

# Data logger Temperature

## testo 175 T3

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Large, easily legible display

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High data security

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Measurement data memory for 1 million measurement values

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Up to 3 years' battery life

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Data transfer via USB cable or SD card

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Two external sensor connections  
(thermocouple Type T and Type K)

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Two parallel measurement points can be captured with one logger and two thermocouple cable probes. The testo 173 T3 logger works with two types of thermocouple probes, Type K and Type T, allowing a wide range of measurements from -50 °C to 1,000 °C to match diverse industrial, HVAC, laboratory, and healthcare applications.

The testo 175 loggers can be programmed and have data retrieved and analyzed starting with the ComSoft Basic 5 software (free download) as well as more sophisticated ComSoft Pro and ComSoft CFR

Testo Inc. offers NIST calibration services for testo 175 T3 and other loggers.

# Technical data / Accessories

## testo 175 T3

testo 175 T3, 2-channel temperature data logger with external sensor connections (TC Type T and Type K) incl. wall holder, lock, batteries and factory calibration document

Part no. 0572 1753



### General technical data

Channels	2 x external
Battery type	3 x Type AAA Alkaline or Lithium batteries
Battery life	3 years at 15 min. meas. rate
Operating temperature	-20 to +55 °C
Storage temperature	-20 to +55 °C
Dimensions	89 x 53 x 27 mm
Protection class	IP65
Measuring rate	10 s - 24 h
Memory	1 million measurement values

### Sensor types

	Type T (Cu-CuNi)	Type K (NiCr-Ni)
Measuring range	-50 to +400 °C	-50 to +1000 °C
Accuracy ±1 digit	±0.5 °C (-50 to +70 °C) ±0.7 % of m.v. (+70.1 to +1000 °C)	±0.5 °C (-50 to +70 °C) ±0.7 % of m.v. (+70.1 to +1000 °C)
Resolution	0.1 °C	0.1 °C







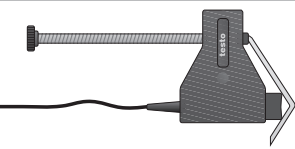


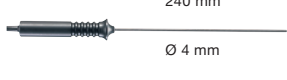
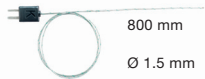
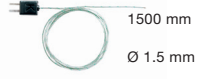
### Accessories

Part no.

#### Accessories for measuring instrument

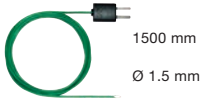
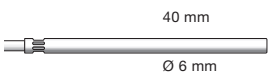


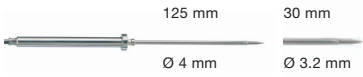
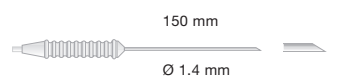

	Part no.
Mobile thermal printer for data loggers testo 175/176/184	0572 0576
Wall holder (black) with lock for testo 175	0554 1702
Cable for connecting the data loggers testo 175 and testo 176 to the PC, 5 Pin Mini USB (B) to USB (A)	0449 0047
SD card - for collecting the measurement data from the data loggers testo 175 and testo 176; 2 GB; application range to -20 °C	0554 8803
ComSoft Basic 5 Software used to program and readout loggers. Includes graphs, tables, and export function. Order as a CD, or go to <a href="http://testo.com">testo.com</a> for a free download	0572 0580
ComSoft Professional, Pro software incl. data archiving	0554 1704
ComSoft CFR 21 Part 11, Software for requirements according to CFR 21 Part 11 for Testo data loggers	0554 1705
NIST calibration certificate temperature temperature probe; calibration points 10 °C; 25 °C; 40 °C or -20 °C; 25 °C; 40 °C per channel/instrument	400520 1901

# Probes

Probe type	Dimensions Probe shaft/probe shaft tip	Measuring range	Accuracy	t <sub>99</sub>	Part no.
<b>Probes Type K</b>					
Immersion tip, flexible, TC Type K	 Ø 1.5 mm 500 mm	-200 to +1000 °C	Class 1 <sup>1)</sup>	5 s	0602 5792
Immersion tip, flexible, TC Type K	 Ø 1.5 mm 500 mm	-200 to +40 °C	Class 3 <sup>1)</sup>	5 s	0602 5793
Immersion measurement tip, flexible, for measurements in air/exhaust gases (not suitable for measurements in smelters), TC Type K	 Ø 3 mm 1000 mm	-200 to +1300 °C	Class 1 <sup>1)</sup>	4 s	0602 5693
Magnetic probe, adhesive force approx. 20 N, with magnets, for measurements on metal surfaces, TC Type K, Fixed cable	 35 mm Ø 20 mm	-50 to +170 °C	Class 2 <sup>1)</sup>	150 s	0602 4792
Magnetic probe, adhesive force approx. 10 N, with magnets, for higher temp., for measurements on metal surfaces, TC Type K, Fixed cable	 75 mm Ø 21 mm	-50 to +400 °C	Class 2 <sup>1)</sup>		0602 4892
Pipe wrap probe with velcro strip; for temperature measurement on pipes with diameter up to max. 120 mm; Tmax. +120 °C; TC Type K, Fixed cable 1.5 m	 395 mm 20 mm	-50 to +120 °C	Class 1 <sup>1)</sup>	90 s	0628 0020
Pipe wrap probe for pipe diameter 5 to 65 mm, with exchangeable measuring head. Meas. range short-term up to +280 °C, TC Type K, Fixed cable 1.2 m		-60 to +130 °C	Class 2 <sup>1)</sup>	5 s	0602 4592
Clamp probe for measurements on pipes, pipe diameter 15 to 25 mm (max. 1"), meas. range short-term up to +130°C, TC Type K, Fixed cable		-50 to +100 °C	Class 2 <sup>1)</sup>	5 s	0602 4692
Waterproof food probe made of stainless steel (IP65), TC Type K, Fixed cable	 125 mm 30 mm Ø 4 mm Ø 3.2 mm	-60 to +400 °C	Class 2 <sup>1)</sup>	7 s	0602 2292
Waterproof robust immersion/penetration probe with metal protection hose Tmax +230°C, e.g. for monitoring temp. in cooking oil, T/C Type K, Fixed cable	 240 mm Ø 4 mm	-50 to +230 °C	Class 1 <sup>1)</sup>	15 s	0628 1292
Thermocouple with TC adapter, flexible, 800 mm long, fibre glass, TC Type K	 800 mm Ø 1.5 mm	-50 to +400 °C	Class 2 <sup>1)</sup>	5 s	0602 0644
Thermocouple with TC adapter, flexible, length 1500 mm, fibreglass, TC Type K	 1500 mm Ø 1.5 mm	-50 to +400 °C	Class 2 <sup>1)</sup>	5 s	0602 0645

1) 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).

# Probes

Probe type	Dimensions Probe shaft/probe shaft tip	Measuring range	Accuracy	t <sub>99</sub>	Part no.
<b>Probes Type K</b>					
Thermocouple with TC adapter, flexible, 1500 mm long, PTFE, TC Type K		-50 to +250 °C	Class 2 <sup>1)</sup>	5 s	0602 0646
Stationary probe with stainless steel sleeve, TC Type K, Fixed cable 1.9 m		-50 to +205 °C	Class 2 <sup>1)</sup>	20 s	0628 7533
Flexible, low-mass immersion measurement tip, ideal for measurements in small volumes such as petri dishes, or for surface measurements (e.g. attached with adhesive tape), TC Type K, 2 m, FEP insulated thermal wire, temperature proof up to 200 °C, oval wire with dimensions: 2.2 mm x 1.4 mm		-200 to +1000 °C	Class 1 <sup>1)</sup>	1 s	0602 0493
<b>Probes Type T</b>					
Frozen food probe, corkscrew design, T/C Type T, Plug-in cable		-50 to +350 °C	±0.2 °C (-20 to +70 °C) Class 1 (remaining range) <sup>2)</sup>	8 s	0603 3292
Stainless steel food probe (IP67), with FEP cable to +200 °C, TC Type T, Fixed cable		-50 to +350 °C	±0.2 °C (-20 to +70 °C) Class 1 (remaining range) <sup>2)</sup>	7 s	0603 3392
Waterproof, super-quick needle probe for measurements without visible penetration hole, T/C Type T, Fixed cable		-50 to +250 °C	±0.2 °C (-20 to +70 °C) Class 1 (remaining range) <sup>2)</sup>	2 s	0628 0027
Flexible oven probe, Tmax +250 °C, PTFE cable		-50 to +250 °C	Class 1 <sup>2)</sup>		0603 0646

1) 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).  
2) According to standard EN 60584-2, the accuracy of Class 1 refers to -40 to +350 °C (Type T).

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Subject to change without notice.

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