

# Temperature measuring instrument (1-channel)

testo 720

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Ideally suitable for applications in laboratories and industry

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Continuous display of min./max. values

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Audible alarm (adjustable limit values)

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Resistant to aggressive media with TopSafe

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Hold-button for freezing measurement display

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Large illuminated display

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Measurement data printout on site with Testo fast printer

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The testo 720 is a robust temperature measuring instrument for precise air, surface and immersion measurements in the measuring range from -100 to +800 °C. It is possible to connect Pt100 probes as well as NTC probes to the one-channel measuring instrument.

In combination with the TopSafe, the testo 720 is resistant to aggressive media – as is the glass-coated probe, which has proven its worth in daily laboratory work.

You, as the user, can store limit values in the instrument yourself; as soon as these upper or lower limits are violated, an audible alarm sounds. The instrument also continuously shows all minimum and maximum values in its large backlit display. Using the optional Testo report printer, the measurement results can be directly printed out on site as required.

## Technical data / Accessories

### testo 720

testo 720, 1 channel temperature measuring instrument Pt100/NTC, with battery and calibration protocol

Part no. 0560 7207



#### General technical data

Operating temperature	-20 to +50 °C
Storage temperature	-30 to +70 °C
Battery type	9V block battery
Battery life	70 h
Dimensions	182 x 64 x 40 mm
Weight	171 g
Housing material	ABS

#### Sensor types


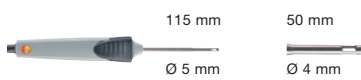
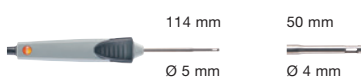
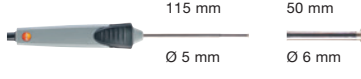
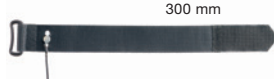
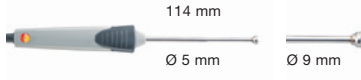
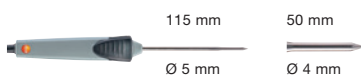

	Pt100	NTC
Measuring range	-100 to +800 °C	-50 to +150 °C
Accuracy ±1 digit	±0.2% of m.v. (+200 to +800 °C) ±0.2 °C (remaining range)	±0.2 °C (-25 to +40 °C) ±0.3 °C (+40.1 to +80 °C) ±0.4 °C (+80.1 to +125 °C) ±0.5 °C (remaining range)
Resolution	0.1 °C	0.1 °C

#### Accessories for measuring instrument

#### Part no.

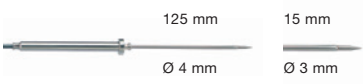
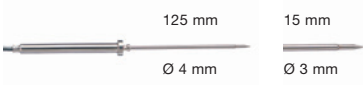
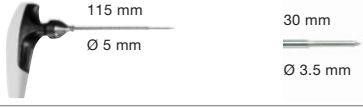
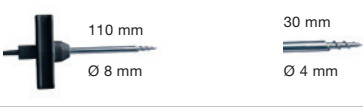
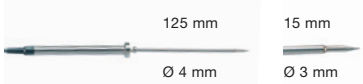
9V rech. battery for instrument, instead of battery	0515 0025
Testo fast printer IrDA with wireless infrared interface; 1 roll thermal paper; 4 AA batteries	0554 0549
Spare thermal paper for printer (6 rolls), permanent ink	0554 0568
TopSafe, protects from impact and dirt (incl. 2 attachment magnets)	0516 0221
Case for measuring instrument and probes	0516 0191
Service case for measuring instrument, probe and accessories, dimensions 454 x 316 x 111 mm	0516 1200
Service case for measuring instrument and probe, dimensions 454 x 316 x 111 mm	0516 1201
Silicone heat paste (14g), Tmax = +260°C improves heat transfer in surface probes	0554 0004
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 air/immersion probe; cal. points 0°C; +150°C; +300°C	0520 0021
ISO calibration certificate/temperature meas. instr. with air/immersion probe; calibration points 0°C; +300°C; +600°C	0520 0031
DAkkS calibration certificate/temperature meas. instr. with air/immersion probe; calibration points -20 °C; 0 °C; +60 °C	0520 0211
ISO calibration certificate/temperature meas. instr. with surface probe; calibration points +60°C; +120°C; +180°C	0520 0071
DAkkS calibration certificate/temperature contact surface temperature probes; calibration points +100°C; +200°C; +300°C	0520 0271

# Probes

Probe type	Dimensions Probe shaft/probe shaft tip	Measuring range	Accuracy	t <sub>99</sub>	Part no.
<b>Laboratory probes</b>					
Laboratory probe Pt100, glass-coated, exchangeable glass pipe (Duran 50), resistant to corrosive substances, Fixed cable		-50 to +400 °C	Class A (-50 to +300 °C), Class B (remaining range) <sup>1)</sup>	45 s 12 s <sup>1)</sup>	0609 7072
Spare glass tube for laboratory probes					0554 7072
<b>Air probes</b>					
◆ Efficient, robust NTC air probe, Fixed cable 1.2 m		-50 to +125 °C	±0.2 °C (-25 to +80 °C) ±0.4 °C (remaining range)	60 s	0613 1712
◆ Efficient, robust air probe, Pt100, Fixed cable		-50 to +400 °C	Class A (-50 to +300 °C), Class B (remaining range) <sup>1)</sup>	70 s	0609 1773
<b>Surface probes</b>					
◆ Waterproof NTC surface probe for flat surfaces, Fixed cable 1.2 m		-50 to +150 °C	±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		-50 to +70 °C	±0.2 °C (-25 to +70 °C) ±0.4 °C (-50 to -25.1 °C)	60 s	0613 4611
◆ Robust, waterproof surface temperature probe, Pt100, Fixed cable		-50 to +400 °C	Class B <sup>1)</sup>	40 s	0609 1973
<b>Immers./penetr. probes</b>					
◆ Waterproof NTC immersion/penetration probe, Fixed cable		-50 to +150 °C	±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
◆ Robust, waterproof Pt100 immersion/penetration probe, Fixed cable		-50 to +400 °C	Class A (-50 to +300 °C), Class B (remaining range) <sup>1)</sup>	12 s	0609 1273

◆ The measuring instrument inside TopSafe is waterproof with this probe.  
1) According to standard 60751, the accuracies of Class A and B refer to -200 to +600 °C (Pt100)

# Probes

Probe type	Dimensions Probe shaft/probe shaft tip	Measuring range	Accuracy	t <sub>99</sub>	Part no.
<b>Food probes</b>					
◆ Stainless steel NTC food probe (IP65) with PUR cable, Fixed cable		-50 to +150 °C <sup>2)</sup>	±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	±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 <sup>2)</sup>	±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 <sup>2)</sup>	±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
◆ Robust, Pt100 stainless steel food probe (IP65), Fixed cable		-50 to +400 °C	Class A (-50 to +300 °C), Class B (remaining range) <sup>1)</sup>	10 s	0609 2272

- ◆ The measuring instrument inside TopSafe is waterproof with this probe.  
 1) According to standard 60751, the accuracies of Class A and B refer to -200 to +600 °C (Pt100)  
 2) Long-term measurement range +125 °C, short-term +150 °C or +140 °C (2 minutes)