



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



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)

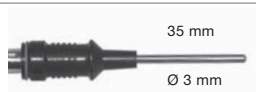
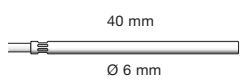
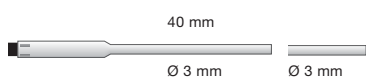
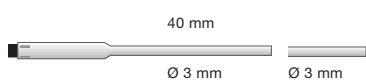
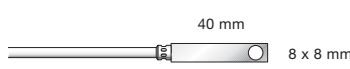




Large, clear display for showing measurement values

Accessories

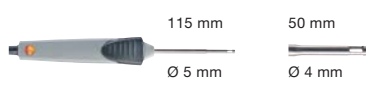
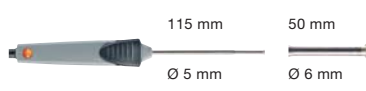

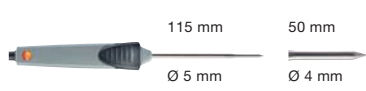

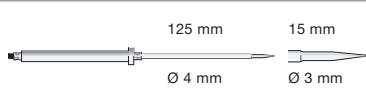

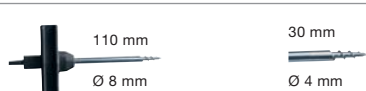
| Accessories for measuring instrument | Part no. |
|---|-----------|
| Wall holder (black) with lock for testo 175 | 0554 1702 |
| Cable for connecting the data loggers testo 175 and testo 176 to the PC, Mini-USB to USB | 0449 0047 |
| SD card - for collecting the measurement data from the data loggers 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 ₉₉ | Part no. |
|---|--|-----------------|--|-----------------|-------------------------|
| NTC | | | | | |
| 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 ¹⁾ |
| 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 ¹⁾ |
| 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 Ø 3 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 |

¹⁾ 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 ₉₉ | Part no. |
|--|---|------------------------------|---|-----------------|-------------------------|
| NTC | | | | | |
| 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 ¹⁾ | ±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 ²⁾ |
| 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 ¹⁾ | ±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 ¹⁾ | ±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