Data sheet
testo 112

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Temperature measuring instrument (1-channel)

testo 112 – Universally applicable

°C

- Highly accurate, officially calibratable temperature measuring instrument
- The instrument for official food inspections
- TopSafe, the indestructible protective cover, protects from dirt and impact
  (with TopSafe and probe attached: IP65)
- Display and storage of min./max. values
- Audible alarm (limit values adjustable)
- Large, illuminated display
- Measurement data printout on site with Testo fast printer

IP65

The officially calibratable temperature measuring instrument testo 112 was specially designed for official monitoring measurements. Thanks to the PTB type permit and the possibility of official calibration, the instrument is authorized for use in official measurements by food inspectors, assessors and authorities.
An integrated self-test provides security even before the measurement. Thanks to the broad measurement range, the testo 112 is the ideal temperature measuring instrument for all aspects of food inspection. NTC probes (thermistor probes) as well as Pt100 probes (platinum resistance probes) can be connected to the probe input, covering a broad measuring range from deep-frozen goods to checks on deep-fryers. Occurring minimum and maximum values can be conveniently called up in the two-line display, and when individually adjustable upper and lower limit values are violated, the measuring instrument immediately provides an audible alarm.
In order to document the temperature values, the testo 112 offers the possibility of printing out the data directly on site incl. date and time using the Testo report printer.

Technical data / Accessories

testo 112

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

Part no. 0560 1128

General technical data

Operating temperature	-20 to +50 °C
Storage temperature	-30 to +70 °C
Adjustment time	2 s
Battery life	100 h
Battery type	9V block battery, 6F22
Dimensions	182 x 64 x 40 mm
Weight	171 g
Housing material	ABS
EC Directive	2014/30/EU
Protection class	with TopSafe (accessory) and sensor connected: IP65

Sensor types

	NTC	Pt100
Measuring 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

Accessories	Part no.	
Accessories for measuring instrument		
9V rech. battery for instrument, instead of battery	0515 0025	
Testo fast printer IrDA with wireless infrared interface; 1 roll thermal paper; 4 AA batteries	0554 0549	
Spare thermal paper for printer (6 rolls), permanent ink measurement data documentation legible for up to 10 years	0554 0568	
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	
TopSafe, protects from impact and dirt	0516 0220	
Case for measuring instrument and probes	0516 0191	
Service case for measuring instrument and probe, dimensions 460 x 320 x 120 mm	0516 1201	

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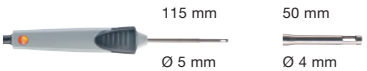
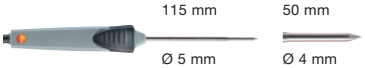
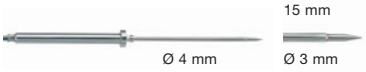
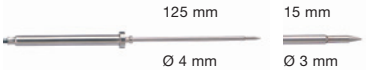
Probes

Probe type	Dimensions Probe shaft/probe shaft tip	Measuring range	Accuracy	t_{99}	Part no.
Air probes					
Efficient, robust NTC air probe, Fixed cable 1.2 m		-50 to +125 °C [2]	±0.2 °C (-25 to +80 °C) ±0.4 °C (remaining range)	60 s	0613 1712
Surface probes					
Waterproof NTC surface probe for flat surfaces, Fixed cable 1.2 m		-50 to +150 °C [2]	±0.5% of m.v. (+100 to +150 °C) ±0.2 °C (-25 to +74.9 °C) ±0.4 °C (remaining range)	35 s	0613 1912
Pipe wrap probe with Velcro for pipe diameter to max. 75 mm, Tmax. +75 °C, NTC, Fixed cable		-50 to +70 °C	±0.2 °C (-25 to +70 °C) ±0.4 °C (-50 to -25.1 °C)	60 s	0613 4611
Immers./penetr. probes					
Waterproof NTC immersion/ penetration probe, Fixed cable		-50 to +150 °C [2]	±0.5% of m.v. (+100 to +150 °C) ±0.2 °C (-25 to +74.9 °C) ±0.4 °C (remaining range)	10 s	0613 1212
Food probes					
Stainless steel NTC food probe (IP65) with PUR cable, Fixed cable		-50 to +150 °C [2]	±0.5% of m.v. (+100 to +150 °C) ±0.2 °C (-25 to +74.9 °C) ±0.4 °C (remaining range)	8 s	0613 2211
Stainless steel NTC food probe (IP67) with PTFE cable to +250°C, Fixed cable		-50 to +150 °C [2]	±0.5% of m.v. (+100 to +150 °C) ±0.2 °C (-25 to +74.9 °C) ±0.4 °C (remaining range)	8 s	0613 3311
Robust NTC food penetration probe with special handle, reinforced PUR cable, Fixed cable		-25 to +150 °C [2]	±0.5% of m.v. (+100 to +150 °C) ±0.2 °C (-25 to +74.9 °C) ±0.4 °C (remaining range)	7 s	0613 2411
Frozen food probe NTC, corkscrew design (incl. plug-in wire), Plug-in cable		-50 to +140 °C [2]	±0.5% of m.v. (+100 to +140 °C) ±0.2 °C (-25 to +74.9 °C) ±0.4 °C (remaining range)	20 s	0613 3211

The measuring instrument inside TopSafe is waterproof with this probe.
2) Long-term measurement range +125 °C, short-term +150 °C or +140 °C (2 minutes)

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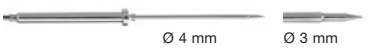
Calibratable probes

Probe type	Dimensions Probe shaft/probe shaft tip	Measuring range	Accuracy	t_{99}	Part no.
Pt100					
Waterproof Pt100 immersion/ penetration probe, calibratable, Fixed cable 1.2 m	 160 mm Ø 5 mm 50 mm Ø 4 mm	-50 to +300 °C	Class A	12 s	0614 1272
Robust stainless steel Pt100 food probe IP65, calibratable, Fixed cable 1.2 m	 125 mm Ø 4 mm 15 mm Ø 3 mm	-50 to +300 °C	Class A	10 s	0614 2272
NTC					
Waterproof NTC immersion/ penetration probe, calibratble, Fixed cable 1.2 m	 160 mm Ø 5 mm 50 mm Ø 4 mm	-25 to +120 °C	±0.5% of m.v. (+100 to +120 °C) ±0.2 °C (-25 to +74.9 °C) ±0.4 °C (remaining range)	10 s	0614 1212
Accurate, robust NTC air probe, calibratable, Fixed cable 1.2 m	 115 mm Ø 5 mm 50 mm Ø 4 mm	-25 to +120 °C	±0.5% of m.v. (+100 to +120 °C) ±0.2 °C (-25 to +74.9 °C) ±0.4 °C (remaining range)	60 s	0614 1712
Stainless steel NTC food probe, calibratable (IP65), PUR cable can be used up to +80°C, IP54 plug-in connection, Fixed cable	 125 mm Ø 4 mm 15 mm Ø 3 mm	-25 to +120 °C	±0.5% of m.v. (+100 to +120 °C) ±0.2 °C (-25 to +74.9 °C) ±0.4 °C (remaining range)	10 s	0614 2211

The measuring instrument inside TopSafe is waterproof with this probe.

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