

# Temperature measuring instrument (2-channel)

testo 922 - Differential temperature measuring instrument for TC Type K with App connection



Easy, fast and precise differential temperature measurement with dual thermocouple Type K probes (2 TC Type K probes included)

Fast in-app configuration, graph history, second screen and measurement data memory in the testo Smart App

Wide range of applications due to large measuring range from -50 °C to 1000 °C

Large probe selection optional and compatible with commercially available TC Type K sensors

Audible alarm sounds if a limit value is exceeded

Professionals in **industry and trade** value the compact differential temperature measuring instrument testo 922 for its versatility: it not only determines temperatures quickly and accurately, but also does a direct calculation of the differential temperature. And that in a wide measuring range from -50 °C to 1000 °C. This means that measurements can be completed just as quickly as documentation with the practical testo Smart App for smartphones and tablets. A typical application for the testo 922 is, for example, the control of the supply/return temperature on heating circuit manifolds.

Two Type K thermocouple probes are included, but the testo 922 is also compatible with other commercially available TC Type K probes.

Incidentally: The testo Smart App not only supports you with the documentation of your measurement results. The smart assistant also takes care of configuring the testo 922 and displaying and storing the measured values for you. A particularly practical feature: The App also turns your smartphone into a second display.

# Ordering data / technical data / accessories

## testo 922

testo 922, 2-channel temperature measuring instrument TC Type K with App connection and audible alarm, incl. transport bag, 2 x TC Type K probes\*, calibration protocol and 3 x AA batteries

Order no. 0563 0922



Sensor type	TC Type K
Measuring range	-50 to +1000 °C
Accuracy ±1 digit	±(0.5 °C + 0.3% of m.v.) (-50 to +1000 °C)
Resolution	0.1 °C (-50 to +499.9 °C) 1 °C (rem. measuring range)

### General technical data

Operating temperature	-20 to +50 °C
Storage temperature	-20 to +50 °C
Battery type	3 x AA
Battery life	120 h
Dimensions	135 x 60 x 28 mm
Weight	191 g
Protection class	IP40 with TopSafe: IP65
Housing material	ABS + PC / TPE

\* Versatile flexible and fast-reaction probes (TC Type K, Class 1) with glass silk sheathed cable (cable length 800 mm)

## TopSafe

TopSafe, protects against impact and dirt, with attachment magnets and stand-up bracket

Order no. 0516 0224


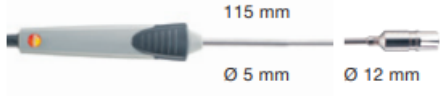
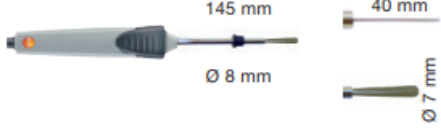

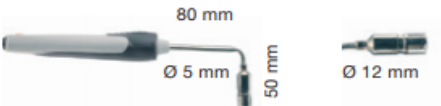



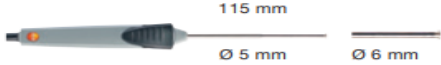


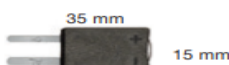


### Accessories

Accessories	Order no.
TopSafe, protects against impact and dirt, with attachment magnets and stand-up bracket	0516 0224
Mobile BT®/ IRDA printer, incl. 1 roll of thermal paper, rech. battery and mains unit	0554 0622
Spare thermal paper for printer (6 rolls), measurement data documentation can be read for up to 10 years	0554 0568
ISO temperature calibration certificate, for air/immersion probe, calibration points -18 °C; 0 °C; +60 °C	0520 0001
ISO temperature calibration certificate (only valid for immersion/penetration probe 0602 2693) Measuring instruments with air/immersion probe, calibration points 0 °C; +150 °C; +300 °C	0520 0021
ISO temperature calibration certificate Measuring instruments with air/immersion probe, calibration points 0 °C; +300 °C; +600 °C	0520 0031
ISO temperature calibration certificate Measuring units with surface probe, calibration points +60 °C; +120 °C; +180 °C	0520 0071
DAkkS temperature calibration certificate Measuring instruments with air/immersion probe, calibration points -20 °C; 0 °C; +60 °C	0520 0211
DAkkS temperature calibration certificate Surface temperature sensor touching, calibration points +100 °C; +200 °C; +300 °C	0520 0271



# Temperature probes

Probe type	Probe shaft/probe shaft tip dimensions	Measuring range	Accuracy	Response time	Order no.
Robust air probe, TC Type K, fixed cable		-60 to +400 °C	Class 2 <sup>1)</sup>	200 sec	0602 1793
Very fast-reaction surface probe with sprung thermocouple strip, also suitable for uneven surfaces, measuring range briefly up to +500 °C, TC Type K, fixed cable		-60 to +300 °C	Class 2 <sup>1)</sup>	3 sec	0602 0393
Fast-reaction paddle surface probe, for measurements in places that are difficult to access (e.g. narrow openings and cracks), thanks to flat, flexible tip, TC Type K, fixed cable		0 to +300 °C	Class 2 <sup>1)</sup>	5 sec	0602 0193
Precise, watertight surface probe with small measuring head for even surfaces, TC Type K, fixed cable		-60 to +1000 °C	Class 1 <sup>1)</sup>	20 sec	0602 0693
Very fast-reaction surface probe with sprung thermocouple strip, angled for uneven surfaces, measuring range briefly up to +500 °C, TC Type K, fixed cable		-60 to +300 °C	Class 2 <sup>1)</sup>	3 sec	0602 0993
Surface temperature probe TC Type K, with telescope max. 985 mm, for measurements in locations that are difficult to access, fixed cable 1.6 m (correspondingly shorter when telescope is extended)		-50 to +250 °C	Class 2 <sup>1)</sup>	3 sec	0602 2394
Magnetic probe, adhesive power approx. 20 N, with adhesive magnets, for measurements on metal surfaces, TC Type K, fixed cable		-50 to +170 °C	Class 2 <sup>1)</sup>	150 sec	0602 4792
Magnetic probe, adhesive power approx. 10 N, with adhesive magnets, for higher temperatures, for measurements on metal surfaces, TC Type K, fixed cable		-50 to +400 °C	Class 2 <sup>1)</sup>		0602 4892
Watertight surface probe with wider measuring tip for even surfaces, TC Type K, fixed cable		-60 to +400 °C	Class 2 <sup>1)</sup>	30 sec	0602 1993
Pipe wrap probe with Velcro strip, for measuring temperatures on pipes with diameters up to max. 120 mm, Tmax +120 °C, TC Type K, fixed cable		-50 to +120 °C	Class 1 <sup>1)</sup>	90 sec	0628 0020
Pipe wrap probe for pipe diameters 5 to 65 mm, with interchangeable measuring head, measuring range briefly up to +280 °C, TC Type K, fixed cable		-60 to +130 °C	Class 2 <sup>1)</sup>	5 sec	0602 4592
Replacement measuring head for pipe wrap probe, TC Type K		-60 to +130 °C	Class 2 <sup>1)</sup>	5 sec	0602 0092

# Temperature probes

Probe type	Dimensions Probe shaft/probe shaft tip	Measuring range	Accuracy	t <sub>99</sub>	Order no.
Clamp probe for measurements on pipes, pipe diameters 15 to 25 mm (max. 1"), measuring range briefly up to +130 °C, TC Type K, fixed cable		-50 to +100 °C	Class 2 <sup>1)</sup>	5 sec	0602 4692
Precise and fast immersion probe, flexible, watertight, TC Type K, fixed cable		-60 to +1000 °C	Class 1 <sup>1)</sup>	2 sec	0602 0593
Ultra-fast, watertight immersion/penetration probe, TC Type K, fixed cable		-60 to +800 °C	Class 1 <sup>1)</sup>	3 sec	0602 2693
Immersion measuring tip, flexible, TC Type K		-200 to +40 °C	Class 3 <sup>1)</sup>	5 sec	0602 5793
Immersion measuring tip, flexible, for measurements in air/flue gases (not suitable for measurements in smelters), TC Type K		-40 to +1000 °C	Class 1 <sup>1)</sup>	4 sec	0602 5693
Watertight immersion/penetration probe, TC Type K, fixed cable		-60 to +400 °C	Class 2 <sup>1)</sup>	7 sec	0602 1293
Flexible, low-mass immersion measuring tip, ideal for measurements in small volumes, such as Petri dishes, or for surface measurements (e.g. fixed with adhesive tape)	 <small>TC Type K, 2 m, FEP-insulated thermal wire, temperature-resistant up to 200 °C, oval cable with dimensions: 2.2 mm x 1.4 mm</small>	-40 to +1000 °C	Class 1 <sup>1)</sup>	1 sec	0602 0493
Watertight stainless steel food probe (IP65), TC Type K, fixed cable		-60 to +400 °C	Class 2 <sup>1)</sup>	7 sec	0602 2292
Thermocouple with TC plug, flexible, length 800 mm, fibreglass, TC Type K		-50 to +400 °C	Class 2 <sup>1)</sup>	5 sec	0602 0644
Thermocouple with TC plug, flexible, length 1500 mm, fibreglass, TC Type K		-50 to +400 °C	Class 2 <sup>1)</sup>	5 sec	0602 0645
Thermocouple with TC plug, flexible, length 1500 mm, PTFE, TC Type K		-50 to +250 °C	Class 2 <sup>1)</sup>	5 sec	0602 0646
Globe thermometer Ø 150 mm, TC Type K, for measuring radiant heat		0 to +120 °C	Class 1 <sup>1)</sup>		0602 0743

<sup>1)</sup> According to standard EN 60584-1, the accuracy of Class 1 refers to -40 to +1000 °C (Type K), of Class 2 to -40 to +1200 °C (Type K) and of Class 3 to -200 to +40 °C (Type K). A probe only ever complies with one accuracy class.

**Information about surface measurement:**

- The specified response times  $t_{99}$  are measured on polished steel or aluminium plates at +60 °C.
- The specified accuracies are sensor accuracies.
- Their accuracy in your application depends on the surface properties (roughness), the material of the measurement object (thermal capacity and heat transfer) and the sensor accuracy. Testo will produce a corresponding calibration certificate for the deviations of your measurement system in your application. For this, Testo uses a surface test bed developed in cooperation with the PTB (Physikalisch Technische Bundesanstalt - National Metrology Institute of Germany).

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