Data logger Temperature

testo 175 T1 / testo 175 T2

High data security

Large, easily legible display

Measurement data memory for 1 million measurement values

Up to 3 years' battery life

Data transfer via USB cable or SD card

Complies with DIN EN 12830

°C

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 AlMn 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
Sensor type	**NTC**	**NTC**
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

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)

°C

Illustration 1:1

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 appartments 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 AlMn Typ AAA or Energizer
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 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 mv (+70.1 to +1000 °C)	±0.5 °C (-50 to +70 °C) ±0.7 % of mv (+70.1 to +1000 °C)
Resolution	0.1 °C	0.1 °C

Accessories

Part no.

Accessories for measuring instrument

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 (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

Data logger
Temperature and humidity

testo 175 H1

High level of data security

Large, easily legible display

Measurement data memory for 1 million measurement values

Up to 3 years' battery life

Data transfer via USB cable or SD card

Permanently installed external capacitive humidity sensor

°C

%RH

td

g/m³

With its long-term stable humidity sensor, the testo 175 H1 is the professional data logger for the monitoring of temperature and relative humidity in work and storage rooms. The external humidity probe (stub) stands out thanks to faster reaction times in comparison to probes installed inside the housing. Energy savings are an important topic for buildings. The free ComSoft Basic software allows fast

programming of the data logger as well as easy data analysis.The testo 175 H1 continuously records temperature and humidity values and, in addition to temperature and humidity, also shows the dewpoint in the display if required. The indoor climate is thus monitored, emphasizing the need for targeted ventilation and air exchange.

Technical data / Accessories

testo 175 H1

testo 175 H1, 2-channel temperature and humidity data logger with external humidity sensor (NTC/capacitive humidity sensor), incl. wall holder, lock, batteries and calibration protocol

Part no. 0572 1754

General technical data

Channels	2 x internal (stump)
Battery type	3 x AlMn Type AAA or Energizer
Battery life	3 years at 15 min. meas. rate
Oper. temp.	-20 to +55 °C
Storage temp.	-20 to +55 °C
Dimensions	149 x 53 x 27 mm
Protection class	IP54
Measuring rate	10 s - 24 h
Memory	1 mio. measurement values

Sensor types

	NTC	Calc. parameter td	Testo humid. sensor, cap.
Meas. range	-20 to +55 °C	-40 to +50 °C$_{td}$	0 to 100 %RH*
Accuracy ±1 digit	±0.4 °C (-20 to +55 °C)	+0.03 %RH/K	±2 %RH (2 to 98 %RH) at +25 °C
Resolution	0.1 °C		0.1 %RH

* Not for condensing atmospheres. For continuous use in high humidity (>80 %RH at ≤30 °C for >12 h, >60 %RH at >30 °C for >12 h), please contact us via our website.

Accessories

	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	
ISO calibration certificate humidity calibration points 11.3 %RH and 75.3 %RH at +25 °C/+77 °F; per channel/instrument	0520 0076	
DAkkS calibration certificate humidity humidity probe; cal. points 11.3%RH and 75.3%RH at +25°C; per channel/instrument	0520 0246	

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