

# Data logger Temperature

testo 175 T1 / testo 175 T2

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High data security

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Large, easily legible display

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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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Complies with DIN EN 12830

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Illustration 1:1

The testo 175 T1 is the compact data logger for the long-term monitoring of refrigerated and deep-freeze rooms as well as for the documentation of transport temperature in delivery vehicles. The large 1 million measurement value memory and the long-life batteries allow readout at greater intervals, in spite of the shorter measurement rate. The free ComSoft Basic software allows fast programming of the

data logger and easy data analysis. The version testo175 T2 additionally has a connection for an external NTC temperature probe for measuring the core temperature of goods, for example. Like all Testo data loggers for applications in the food sector, the testo 175 T1 and testo 175 T2 are tested according to DIN EN 12830 by the ATP testing section of the TÜV Süd for HACCP purposes.

## Technical data

### testo 175 T1

testo 175 T1, 1-channel temperature logger with internal sensor (NTC) incl. wall holder, lock, batteries and calibration protocol

Part no. 0572 1751



### Set testo 175 T1

Starter set testo 175 T1 consisting of:

- 3 x testo 175 T1
- 1 x USB cable
- 1 x SD card
- 1 x CD ComSoft Basic 5

Part no. 0572 1750

### testo 175 T2

testo 175 T2, 2-channel temperature data logger with internal (NTC), and external sensor connection (NTC) incl. wall holder, lock, batteries and calibration protocol

Part no. 0572 1752



### General technical data



Battery type	3 x AIMn Type AAA or Energizer
Battery life	3 years (15 min. meas. rate, +25 °C)
Oper. temp.	-35 to +55 °C
Storage temp.	-35 to +55 °C
Dimensions	89 x 53 x 27 mm
Protection class	IP65
Measuring rate	10 s - 24 h
Memory	1 mio. measurement values

	testo 175 T1	testo 175 T2
<b>Sensor type</b>	<b>NTC</b>	<b>NTC</b>
Channels	1 x internal	1 x internal, 1 x external
Meas. range	-35 to +55 °C	-35 to +55 °C int. -40 to +120 °C ext.
Accuracy ±1 digit	±0.5 °C (-35 to +55 °C)	±0.5 °C (-35 to +55 °C) int. external: dependent on the selected probe type
Resolution	0.1 °C	0.1 °C



Lateral connection of Mini USB cable and SD card



Probe connection at lower end of housing for external NTC probe (testo 175 T2 only)

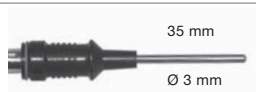
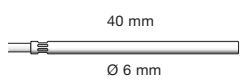
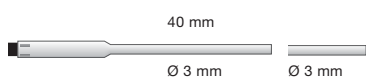
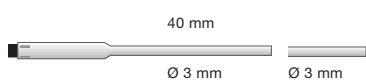
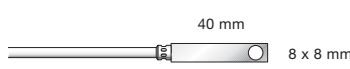
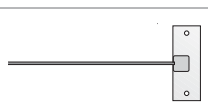



Large, clear display for showing measurement values

## Accessories






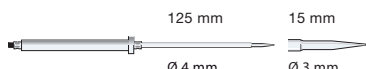

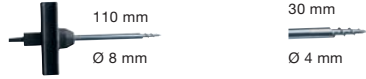
Accessories for measuring instrument	Part no.
Wall holder (black) with lock for testo 175	0554 1702
Cable for connecting the data loggers testo 175 and testo 176 to the PC, Mini-USB to USB	0449 0047
SD card - for collecting the measurement data from the data loggers testo 175 and testo 176; 2 GB; application 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
Battery for testo 175 - Application range below -10 °C, Energizer L92 microcells AAA (please order 3 batteries per logger)	0515 0042
ComSoft Basic, Basic software for programming and readout of Testo data loggers; graphic and tabular measurement value presentation as well as export function (if free download with registration not desired)	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 <sub>99</sub>	Part no.
<b>NTC</b>					
Stub probe, IP 54	 35 mm Ø 3 mm	-20 to +70 °C	±0.2 °C (-20 to +40 °C) ±0.4 °C (+40.1 to +70 °C)	15 s	0628 7510
Stationary probe with aluminium sleeve, IP 65, Fixed cable 2.4 m	 40 mm Ø 6 mm	-30 to +90 °C	±0.2 °C (0 to +70 °C) ±0.5 °C (remaining range)	190 s	0628 7503 <sup>1)</sup>
Accurate imm./pen. probe, 6m cable, IP 67, Fixed cable	 40 mm Ø 3 mm    Ø 3 mm	-35 to +80 °C	±0.2 °C (-25 to +74.9 °C) ±0.4 °C (remaining range)	5 s	0610 1725
Accurate immersion/penetration probe, cable: 1.5 m long, IP 67, Fixed cable 1.5 m	 40 mm Ø 3 mm    Ø 3 mm	-35 to +80 °C	±0.2 °C (-25 to +74.9 °C) ±0.4 °C (-35 to -25.1 °C) ±0.4 °C (+75 to +80 °C)	5 s	0628 0006 <sup>1)</sup>
Probe for surface measurement, Fixed cable, 2 m	 40 mm 8 x 8 mm	-50 to +80 °C	±0.2 °C (0 to +70 °C)	150 s	0628 7516
Wall surface temperature probe, e.g. to prove damage in building material, Fixed cable, 3 m	 40 mm 8 x 8 mm	-50 to +80 °C	±0.2 °C (0 to +70 °C)	20 s	0628 7507
Penetration probe NTC with ribbon cable, cable length 2 m, IP 54, Fixed cable,	 60 mm    30 mm Ø 5 mm    Ø 3.6 mm	-40 to +125 °C	±0.5 % of mv (+100 to +125 °C) ±0.2 °C (-25 to +80 °C) ±0.4 °C (remaining range)	8 s	0572 1001

<sup>1)</sup> Probe tested according to EN 12830 for suitability in the transport and storage applications

## Probes

Probe type	Dimensions Probe shaft/probe shaft tip	Measuring range	Accuracy	t <sub>99</sub>	Part no.
<b>NTC</b>					
Efficient, robust NTC air probe, Fixed cable, 1.2 m	 115 mm 50 mm Ø 5 mm Ø 4 mm	-50 to +125 °C	±0.2 °C (-25 to +80 °C) ±0.4 °C (remaining range)	60 s	0613 1712
Waterproof NTC surface probe for flat surfaces, Fixed cable, 1.2 m	 115 mm 50 mm Ø 5 mm Ø 6 mm	-50 to +150 °C	±0.5% of mv (+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	 300 mm	-50 to +70 °C	±0.2 °C (-25 to +70 °C) ±0.4 °C (-50 to -25.1 °C)	60 s	0613 4611
Waterproof NTC immersion/penetration probe, Fixed cable 1.2 m	 115 mm 50 mm Ø 5 mm Ø 4 mm	-50 to +150 °C	±0.5% of mv (+100 to +150 °C) ±0.2 °C (-25 to +74.9 °C) ±0.4 °C (remaining range)	10 s	0613 1212
Stainless steel NTC food probe (IP65) with PUR cable, Fixed cable 1.6 m	 125 mm 15 mm Ø 4 mm Ø 3 mm	-50 to +150 °C <sup>1)</sup>	±0.5% of mv (+100 to +150 °C) ±0.2 °C (-25 to +74.9 °C) ±0.4 °C (remaining range)	8 s	0613 2211 <sup>2)</sup>
Stainless steel NTC food probe (IP67) with PTFE cable to +250 °C, Fixed cable	 125 mm 15 mm Ø 4 mm Ø 3 mm	-50 to +150 °C	±0.5% of mv (+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	 115 mm 30 mm Ø 5 mm Ø 3.5 mm	-25 to +150 °C <sup>1)</sup>	±0.5% of mv (+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)	 110 mm 30 mm Ø 8 mm Ø 4 mm	-50 to +140 °C <sup>1)</sup>	±0.5% of mv (+100 to +140 °C) ±0.2 °C (-25 to +74.9 °C) ±0.4 °C (remaining range)	20 s	0613 3211

1) Long-term measurement range +125 °C, short-term +150 °C (2 minutes)

2) Probe tested according to EN 12830 for suitability in the transport and storage applications