission distance	approv	LCD, 2 lines; 7-seç 300 m free field at a frequency of 868 MHz	ment with symbols	of 2.4 GHz	
	Il bracket	арргох.		r, approx. 100 in free field at a frequency t uded	11 2.4 UHZ	
wa	II DIQUNGE		IIICI	uucu		

Ordering data Wireless probes	Part no.	Part no.	Part no.	Part no.
	Version without display	Version without display		
	868 MHz	2.4 GHz	868 MHz	2.4 GHz
Saveris T1 Radio probe with internal NTC	0572 1110	0572 1150	0572 1120	0572 1160
Saveris T2 Radio probe with external probe connection and internal NTC, door contact	0572 1111	0572 1151	0572 1121	0572 1161
Saveris T3 2-channel radio probe with 2 external TC probe connections (Choice of TC characteristics)	0572 9112	0572 9152	0572 9122	0572 9162
Saveris Pt Radio probe with 1 external Pt100 probe	0572 7111	0572 7151	0572 7121	0572 7161

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.



testo Saveris™ Components: Radio probes

				°C/°F	and %RH			mA and V
. ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` `		%RH NTC external		%RH NTC internal	รัช 28.	%RH NTC external		mA V internal
Rs	dio	Saveris H2D		Saveris H3		Saveris H4D		Saveris U1
nc	uio							
		Wireless humidity p	robe	Humidity radio prob	oe	probe connection	h 1 external humidity	Wirelss probe with current/ voltage output
	Probe type			NTC	Humidity sensor			1 channel: current/voltage input
nsor	Meas. range			-20 to +50 °C	0 to 100 %RH			2-wire: 4 to 20 mA, 4-wire: 0/4 to 20 mA, 0 to 1/5/10 V, load: max. 160 Ω at 24 V DC
Internal sensor	Accuracy			±0.5 °C	±3 %RH			Current ± 0.03 mA $/ 0.75$ μ A Voltage 0 to 1 V ± 1.5 mV/39 μ V Voltage 0 to 5 V ± 7.5 mV $/ 0.17$ mV Voltage 0 to 10 V ± 15 mV $/ 0.34$ mV ± 0.02 % of. m.v./K deviating from nominal temperature 22 °C
	Resolution			0.1 °C	0.1 °C / 0.1 °C td		,	
	Probe type	NTC	Humidity sensor			NTC	Humidity sensor	
ope	Meas. range (Instrument)	-20 to +50 °C	0 to +100 %RH*			-20 to +70 °C	0 to +100 %RH*	
External probe	Accuracy (Instrument)	±0.5 °C	to 90 %RH: ±2 %RH > 90 %RH: ±3 %RH			±0.2 °C	see probes	
	Resolution (Instrument)	0.1 °C	0.1% / 0.1 °C td			0.1 °C	0.1% / 0.1 °C td	
Con	n.	non-exchangeable	stump probe			1 x external humid socket	ity probe mini DIN	2 or 4-wire current/ voltage output
								Service interface mini DIN for adjustment
	ensions (housing):		x 38 mm			x 38 mm		Approx. 85 x 100 x 38 mm
Wei		Approx	a. 256 g		Appro	x. 245 g		Approx. 240 g
(Тур	ery life e: 4 AA batteries)	Battery lif	e at +25 °C, 3 years; f	years; for freezer applications, 3 years with L91 Prioto numbril Energizer datteries)		Supply: Mains unit 6.3 V DC, 2 to 30 V DC max. 25 V AC		
	erial/Housing	I	54	IC	P42	astic	ID	54
	ection class io frequency	IF	J 4	IF		z / 2.4 GHz	IP	J4
	suring rate		Standard 15 min, 1 min to 24 h can be set					
	r. temp.					+50 °C		
	age temp.					+55 °C		
	lay (optional)					(no display)		
	smission distance							
Wal	bracket				incl	luded		

*not for continuous high-humidity applications

Ordering data Wireless probes	Part no.	Part no.	Part no.	Part no.
	Version without display		Version with display	
	868 MHz	2.4 GHz	868 MHz	2.4 GHz
Saveris H3Wireless probe with internal humidity sensor	0572 6110	0572 6150	0572 6120	0572 6160
Saveris H2D Wireless probe with external humidity sensor 2%RH, radio frequency 868 MHz (with display)			0572 6122	0572 6162
Saveris H4D Wireless humidity probe with external probe connection, radio frequency 868 MHz (with display)			0572 6124	0572 6164
Saveris U1Analog coupler with 1 current/voltage output (order mains unit separately)	0572 3110	0572 3150		

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.



















testo Saveris™ Components: Base, Router, Converter and accessories





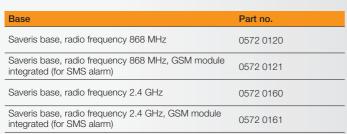












No mains units or aerials with magnetic base are contained in this ordering data.

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 Energizer L91 Photo lithium)	0515 0572
100-240 V AC / 6.3 V DC international mains unit for mains operation or battery charging in instrument	0554 1096
Mains unit (top-hat rail mounting) 90 to 264 VAC/24 VDC (2.5 A)	0554 1749
Mains unit (desk-top) 110 to 240 VAC/24 VDC (350mA)	0554 1748

Other features	Part no.
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
Alarm module (visual + acoustic), can be connected to	0572 9999
base alarm relay, \emptyset 70 x 164 mm, 24 V AC/DC / 320 mA, perm. light: red, perm. tone: buzzer approx. 2.4 kH (Mains unit 0554 1749 required)	Z ID-Nr. 0699 6111/1
Progamming adapter (from mini-DIN to USB) for Ethernet probe and converter (necessary if no DHCP server available)	0440 6723

Saveris router	Part no.
Saveris router, 868 MHz, radio transmission medium	0572 0119
Saveris router, 2.4 GHz, radio transmission medium	0572 0159
Saveris converter	Part no.
Saveris converter, 868 MHz, converts the radio transmission medium to Ethernet	0572 0118
Saveris converter, 2.4 GHz, converts the radio transmission medium to Ethernet	0572 0158

No mains	units are	contained in	n this	ordering	data.
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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 PC to Base	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; calibration points -8 °C; 0 °C; +40 °C per channel/instrument (suitable for Saveris T1/T2)	0520 0171
ISO calibration certificate/temperature Temperature probes; calibration points -18 °C; 0 °C; +60 °C; per channel/instrument (not suitable for Saveris T1/T2)	0520 0151
DAkkS calibration certificate/Temperature* Temperature probes; calibration points -20 °C; 0 °C; +60 °C; per channel/instrument (not suitable for 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 11.3 %RH and 75.3 %RH at +25 °C; per channel/instrument	0520 0246

^{*}Successor organization of the DKD

Alarm module



Alarm module (visual + acoustic), can be connected to base alarm relay, Ø 70 x 164 mm, 24 V AC/DC / 320 mA, perm. light: red, perm. tone: buzzer approx. 2.4 kHz (Mains unit 0554 1749 required) ID-Nr. 0699 6111/1

Part no. 0572 9999

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 PC to Base

Part no. 0572 0182

Sintered caps for probes Saveris H1 E, H2 E and H2 D	Illustration	Part no.
Metal protective cap (open), fast reaction time at flow velocities \langle 7 m/s (not suitable for dusty atmospheres), for measurement in flow velocities of less than 10 m/s		0554 0755
Stainless steel sintered filter, pore size 100 µm, probe protection in dusty atmospheres or higher flow velocities, for measurements at higher flow velocities or in contaminated air		0554 0647
Wire mesh filter, probe protection from coarse particles		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 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™ Technical data



Technical data	
	Saveris-Base
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 \langle 4 W
Rech. batt.	Li-ion battery (for data back-up and for emergency 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 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 un	Table base and wall bracket included



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, POE, power consumption < 2 W Oper. temp. -20 to +50 °C -20 to +50 °C Storage temp. -40 to +60 °C -40 to +60 °C Material/Housing Plastic Plastic Protection class IP54 IP54 Interfaces Radio Radio, Ethernet Connectable radio probe max. 5 max. 15 Wall bracket included included	Technical data					
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, PoE, power consumption < 2 W Oper. temp. -20 to +50 °C -20 to +50 °C Storage temp. -40 to +60 °C -40 to +60 °C Material/Housing Plastic Plastic Protection class IP54 IP54 Interfaces Radio Radio, Ethernet Connectable radio probe max. 5 max. 15		Saveris router	Saveris converter			
Power supply 6.3 V DC mains unit; alternatively via 24 V AC/DC plug-in/screw terminals, power consumption ⟨ 0.5 W Oper. temp. -20 to +50 °C -20 to +50 °C Storage temp. -40 to +60 °C Material/Housing Plastic Protection class IP54 Interfaces Radio Radio, Ethernet Connectable radio probe Radio max. 5 G.3 V DC mains unit; alternatively via 24 V AC/DC plug-in/screw terminals, power consumption ⟨ 2 W -20 to +50 °C -20 to +50 °C -40 to +60 °C Plastic Protection class IP54 Radio Radio, Ethernet max. 15	Dimensions	Approx. 85 x 100 x 38 mm	Approx. 85 x 100 x 35 mm			
alternatively via 24 V AC/DC plug-in/screw terminals, power consumption ⟨ 0.5 W Oper. temp. -20 to +50 °C -20 to +50 °C Storage temp. -40 to +60 °C Material/Housing Plastic Protection class IP54 Interfaces Radio Radio, Ethernet Connectable radio probe alternatively via 24 V AC/DC plug-in/screw terminals, POE, power consumption ⟨ 2 W Plug-in/screw terminals, POE, power consumption ⟨ 2 W Plug-in/screw terminals, POE, power consumption ⟨ 2 W Posterior C Plastic Protection class IP54 Radio Radio, Ethernet max. 15	Weight	Approx. 180 g	Approx. 190 g			
Storage temp. -40 to +60 °C -40 to +60 °C Material/Housing Plastic Plastic Protection class IP54 IP54 Interfaces Radio Radio, Ethernet Connectable radio probe max. 5 max. 15	Power supply	alternatively via 24 V AC/DC plug-in/screw terminals,	alternatively via 24 V AC/DC plug-in/screw terminals,PoE,			
Material/Housing Plastic Plastic Protection class IP54 IP54 Interfaces Radio Radio, Ethernet Connectable radio probe max. 5 max. 15	Oper. temp.	-20 to +50 °C	-20 to +50 °C			
Protection class IP54 IP54 Interfaces Radio Radio, Ethernet Connectable radio probe max. 5 max. 15	Storage temp.	-40 to +60 °C	-40 to +60 °C			
Interfaces Radio Radio, Ethernet Connectable radio probe max. 5 max. 15	Material/Housing	Plastic	Plastic			
Connectable radio probe max. 5 max. 15	Protection class	IP54	IP54			
·	Interfaces	Radio	Radio, Ethernet			
Wall bracket included included	Connectable radio probe	max. 5	max. 15			
	Wall bracket	included	included			



















testo Saveris™ Accessories: External temperature probes

















Pt100	Plug-in probes	Illustration			Meas. range	Accuracy	t99	Part no.
Robust F	Pt100 stainless steel food probe (IP65)		125 mm	15 mm	-50 to +400 °C	Class A (-50 to +300 °C), Class B (remaining range)	10 s	0609 2272 Conn.: Fixed cable
Tiobast, i	troe stanness steel lood probe (ii se)	7.	Ø 4 mm	Ø 3 mm				Conn.: Fixed cable
A Robust, v	waterproof Pt100 immersion/penetration		114 mm	50 mm	-50 to +400 °C	Class A (-50 to +300 °C), Class B (remaining range)	12 s	0609 1273
probe	·	<u>(</u>	Ø 5 mm	Ø 3.7 mm		olabo b (formali ling range)		Conn.: Fixed cable
Connecti	Connection cable for unlimited Pt100 stationary probes with screw terminals (4-wire technology), max. cable length: 20 m					0554 0213		

TC Plug-in probes	Illustration	Meas. range	Accuracy	t99	Part no.
Stationary probe with stainless steel sleeve, TC Typ	40 mm	-50 to +205 °C	Class 2*	20 s	0628 7533 Conn.: Fixed cable 1.9 m
K	Ø 6 mm				Conn.: Fixed cable 1.9 III
Robust air probe, T/C Type K	115 mm	-60 to +400 °C	Class 2*	25 s	0602 1793
,	Ø 4 mm				Conn.: Fixed cable 1.2 m
Magnetic probe, adhesive force approx. 20 N, with magnets, for measurements on metal surfaces, TC Type K	35 mm Ø 20 mm	-50 to +170 °C	Class 2*	150 s	0602 4792 Conn.: Fixed cable
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	-50 to +400 °C	Class 2*		0602 4892 Conn.: Fixed cable 1.6 m
Thermocouple with TC adapter, flexible, 800mm	800 mm	-50 to +400 °C	Class 2*	5 s	0602 0644
long, fibre glass, TC Type K	Ø 1.5 mm				
Thermocouple with TC adapter, flexible, 1500mm	1500 mm	-50 to +400 °C	Class 2*	5 s	0602 0645
long, fibre glass, TC Type K	Ø 1.5 mm				
Thermocouple with TC adapter, flexible, 1500mm	1500 mm	-50 to +250 °C	Class 2*	5 s	0602 0646
long, PTFE, TC Type K	Ø 1.5 mm				
Immersion tip, flexible, TC Type K	500 mm	-200 to +1000 °C	Class 1*	5 s	0602 5792
initional up, liexible, 10 type K	Ø 1.5 mm				
Immersion measurement tip, flexible, for measurements in air/exhaust gases (not suitable for measurements in smelters), TC Type K	0 3 mm	-200 to +1300 °C	Class 1*	4 s	0602 5693

*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).

N	Plug-in probes	Illustration		Meas. range	Accuracy	t99	Part no.
Ţ	Stub probe, IP 54	35 mm		-20 to +70 °C	±0.2 °C (-20 to +40 °C) ±0.4 °C (+40.1 to +70 °C)	15 s	0628 7510
ľ	Stub probe, in 34	Ø 3 mm			, , , , , , , , , , , , , , , , , , ,		
1	Stationary probe with aluminium sleeve, IP 65	40 mm		-30 to +90 °C	±0.2 °C (0 to +70 °C) ±0.5 °C (remaining range)	190 s	0628 7503*
ľ	Stationally probe with authinium sleeve, in 65	Ø 6 mm			3 3 3 4		Conn.: Fixed cable 2.4 m
1	Assume to lower (see a market One seekle ID 07	40 mm		-35 to +80 °C	±0.2 °C (-25 to +74.9 °C) ±0.4 °C (remaining range)	5 s	0610 1725*
ľ	Accurate imm./pen. probe, 6m cable, IP 67	Ø 3 mm	Ø 3 mm		3 4 34,		Conn.: Fixed cable 6 m
1	Accurate immersion/penetration probe, cable: 1.5 m	40 mm		-35 to +80 °C	±0.2 °C (-25 to +74.9 °C) ±0.4 °C (-35 to -25.1 °C)	5 s	0628 0006*
ľ	long, IP 67	Ø 3 mm	Ø 3 mm		±0.4 °C (+75 to +80 °C)		Conn.: Fixed cable 1.5 m
	Wall surface temperature probe, e.g. to prove			-50 to +80 °C	±0.2 °C (0 to +70 °C)	20 s	0628 7507
ı	damage in building material						Conn.: Fixed cable 3 m
1	Stainless steel NTC food probe (IP65) with PUR	125 mm	15 mm	-50 to +150 °C ²⁾	±0.5% of mv (+100 to +150 °C) ±0.2 °C (-25 to +74.9 °C)	8 s	0613 2211*
1	cable	Ø 4 mm	Ø 3 mm		±0.4 °C (remaining range)		Conn.: Fixed cable 1.6 m
	Wetausus of NTC immersion /s as stration and s	115 mm	50 mm	-50 to +150 °C	±0.5% of mv (+100 to +150 °C) ±0.2 °C (-25 to +74.9 °C)	10 s	0613 1212
	Waterproof NTC immersion/penetration probe	obe Ø5 mm Ø			±0.4 °C (remaining range)		Conn.: Fixed cable 1.2 m

 $^{^{\}star}$ Probe tested to EN 12830 for suitability in the transport and storage sectors

²⁾ Long-term meas. range +125°C, short-term +150°C (2 minutes)

%RH	Plug-in probes	Illustration		Meas. range	Accuracy	Part no.
Humidity	/ Temperature Probe 12mm	- u	Ø 12 mm	-20 to +70 °C, 0 to +100 %RH		0572 6172
Humidity	/ Temperature Probe 4 mm	9 3	Ø 4 mm	0 to +40 °C, 0 to +100 %RH	±0,3 °C, ±2 %RH (2 to 98 %RH)	0572 6174

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



testo Saveris™ Examples of applications



Temperature monitoring in specialist retailers and large-scale kitchens

The measurement data is saved centrally and can thus be called up at any time. It goes without saying that the testo Saveris conforms to the food standard EN 12830. Using this uninterrupted documentation that testo Saveris offers, you always play it safe when it comes to monitoring of your temperatures.

















Easiest operation of testo Saveris

Sabine Steinbrunner, proprietor of food product market

"I was very pleasantly surprised at how easy the installation and operation were."





Documentation and issuing alarms in bakeries and butcher shops

The uninterrupted monitoring of the cooling chain is required for food specialist retailers.

Fresh goods are required by the customer but are at the same time required by the legislation in the hygiene area.

testo Saveris automates the monitoring of the ambient and product temperatures in store rooms, cold rooms, freezer areas and cooled sales counters. Naturally an alarm is issued immediately whenever a limit value is exceeded, on site as well as remotely.



Automatic monitoring of the cooling chain saves time

Werner Schmidt, proprietor of butcher's shop 'Metzgerei Haller'

"With testo Saveris the temperature monitoring of the food practically runs itself. Now I have more time for the customers!"





Data loggers - Log, save, print and analyse



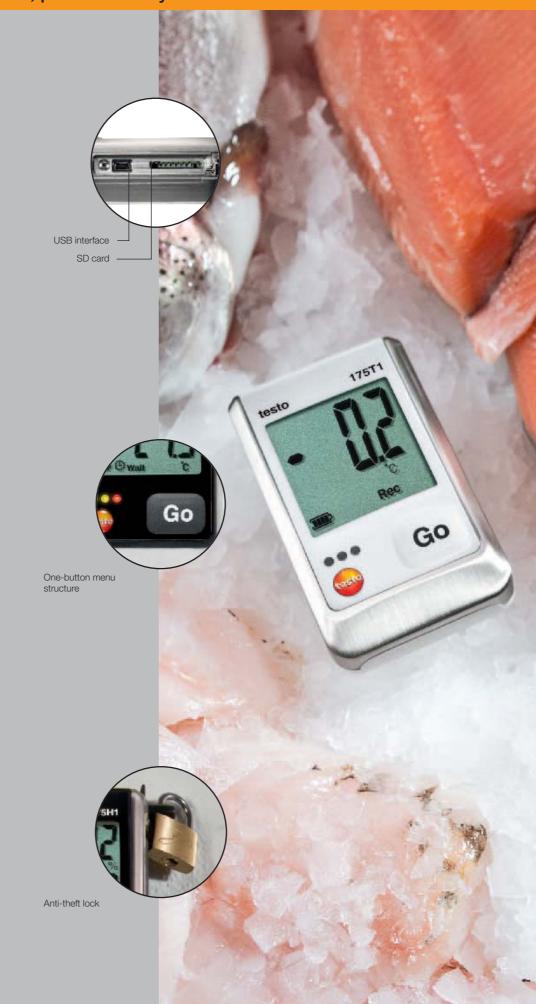




A high level of user-friendliness and absolute security characterize the new generation of Testo data loggers. With the current range of a total of 13 data loggers, Testo offers the right solution for various applications. In addition to the eleven new instruments from the testo 175 and testo 176 series , it also includes the two mini data loggers testo 174T and testo 174H.

The testo 175 series consists of four compact data loggers for the measurement of temperature and humidity. The testo 176 series contains seven data loggers which are especially suited to applications in demanding surroundings, such as in laboratories. An absolute innovation in this series is the testo 176 P1, with which absolute pressure can be measured and documented, in addition to temperature and humidity.

All new data loggers from the series testo 175 and testo 176 have a USB and an SD card interface, making readout of the data fast and easy. The considerably higher memory capacity and the power supply using conventional batteries are further plus points of the new products. It goes without saying that the proven one-button menu structure, which offers absolute operating convenience, has been retained in the new generation of data loggers.





The right logger software for every application

Three software versions are available for programming and reading out the data loggers, as well as for the analysis of the data. Depending on the requirement, Testo offers the right software solution. The testo ComSoft Basic 5 with new graphic user interface offers all the basic functions of a standard logger software. Independently of where the data loggers are used – the testo ComSoft Basic 5 facilitates the configuration and readout of the instruments as well as the analysis of the data. User-friendliness and intuitive operation are paramount here. Requirements over and above this, such as the correlation of measurement data which have been recorded at different sites, are optimally fulfilled by the testo ComSoft Professional 4. The pharmaceutical industry makes very special demands, whose fulfilment is guaranteed by the testo ComSoft CFR21 Part 11.







testo ComSoft Basic 5 - for easy operation and convenient analysis

- Graphic user interface guides the user step-by-step through the individual procedures
- · Convenient export functions, e. g. for further processing of the data in Microsoft Excel, or the generation of a PDF which can be made available to other users
- The testo ComSoft Basic 5 offers all the basic functions of a logger software
- Free download of the testo ComSoft Basic 5 with mandatory registration



CD ComSoft Basic 5, if free, registration-mandatory download not wanted

Order no.: 0572 0580





testo ComSoft Professional 4 - for demanding users

- The ComSoft Professional 4 offers analysis and presentation possibilities over and above the basic functions
- Many measurement sites and data loggers can be organized in a clear tree structure, for example

Order no.: 0554 1704

testo ComSoft CFR 21 Part 11 - specially for the requirements of the pharmaceutical industry

- The ComSoft CFR 21 Part 11 is a validation-capable software, and fulfils all the stipulations of the FDA (Food and Drug Administration) in the framework of a closed system
- Conformity with the CFR guidelines is confirmed by an independent institute

Order no.: 0554 1705



Secure and simple - an overview of the new data loggers testo 175 and testo 176:

Safety

- Data security thanks to non-volatile memory even when the batteries are spent, the data are not lost
- Password protection prevents changes by unauthorized persons
- Anti-theft lock with the help of a wall holder, the loggers can be permanently attached and secured against theft with a padlock
- Robustness three data loggers from the testo 176 series have a metal housing which offers optimum protection from impact

User-friendliness

- Two standard interfaces (mini USB and SD card) allow easy programming and readout of the loggers via direct connection to the PC
 - an additional interface for the readout is not required
- Large display for non-problematic reading of measurement data even in badly lit rooms, thanks to backlighting at the press of a button
- Operating comfort thanks to one-button menu structure a click on the "Go" button and the recording of the measurement values begins
- Longer battery life due to improved energy management the loggers testo 176 record data without interruption for up to 8 years
- The large memory of the loggers testo 176 collects up to 2 million measurement values - the logger needs to be read out considerable less often



Overview of logger series testo 174, 175, 176







Order no.:

0572 1560

0572 6560

Type name	testo 174 T	testo 174 H	testo 175 T1	testo 175 T2	testo 175 T3
Description	1-channel temperature logger with internal sensor (NTC)	2-channel temperature and humidity data logger with internal sensor (NTC/capacitive humidity sensor)	1-channel temperature logger with internal sensor (NTC)	2-channel temperature data logger with internal (NTC), and external sensor connection (NTC)	2-channel temperature data logger with external sensor connections (TC Type T und Type K)
Illustration					
All data loggers can be validated1				6	WED 7570
	248		- 187 Go	18.1 2 - 18.1 Go	\$26 <u>8</u> 9
Sensor	NTC	NTC/ capacitive humidity sensor	NTC	NTC	TC (Types T and K)
Channels	1 x internal	2 x internal	1 x internal	1 x internal, 1 x external	2 x external
Measurement units	°C, °F	°C, °F, %rF, %RH	°C, °F	°C, °F	°C, °F
Measuring range	-30 to +70 °C	-20 to +70 °C internal 0 to 100 %RH	-35 to +55 °C internal	-35 to +55 °C internal -40 to +120 °C external	-50 to +400 °C (Type T) -50 to +1000 °C (Type K)
Accuracy ± 1 digit	±0,5 °C (-30 to +70 °C)	±0.5 °C (-20 to +70 °C) ±3 %RH (2 to 98 %RH) +0.03 %RH/K	±0.5 °C (-35 to +55 °C)	±0.5 °C (-35 to +55 °C)	±0.5 °C (-50 to +70 °C) ±0.7 % of mv (+70.1 to +1000 °C)
Resolution	0,1 °C	0,1 °C, 0,1 %rF	0,1 °C	0,1 °C	0,1 °C
Battery life (at +25 °C)	500 days at 15 min. meas. rate	1 year at 15 min. meas. rate	3 years at 15 min. meas. rate	3 years at 15 min. meas. rate	3 years at 15 min. meas. rate
Operating temperature	-30 to +70 °C	-20 to +70 °C	-35 to +55 °C	-35 to +55 °C	-20 to +55 °C
Storage temperature	-40 to +70 °C	-40 to +70 °C	-35 to +55 °C	-35 to +55 °C	-20 to +55 °C
Dimensions	60 x 38 x 18,5 mm	60 x 38 x 18,5 mm	89 x 53 x 27 mm	89 x 53 x 27 mm	89 x 53 x 27 mm
Battery type	2 x CR 2032 Lithium	2 x CR 2032 Lithium	3 x AlMn Type AAA or Energizer	3 x AlMn Type AAA or Energizer	3 x AlMn Type AAA or Energizer
Protection class	IP 65	IP 20	IP 65	IP 65	IP 65
Meas. cycle	1 min - 24 h	1 min - 24 h	10 sec - 24 h	10 sec - 24 h	10 sec - 24 h
Memory	16.000 readings	16.000 readings	1 mio. measurement values	1 mio. measurement values	1 mio. measurement values
Software	ComSoft Basic 5 ComSoft Professional 4	ComSoft Basic 5 ComSoft Professional 4	ComSoft Basic 5 ComSoft Professional 4 ComSoft CFR 21 Part 11	ComSoft Basic 5 ComSoft Professional 4 ComSoft CFR 21 Part 11	ComSoft Basic 5 ComSoft Professional 4 ComSoft CFR 21 Part 11

0572 1751

0572 1752

0572 1753



Type name	testo 175 H1	testo 176 T1	testo 176 T2	testo 176 T3	testo 176 T4
Description	2-channel temperature and humidity data logger with external humidity sensor (NTC/capacitive humidity sensor)	1-channel temperature logger in metal housing with highly accurate internal sensor (Pt100)	2-channel temperature logger with connections for highly accurate external sensor (Pt100)	4-channel temperature data logger in metal housing with external sensor connection (TC Type T, Type K and Type J)	4-channel temperature data logger with external sensor connections (TC Type T, Type K and Type J)
Illustration					
All data loggers can be validated1	GO GO	ede (MT)	118 689	Treds Dre 4	567 534
Sensor	NTC/ capacitive humidity sensor	Pt100 class A	Pt100 class A	TC (Types T , K and J)	TC (Types T , K and J)
Channels	2 x internal (stump)	1 x internal	2 x external	4 x external	4 x external
Measurement units	°C, °F, %rF, %RH, td, g/m³	°C, °F	°C, °F	°C, °F	°C, °F
Measuring range	-20 to +55 °C -40 to +50 °C _{td} 0 to 100 %RH	-35 to +70 °C	-50 to +400 °C	-200 to +400 °C (Type T) -195 to +1000 °C (Type K) -100 to +750 °C (Type J)	-200 to +400 °C (Type T) -195 to +1000 °C (Type K) -100 to +750 °C (Type J)
Accuracy ± 1 digit	±2 %RH (2 to 98 %RH) +0.03 %RH/K ±0.4 °C (-20 to +55 °C)	±0.2 °C (-35 to +70 °C)	±0.2 °C (-50 to +200 °C) ±0.3 °C (+200.1 to +400 °C)	±1% of mv (-200 to -100.1 °C) ±0.3 °C (-100 to +70 °C) ±0.5% of mv (+70.1 to +1000 °C)	±1% of reading (-200 to 100.1 °C) ±0.3 °C (-100 to +70 °C) ±0.5% of m.v. (+70.1 to +1000 °C)
Resolution	0.1 °C, 1 %RH	0,01 °C	0,01 °C	0,1 °C	0,1 °C
Battery life (at +25 °C)	3 years at 15 min. meas. rate	8 years at 15 min. meas. rate	8 years at 15 min. meas. rate	8 years at 15 min. meas. rate	8 years at 15 min. meas. rate
Operating temperature	-20 to +55 °C	-35 to +70 °C	-35 to +70 °C	-20 to +70 °C	-20 to +70 °C
Storage temperature	-20 to +55 °C	-40 to +85 °C	-40 to +85 °C	-40 to +85 °C	-40 to +85 °C
Dimensions	149 x 53 x 27 mm	103 x 63 x 33 mm	103 x 63 x 33 mm	103 x 63 x 33 mm	103 x 63 x 33 mm
Battery type	3 x AlMn Type AAA or Energizer	1 x Lithium (TLH-5903)	1 x Lithium (TLH-5903)	1 x Lithium (TLH-5903)	1 x Lithium (TLH-5903)
Protection class	IP 54	IP 68	IP 65	IP 54	IP 54
Meas. cycle	10 sec - 24 h	1 sec - 24 h	1 sec - 24 h	1 sec - 24 h	1 sec - 24 h
Memory	1 mio. measurement values	2 mio. measurement values	2 mio. measurement values	2 mio. measurement values	2 mio. measurement values
Software	ComSoft Basic 5 ComSoft Professional 4 ComSoft CFR 21 Part 11	ComSoft Basic 5 ComSoft Professional 4 ComSoft CFR 21 Part 11	ComSoft Basic 5 ComSoft Professional 4 ComSoft CFR 21 Part 11	ComSoft Basic 5 ComSoft Professional 4 ComSoft CFR 21 Part 11	ComSoft Basic 5 ComSoft Professional 4 ComSoft CFR 21 Part 11
Order no.:	0572 1754	0572 1761	0572 1762	0572 1752	0572 1764









Overview of logger series testo 174, 175, 176







Type name	testo 176 H1	testo 176 H2	testo 176 P1
Description	4-channel temperature and humidity data logger with external sensor connections (NTC/capacitive humidity sensor)	4-channel temperature and humidity data logger in metal housing with external sensor connections (NTC/capacitive humidity sensor)	5-channel pressure, temperature and humidity data logger with internal sensor (absolute pressure) and external sensor connections (NTC/capacitive humidity sensor)

Illustration

All data loggers can be validated1







Sensor	NTC/ capacitive humidity sensor	NTC/ capacitive humidity sensor	NTC/ capacitive humidity sensor/ absolute pressure sensor
Channels	2 probes, 4 external channels	2 probes, 4 external channels	1 x internal, 2 probes, 4 external channels
Measurement units	°C, °F, %rF, %RH, td, g/m³, WB	°C, °F, %rF, %RH, td, g/m³, WB	°C , °F, %rF, %RH, td, g/m³, hPa, mbar, in Hg, in H20, psi
Measuring range	-20 to +70 °C -40 to +70 °C _{td} 0 to 100 %RH	-20 to +70 °C -40 to +70 °C _{td} 0 to 100 %RH	-20 to +70 °C -40 to +70 °C _{td} 0 to 100 %RH / 600 mbar to 1100 mbar
Accuracy ± 1 digit	±0.2 °C (-20 to +70 °C) ±0.4 °C (rest of measuring range)	±0.2 °C (-20 to +70 °C) ±0.4 °C (remaining meas. range)	±0.2 °C (-20 to +70 °C) ±0.4 °C (remaining measuring range) ±3 mbar (0 to 50 °C)
Resolution	0.1 °C, 0.1 %RH	0.1 °C, 0.1 %RH	0.1 °C, 0.1 %RH, 1 mbar
Battery life (at +25 °C)	8 years at 15 min. meas. rate	8 years at 15 min. meas. rate	8 years at 15 min. meas. rate
Operating temperature	-20 to +70 °C	-20 to +70 °C	-20 to +70 °C
Storage temperature	-40 to +85 °C	-40 to +85 °C	-40 to +85 °C
Dimensions	103 x 63 x 33 mm	103 x 63 x 33 mm	103 x 63 x 33 mm
Battery type	1 x Lithium (TLH-5903)	1 x Lithium (TLH-5903)	1 x Lithium (TLH-5903)
Protection class	IP 65	IP 65	IP 54
Meas. cycle	1 sec - 24 h	1 sec - 24 h	1 sec - 24 h
Memory	2 mio. measurement values	2 mio. measurement values	2 mio. measurement values
Software	ComSoft Basic 5 ComSoft Professional 4 ComSoft CFR 21 Part 11	ComSoft Basic 5 ComSoft Professional 4 ComSoft CFR 21 Part 11	ComSoft Basic 5 ComSoft Professional 4 ComSoft CFR 21 Part 11
Order no.:	0572 1765	0572 1766	0572 1767



Probes



The specified seal class of the data loggers is achieved with these probes.

CD ComSoft Basic 5, if free, registration-mandatory download not wanted

Order no.: 0572 0580

testo ComSoft Professional 4 - for demanding users

- The ComSoft Professional 4 offers analysis and presentation possibilities over and above the basic functions
- Many measurement sites and data loggers can be organized in a clear tree structure, for example

Order no.: 0554 1704

 * Probe tested according to EN 12830 for suitability for the areas of transport and storage

** without protective glass

*** Long-term measuring range to +125 °C, briefly to +150 °C or +140 °C (2 minutes)

**** Acc. to norm 60584-2, the accuracy of Class 1 refers to -40 to -100 °C (Type K), Class 2 to 40 to +1200 °C (Type K), Class 3 to -200 to +40 °C (Type K)

testo ComSoft CFR 21 Part 11 – specially for the requirements of the pharmaceutical industry

- The ComSoft CFR 21 Part 11 is a validation-capable software, and fulfils all the stipulations of the FDA (Food and Drug Administration) in the framework of a closed system
- Conformity with the CFR guidelines is confirmed by an independent institute

Order no.: 0554 1705









Measuring cooking oil quality - quickly and accurately



testo 270

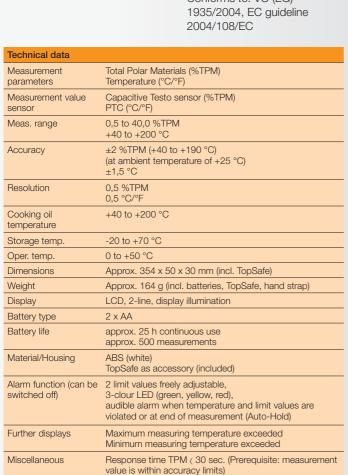


The cooking oil has been frequently used. Longer use is bad for the quality of the product and can lead to complaints from the customer.

The most important part of the testo 270 cooking oil tester is Testo's new capacitive oil sensor. Using this sensor, measurements are carried out directly in the hot cooking oil which means that control measurements can be quickly carried out while work in the kitchen is in progress. Several deep-fat fryers can be tested back-to-back without the sensor having to cool down.

Maximum use of the cooking oil is made possible. The oil is only changed if the limit value is reached.

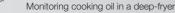
- · Measurement directly in the deep-fryer
- Sensor is embedded in metal and breakage-proof, can be easily wiped clean thanks to sensor protection layer
- Fast measurement value display in % TPM
- Automatic recognition of measurement end (Auto-Hold %TPM)
- With 2 freely selectable limit values
- Alarm function aubible and visual:
- Lettering "ALARM"
- 3-colour LED bar (green, yellow,
- Configuration menu and limit values can be locked to protect them from external manipulation
- Removable protective case and optional hand strap (dishwasher-proof)
- Conforms to: VO (EG)



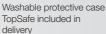
Protection class (with TopSafe) IP 65

Warranty 24 months

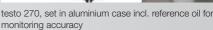












testo 270, set in a case

Cooking oil tester testo 270 incl. aluminium case, TopSafe, hand strap, reference oil, batteries, adjustment protocol, instruction manual and short instruction manual

Part no. 0563 2700

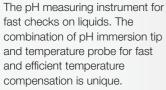
Accessories Ordering data	Part no.
ISO calibration certificate/analysis, calibration pointsapprox. 3 % TPM and approx. 24 %TPM at 50 °c	C 0520 0028
Reference oil for calibrating and adjusting the cooking oil tester testo 270 (1 x 100 ml)	0554 2650
Reference oil for calibrating and adjusting the cooking oil tester testo 270 (3 x 100ml)	0554 2651



Compact pH tester - For liquids







The Testo pH probe is leak-proof, maintenance-free, robust and not affected by dirt thanks to the large volume of gel electrolyte and the dual wall diaphragm.

- Maintenance-free gel electrolyte
- Built-in temperature probe
- 1, 2 or 3 point calibration possible



Fast pH check on fruit juices, for example

testo 206-pH1 instrument set

One-hand pH/°C measuring instrument, pH1 probe head for liquids, storage cap with gel, TopSafe and belt/wall holder

Part no. 0563 2061

testo 206-pH1 Starter Set

One-hand pH/°C measuring instrument, pH1 probe head for liquids, storage cap with gel, calibration dosing bottles 250 ml pH 4+7, TopSafe, belt/wall holder and aluminium case

Part no. 0563 2065

Ordering data as for testo 206-pH2, see below

Technical data					
Sensor	pH electrode	NTC			
Meas. range	0 to 14 pH	0 to 60 °C (Sho max. 5 min)	ort-term to +80 °C		
Accuracy ±1 digit	±0.02 pH	±0.4 °C			
Resolution	0.01 pH	0.1 °C			
Storage temp.	-20 to +70 °C	Oper. temp.	0 to +60 °C		
Compensation	Automatic temperature	compensation			
Measuring rate	2 measurements per second				
Battery life	80 h (Auto Off 10 min)	Dimensions	197 x 33 x 20 mm		

Compact pH tester - For semi-solid food



testo 206-pH2

The pH measuring instrument for spot checks on semi-solid food, e.g. jelly, cream, cheese, fruit...

The protection case included "TopSafe" (IP 68) is waterproof, hygienic and dishwasher-safe.

- Can be used for food containing protein
- Combination: pH penetration tip with temperature measurement probe
- Automatic full scale value



testo 206-pH2 Starter Set

One-hand pH/°C measuring instrument, pH2 probe head for semi-solid substances, storage cap with gel, TopSafe and belt/wall holder

testo 206-pH2 instrument set

Part no. 0563 2062

One-hand pH/°C measuring instrument, pH2 probe head for semi-solid substances, storage cap with gel, calibration dosing bottles 250 ml pH 4+7, TopSafe, belt/wall holder and aluminium case

Part no. 0563 2066

Part no.
0650 2061
0650 2062
0554 2067
0554 2068
0554 2061
0554 2062

Spot pH checks on milk products

Accessories Ordering data	Part no.
pH buffer solution 7.00 in dosing bottle (250 ml), with DAkkS calibration certificate	0554 2063
pH buffer solution 7.00 in dosing bottle (3 x 250 ml per pack), with DAkkS calibration certificate	0554 2064
pH buffer solution 10.01 in dosing bottle (250 ml), with DAkkS calibration certificate	0554 2065
pH buffer solution 10.01 in dosing bottle (3 x 250 ml per pack), with DAkkS calibration certificate	0554 2066
Technical data as for testo 206-pH1, see above	



Accessories: Buffer solutions for testo 205/206/230

Testo buffer solutions with pH 4.01/7.00/10.01

pH buffer solution 4.01 in dosing bottle (250 ml), with DAkkS calibration certificate

Part no. 0554 2061

pH buffer solution 7.00 in dosing bottle (250 ml), with DAkkS calibration certificate

Part no. 0554 2063

pH buffer solution 10.01 in dosing bottle (250 ml), with DAkkS calibration certificate

Part no. 0554 2065



1 Filling the dosing chamber

• To attain the right buffer quantity



2 Adjusting

• Instrument adjustment in fresh pH buffer solution, no measurement errors caused by used buffer solution



3 Emptying the dosing chamber

• Empty dosing chamber following adjustment, i.e. no contamination caused by left over buffer solution



One-hand pH/°C measuring instrument - Robust and maintenance-free

testo 205

A robust food penetration pH/°C measuring instrument with automatic temperature compensation. The robust penetration measuring tip is interchangeable and not affected by dirt and dust thanks to the hole diaphragm.

Instruments Set

One-hand pH/°C measuring instrument with penetration probe,

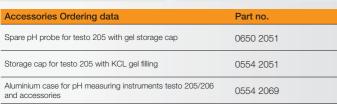
storage cap, belt/wall holder

- Combined penetration tip with temperature probe
- Measuring tip can be changed by user
- Maintenance-free gel electrolyte
- Backlit display
- Audible key feedback
- 2 line display
- Automatic full-scale value recognition
- 1, 2 or 3 point calibration possible

Starter Set

One-hand pH/°C meas. instr. with penetration probe, storage cap, gel and cal. bottles 250 ml pH 4+7, belt/wall holder and aluminium case

Part no. 0563 2051 Part no. 0563 2052





Constant quality control when storing food

Technical data	a	
Sensor	pH electrode	NTC
Meas. range	0 to 14 pH	0 to 60 °C (Short-term to +80 °C max. 5 min)
Accuracy ±1 digit	±0.02 pH	±0.4 °C
Resolution	0.01 pH	0.1 °C
Battery type	4 x Button cell LR44	Oper. temp. 0 to +50 °C
Auto Off	10 min	Storage temp20 to +70 °C



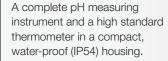




Compact pH/°C measuring instrument – With selection of probes



testo 230



- Probes for liquid, semisolid and solid food
- Display of calibration data and error messages



Checks pH value and penetration temperature in meat prior to further processing

testo 230

Analysis instrument, incl. 2 electrode clips and battery

Part no. 0560 2304

The set for solid/semisolid food

testo 230, Food set: testo 230 analysis instrument with 2 electrode clips and battery, Testo buffer set pH 4 and 7, 50ml each, pH food electrode without temperature sensor, storage solution (50ml), robust food penetration probe with special handle (IP 65) and plastic transport case

Part no. 0563 2308

Universal set

testo 230, Universal set: testo 230 analysis instrument with 2 electrode clips and battery, Testo buffer set pH 4 and 7, 50ml each, universal plastic electrode with temperature sensor and set case (plastic)

Part no. 0563 2305

Accessories Ordering data	Part no.
Set case (plastic) for measuring instrument, probes and accessories, user-friendly arrangement of measuring instrument and accessories	0516 0230
Testo buffer set pH 4, 7; 50 ml each, for calibration in acidic range	0554 2321
Testo buffer set pH 4, 7, 10; 50ml each, for calibration in acidic and alkaline range	0554 2320
Electrolyte solutions (50 ml) for storing pH electrodes (in watering cap), KCl 3M for pH electrode 0650 2063, 0650 1623, 0650 2064	0554 2332
Storage solution; 50ml, for electrode type 03 pH and type 13 pH	0554 2318
Gel storage cap for standard electrodes	0554 2053
ISO calibration certificate/water analysis, for pH buffer solutions; calibration points 4 pH; 7 pH; 10 pH $$	0520 0007
ISO calibration certificate/water analysis, at 3 pH values over the measuring range	0520 0037

Technical dat	a				
Probe type	pH electrode	NTC		Redox e	lectrode
Meas. range	0 to +14 pH	-50 to +150	O°C	-1999 to	+1999 mV
Accuracy ±1 digit	±0.01 pH (0 to +14 pH)	±0.5% of mv +150 °C) ±0.2 °C (-25 °C) ±0.4 °C (-50 ±0.4 °C (+75 °C)	to +74.9 to -25.1 °C)	±1 mV (C ±2 mV (-	999 to 0 mV) to +999 mV) 1999 to -1000 mV) -1000 to +1999 mV)
Resolution	0.01 pH	0.1 °C		1 mV	
Oper. temp.	0 to +40 °C		Battery life	е	100 h
Storage temp	20 to +70 °C)	Dimension	ns	168 x 72 x 27 mm
Display	LCD, 2 lines		Weight		170 g
Battery type	9V block bat	tery	Material/H	Housing	ABS
Temperature of	compensation: ma	an10 to +	150°C; auto	o -50 to +	150°C

Description	Illustration		Meas. range	Oper. temp. Accuracy	Part no.
pH universal plastic electrode without temperature sensor	** Na		0 to +14 pH	0 to +60 °C Short-term to +80 °C	0650 2063
pH universal plastic electrode with temperature sensor	210	100	0 to +14 pH	0 to +60 °C Short-term to +60 °C	0650 2064
Glass pH electrode with temperature sensor	-	-	0 to +14 pH	-10 to +80 °C	0650 1623
Stainless steel NTC food probe (IP65)	125 mm	15 mm	-50 to +150 °C	±0.5% of mv (+100 to +150 °C)	0613 2211
with PUR cable	Ø 4 mm	Ø 3 mm	Long-term meas. range +125°C, short-term +150°C (2 minutes)	+150 °C) ±0.2 °C (-25 to +74.9 °C) ±0.4 °C (remaining range)	Conn.: Fixed cable
Bobust NTC food penetration probe with	115 mm	30 mm	-25 to +150 °C	±0.5% of mv (+100 to +150 °C)	0613 2411
Robust NTC food penetration probe with special handle, reinforced PUR cable	Ø 5 mm	Ø 3.5 mm	Long-term meas. range +125 °C, short-term +150 °C (2 minutes)	±0.2 °C (-25 to +74.9 °C) ±0.4 °C (remaining range)	Conn.: Fixed cable





Testo: At Your Service

Please send for more information:

Monitoring Instruments for Food Production, Transport and Storage Measurement Engineering for Restaurants, Catering and

Supermarkets

Measurement Engineering for Air Conditioning and Ventilation

Measurement Engineering for Heating and Installation

Measurement Solutions for Emissions, Service and Thermal

Processes

Measurement Solutions for Refrigeration Technology

Stationary Measurement Solutions – Transmitters and Monitoring Systems

Measurement Solutions for Production, Quality Control and Maintenance

Measurement Solutions for Climate Applications in Industry

Reference Measurement Technology for Industry

Measuring Instruments For Temperature

Measuring Instruments for Humidity

Measuring Instruments For Velocity

Measuring Instruments for Pressure and Refrigeration

Multi-Function Measuring Instruments

Measuring Instruments for Flue Gas and Emissions

Measuring Instruments for RPM, Analysis, Current/Voltage

Measuring Instruments For Indoor Air Quality, Light And Sound

Stationary Measurement Technology Humidity / Differential

Pressure / Temperature / Process Displays

Stationary Measurement Technology Compressed Air Humidity / Compressed Air Consumption



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Icons



Backlit display



User-friendly operation based on menu-driven operations



Radio probes for wireless applications



SoftCase or TopSafe to protect instrument or protect instrument from water ingress



Shock-proof



Infrared printer

Efficient paper documentation of measured results on site



RS 232/USB interface

For easy connection to analysis software



Battery and rechargeable battery operation possible



Battery can be recharged in instrument



Testo is a member of Eurotoques, the Association for top chefs with the aim of retaining, promoting and spreading the culture of cooking, eating, drinking, culinary diversity, quality awareness and healthy nutrition using natural ingredients.