

# Data logger Temperature

## testo 175 T3

Large, easily legible display

High data security

Measurement data memory for 1 million measurement values

Up to 3 years' battery life

Data transfer via USB cable or SD card

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



Illustration 1:1



IP65

Temperature often needs to be monitored and recorded simultaneously at two sites. The testo 175 T3 is excellently suited to this job, thanks to two connections for external thermocouple probes (Type K and Type T). The wide measuring range makes the data logger universally applicable.

The free ComSoft Basic software allows fast programming of the data logger and easy data analysis.

In the autumn, the heating period begins, and with it the time for complaints by tenants that their apartments cannot be heated to the desired extent. With the testo 175 T3 and the versatile external thermocouple probes, you can, for example, perform targeted checks on the flow and return temperatures of individual radiators, in order to identify and remedy causes.

## 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 calibration protocol

Part no. 0572 1753



#### General technical data

Channels	2 x external
Battery type	3 x AIMn Typ AAA or Energizer
Battery life	3 years (15 min. measuring cycle, +25 °C)
Operating temperature	-20 to +55 °C
Storage temperature	-20 to +55 °C
Dimensions	96 x 54 x 29 mm
Weight	130 g
Housing	ABS/PC
EC Directive	2004/108/EC
Protection class	IP65
Measuring rate	10 s - 24 h
Memory	1 mio. measurement values

#### Sensor types

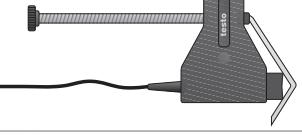
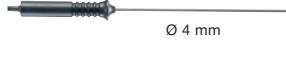
	Type T (Cu-CuNi)	Type K (NiCr-Ni)
Measuring range	-50 to +400 °C	-50 to +1000 °C
Accuracy ±1 digit	±0.5 °C (-50 to +70 °C) ±0.7 % of m.v. (+70.1 to +400 °C)	±0.5 °C (-50 to +70 °C) ±0.7 % of m.v. (+70.1 to +1000 °C)
Resolution	0.1 °C	0.1 °C

#### Accessories for measuring instrument

#### Part no.

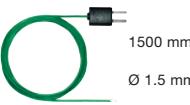
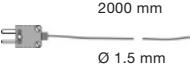
Mobile printer for data loggers testo 175/176/184	0572 0576	
Wall holder (black) with lock for testo 175	0554 1702	
Cable for connecting the data loggers testo 175 and testo 176 to the PC, Mini-USB to USB	0449 0047	
SD card - for collecting the measurement data from the data loggers testo 175 and testo 176; 2 GB; application range to -20 °C	0554 8803	
Battery for testo 175 Range of application to -10 °C, alkali manganese microcell AAA (please order 3 batteries per logger)	0515 0009	
ComSoft Basic, Basic software for programming and readout of Testo data loggers; graphic and tabular measurement value presentation as well as export function (free download at <a href="http://www.testo.com">www.testo.com</a> )	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	
ISO calibration certificate temperature temperature probe; calibration points -18 °C; 0 °C; +40 °C per channel/instrument	0520 0153	
DAkkS calibration certificate temperature temp. data logger; cal. points -20°C; 0°C; +60°C; per channel/instrument	0520 0261	

# Probes

Probe type	Dimensions Probe shaft/probe shaft tip	Measuring range	Accuracy	$t_{99}$	Part no.
<b>Probes Type K</b>					
Immersion tip, flexible, TC Type K		-40 to +1000 °C	Class 1 <sup>1)</sup>	5 s	0602 5792
Immersion tip, flexible, TC Type K		-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		-40 to +1000 °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		-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		-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		-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		-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		-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		-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		-50 to +400 °C	Class 2 <sup>1)</sup>	5 s	0602 0645

1) According to standard EN 60584-1, 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	$t_{99}$	Part no.
<b>Probes Type K</b>					
Thermocouple with TC adapter, flexible, 1500 mm long, PTFE, TC Type K	 1500 mm Ø 1.5 mm	-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	 40 mm Ø 6 mm	-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	 Ø 0.25 mm   500 mm	-40 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	 110 mm Ø 8 mm	-50 to +350 °C	$\pm 0.2^\circ\text{C}$ (-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	 125 mm Ø 4 mm	-50 to +350 °C	$\pm 0.2^\circ\text{C}$ (-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	 150 mm Ø 1.4 mm	-50 to +250 °C	$\pm 0.2^\circ\text{C}$ (-20 to +70 °C) Class 1 (remaining range) <sup>2)</sup>	2 s	0628 0027
Flexible oven probe, Tmax +250 °C, PTFE cable	 2000 mm Ø 1.5 mm	-50 to +250 °C	Class 1 <sup>2)</sup>		0603 0646

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

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Subject to change without notice.