

Data logger Temperature

testo 176 T3 / testo 176 T4

High data security

Thermocouples Type T, Type K, Type J connectable

Simultaneous measurement at four sites

Measurement data memory for 2 million measurement values

Up to 8 years' battery life

Data transfer via USB cable or SD card

In a metal housing for more robustness (testo 176 T3) or with a large display for a clearer overview (testo 176 T4)



It is often important to check whether the prescribed temperature values in a process are really being adhered to. The testo 176 T3 in its robust metal housing is the right data logger for measuring and recording temperatures simultaneously at four different sites in industrial processes. Thanks to the broad selection of connectable thermocouple probes, the requirements of the most widely differing applications can be fulfilled.

Users of the testo 176 T4 can additionally count on a clear display which provides information on measurement values and limit value violations on site. This allows the user to obtain a quick overview without having to read out the logger on a PC. The free ComSoft Basic software allows fast programming of the data logger and easy data analysis.

Technical data / Accessories

testo 176 T3

testo 176 T3, 4-channel temperature data logger in metal housing with external sensor connection (TC Type T, Type K and Type J) incl. wall holder, lock, batteries and calibration protocol

Part no. 0572 1763



General technical data

| | |
|-----------------------|------------------------------------------------------------------------|
| Channels | 4 x external |
| Battery type | 1 x Lithium (TL-5903) |
| Battery life | 8 years (15 min. measuring cycle, +25 °C) |
| Operating temperature | -20 to +70 °C |
| Storage temperature | -40 to +85 °C |
| Dimensions | 103 x 63 x 33 mm |
| Weight | approx. 430 g (testo 176 T3) approx. 230 g (testo 176 T4) |
| Protection class | IP65 |
| Measuring rate | 1 s to 24 h (freely selectable, for online measurement 2 s to 24 h) |
| Memory | 2 mio. measurement values |

testo 176 T4

testo 176 T4, 4-channel temperature data logger with external sensor connections (TC Type T, Type K and Type J) incl. wall holder, lock, batteries and calibration protocol

Part no. 0572 1764



Lateral connection of Mini USB cable and SD card



Probe connection at lower end of housing for four thermocouple probes (Type T, K and J)

Sensor types






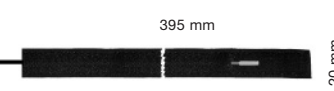
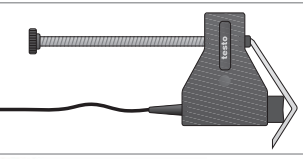


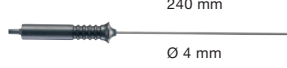

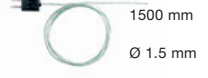
| | Type T (Cu-CuNi) | Type K (NiCr-Ni) | Type J (Fe-CuNi) |
|----------------------|---------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|---------------------------------------------------------------|
| Measuring range | -200 to +400 °C | -195 to +1000 °C | -100 to +750 °C |
| Accuracy ±1 digit | ±1 % of m.v. (-200 to -100.1 °C) ±0.3 °C (-100 to +70 °C) ±0.5 % of m.v. (+70.1 to +400 °C) | ±1 % of m.v. (-195 to -100.1 °C) ±0.3 °C (-100 to +70 °C) ±0.5 % of m.v. (+70.1 to +1000 °C) | ±0.3 °C (-100 to +70 °C) ±0.5 % of m.v. (+70.1 to +750 °C) |
| Resolution | 0.1 °C | 0.1 °C | 0.1 °C |

Accessories

Part no.

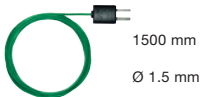



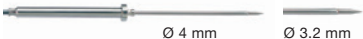
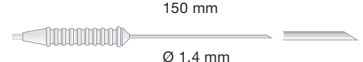

| | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| Mobile printer for data loggers testo 175/176/184 | 0572 0576 |
| Wall holder (black) for testo 176 | 0554 1703 |
| 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 176 -1 x TL-5903 AA cell | 0515 1760 |
| 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 |
| Heat protection container, protects from temperatures up to +200 °C | 0572 9999 Ident. no. 0699 6995/1 |
| 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. |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|------------------|-----------------------|-----------------|-----------|
| Probes Type K | | | | | |
| Immersion tip, flexible, TC Type K |  Ø 1.5 mm 500 mm | -200 to +1000 °C | Class 1 ¹⁾ | 5 s | 0602 5792 |
| Immersion tip, flexible, TC Type K |  Ø 1.5 mm 500 mm | -200 to +40 °C | Class 3 ¹⁾ | 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 ¹⁾ | 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 ¹⁾ | 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 ¹⁾ | | 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 ¹⁾ | 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 ¹⁾ | 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 ¹⁾ | 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 ¹⁾ | 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 ¹⁾ | 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 ¹⁾ | 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 ¹⁾ | 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 ₉₉ | Part no. |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|------------------|--------------------------------------------------------------------|-----------------|-----------|
| Probes Type K | | | | | |
| Thermocouple with TC adapter, flexible, 1500 mm long, PTFE, TC Type K |  1500 mm Ø 1.5 mm | -50 to +250 °C | Class 2 ¹⁾ | 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 ¹⁾ | 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 | -200 to +1000 °C | Class 1 ¹⁾ | 1 s | 0602 0493 |
| Probes Type T | | | | | |
| Frozen food probe, corkscrew design, T/C Type T, Plug-in cable |  110 mm 30 mm Ø 8 mm Ø 4 mm | -50 to +350 °C | ±0.2 °C (-20 to +70 °C) Class 1 (remaining range) ²⁾ | 8 s | 0603 3292 |
| Stainless steel food probe (IP67), with FEP cable to +200 °C, TC Type T, Fixed cable |  125 mm 30 mm Ø 4 mm Ø 3.2 mm | -50 to +350 °C | ±0.2 °C (-20 to +70 °C) Class 1 (remaining range) ²⁾ | 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 | ±0.2 °C (-20 to +70 °C) Class 1 (remaining range) ²⁾ | 2 s | 0628 0027 |
| Flexible oven probe, Tmax +250 °C, PTFE cable |  2000 mm Ø 1.5 mm | -50 to +250 °C | Class 1 ²⁾ | | 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).

0981 3924/msp/l/01_2018

Subject to change without notice.

LERDTHAI
SUPPLY

บริษัท เลิศไทยซัพพลาย จำกัด

82/29 หมู่ 8 ตำบลมาบโป่ง อำเภอบ้านนา จังหวัดชลบุรี 20160

Tel : 098-3610310 E-mail : info@lerdthaisupply.co.th

Data logger

Temperature and humidity

testo 176 H1 / testo 176 H2

High level of data security

For two external temperature/humidity probes

Parallel measurement at two sites

Measurement data memory 2 million measurement values

Up to 8 years' battery life

Data transfer via USB cable or SD card

In metal housing for more robustness (testo 176 H2) or with a large display for a clearer overview (testo 176 H1)



When short-term measurements show no anomalies, but the ambient storage conditions still do not fulfil the desired requirements, the testo 176 H1 or testo 176 H2 is the right data logger. Both models have two connections for external temperature and humidity probes which can be positioned in a room according to individual requirements. The metal housing of the testo 176 H2 guarantees

robustness and protects from mechanical influences such as impact. This ensures a long lifetime even in rough surroundings. The clear display of the testo 176 H1, on the other hand, provides on-site information on measurement values and limit value violations. The free ComSoft Basic software allows fast programming of the data logger as well as easy data analysis.

Technical data

testo 176 H1

testo 176 H1, 4-channel temperature and humidity data logger with external sensor connections (NTC/capacitive humidity sensor) incl. wall holder, lock, battery and calibration protocol

Part no. 0572 1765



testo 176 H2

testo 176 H2, 4-channel temperature and humidity data logger in metal housing with external sensor connections (NTC/capacitive humidity sensor) incl. wall holder, lock, battery and calibration protocol

Part no. 0572 1766



Sensor type NTC

| | |
|----------------------|------------------------------------------------------|
| Measuring range | -20 to +70 °C |
| Accuracy ±1 digit | ±0.2 °C (-20 to +70 °C) ±0.4 °C (remaining range) |
| Resolution | 0.1 °C |

Sensor type Testo humid. sensor, cap.

| | |
|----------------------|-----------------------------|
| Measuring range | 0 to 100 %RH* |
| Accuracy ±1 digit | dependent on selected probe |
| Resolution | 0.1 %RH |

* Not for condensing atmospheres. For continuous applications 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.

General technical data

| | |
|-----------------------|------------------------------------------------------------------------|
| Channels | 2 probes, 4 external channels |
| Battery type | 1 x Lithium (TL-5903) |
| Battery life | 8 years (15 min. measuring cycle, +25 °C) |
| Operating temperature | -20 to +70 °C |
| Storage temperature | -40 to +85 °C |
| Dimensions | 103 x 63 x 33 mm |
| Weight | 220 g (testo 176 H1) approx. 430 g (testo 176 H2) |
| EC Directive | 2014/30/EU |
| Protection class | IP65 |
| Measuring rate | 1 s to 24 h (freely selectable, for online measurement 2 s to 24 h) |
| Memory | 2 mio. measurement values |
| Interface | Mini USB, SD card slot |



Lateral connection of Mini USB cable and SD card



Probe connection at lower end of housing for two temperature/humidity probes







Large, clear display for showing measurement values

Accessories

| Accessories for measuring instrument | Part no. |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| Mobile printer for data loggers testo 175/176/184 | 0572 0576 |
| Wall holder (black) for testo 176 | 0554 1703 |
| 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 176 -1 x TL-5903 AA cell | 0515 1760 |
| 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 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 |
| 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 | Part no. |
|----------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|-----------------------------------------------------------------------|-----------|
| Humidity/temperature probes | | | | |
| Humidity/temperature probe 12 mm |  | -20 to +70 °C 0 to 100 %RH | ±0.3 °C ±2 %RH at +25 °C (2 to 98 %RH) ±0.03 %RH/K ± 1 digit | 0572 6172 |
| Humidity/temperature probe 4 mm |  | 0 to +40 °C 0 to 100 %RH | ±0.3 °C ±2 %RH at +25 °C (2 to 98 %RH) ±0.08 %RH/K ± 1 digit | 0572 6174 |
| Plug-in humidity/temperature probe 12 mm |  | -30 to +50 °C 0 to 100 %RH | ±0.3 °C ±2 %RH at +25 °C (2 to 98 %RH) | 0572 2151 |
| Wall surface temperature probe (connectable only to testo 176 H1) |  | -50 to +80 °C | ±0.5 °C (-40 to -25 °C) ±0.2 °C (-25 to +80 °C) | 0628 7507 |

LERDTHAI
SUPPLY

บริษัท เลิศไทยซัพพลาย จำกัด

82/29 หมู่ 8 ตำบลมาบโป่ง อำเภอพานทอง จังหวัดชลบุรี 20160

Tel : 098-3610310 E-mail : info@lerdthaisupply.co.th

Data logger

Pressure, temperature and humidity

testo 176 P1

High level of data security

Internal absolute pressure sensor and connection possibility for two external temperature/humidity probes

Parallel temperature/humidity measurement at two sites

Measurement data memory 2 million measurement values

Up to 8 years' battery life

Data transfer via USB cable or SD card



hPa

°C

%RH

td

g/m³

inch
H₂O



IP54

When ambient conditions need to be documented extremely accurately and securely, for example in a laboratory, the testo 176 P1 is the right data logger. It has an internal absolute pressure sensor and connection possibilities for two external temperature/humidity probes.

An integrated dewpoint calculation makes it universally applicable. The free ComSoft Basic software allows fast programming and easy data analysis.

Technical data / Accessories

testo 176 P1

testo 176 P1, 5-channel pressure, temperature and humidity data logger with internal sensor (absolute pressure) and external sensor connections (NTC/capacitive humidity sensor) incl. wall holder, lock, battery and calibration protocol

Part no. 0572 1767



General technical data

| | |
|-----------------------|-----------------------------------------------------------------------------|
| Channels | 1 x internal, 2 probes external, 4 external channels (temperature/humidity) |
| Battery type | 1 x Lithium (TL-5903) |
| Battery life | 8 years (15 min. measuring cycle, +25 °C) |
| Operating temperature | -20 to +70 °C |
| Storage temperature | -40 to +85 °C |
| Dimensions | 103 x 63 x 33 mm |
| Weight | 230 g |
| Protection class | IP54 |
| Measuring rate | 1 s to 24 h (freely selectable, for online measurement 2 s to 24 h) |
| Memory | 2 mio. measurement values |
| Interface | Mini USB, SD card slot |

Sensor types

| | NTC | Testo humid. sensor, cap. | Absolute pressure sensor |
|----------------------|------------------------------------------------------|-----------------------------|--------------------------|
| Measuring range | -20 to +70 °C | 0 to 100 %RH* | 600 to 1100 mbar |
| Accuracy ±1 digit | ±0.2 °C (-20 to +70 °C) ±0.4 °C (remaining range) | dependent on probe selected | ±3 mbar (0 to +50 °C) |
| Resolution | 0.1 °C | 0.1 %RH | 1 mbar |

* Not for condensing atmospheres. For continuous applications 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.



Lateral connection of Mini USB cable and SD card



Probe connection at lower end of housing for two temperature/humidity probes







Large, clear display for showing measurement values

Accessories

| Accessories for measuring instrument | Part no. |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| Mobile printer for data loggers testo 175/176/184 | 0572 0576 |
| Wall holder (black) for testo 176 | 0554 1703 |
| 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 176 -1 x TL-5903 AA cell | 0515 1760 |
| 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 |
| ISO calibration certificate pressure accuracy 0.1 to 0.6 (% of fsv), 5 points distributed over meas. range | 0520 0025 |
| DAkkS calibration certificate/pressure diff. and pos. pressure; 11 measuring points distributed over the instr. meas. range | 0520 0215 |

Probes

| Probe type | Dimensions Probe shaft/probe shaft tip | Measuring range | Accuracy | Part no. |
|------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|-----------------------------------------------------------------------|-----------|
| Humidity/temperature probes | | | | |
| Humidity/temperature probe 12 mm |  | -20 to +70 °C 0 to 100 %RH | ±0.3 °C ±2 %RH at +25 °C (2 to 98 %RH) ±0.03 %RH/K ± 1 digit | 0572 6172 |
| Humidity/temperature probe 4 mm |  | 0 to +40 °C 0 to 100 %RH | ±0.3 °C ±2 %RH at +25 °C (2 to 98 %RH) ±0.08 %RH/K ± 1 digit | 0572 6174 |
| Plug-in humidity/temperature probe 12 mm |  | -30 to +50 °C 0 to 100 %RH | ±0.3 °C ±2 %RH at +25 °C (2 to 98 %RH) | 0572 2151 |
| Wall surface temperature probe |  | -50 to +80 °C | ±0.5 °C (-40 to -25 °C) ±0.2 °C (-25 to +80 °C) | 0628 7507 |

LERDTHAI
SUPPLY

บริษัท เลิศไทยซัพพลาย จำกัด

82/29 หมู่ 8 ตำบลมาบโป่ง อำเภอบ้านนา จังหวัดชลบุรี 20160

Tel : 098-3610310 E-mail : info@lerdthaisupply.co.th

Data logger Temperature

testo 176 T1 / testo 176 T2

High data security

Highly accurate measurement with Pt100 sensor

Measurement data memory for 2 million measurement values

Up to 8 years' battery life

Data transfer via USB cable or SD card

In a metal housing and with an internal sensor for more robustness (testo 176 T1) or with a large display and two external sensor connections for a clearer overview (testo 176 T2)



When highly accurate temperature control under extreme conditions is required, the testo 176 T1 is the right choice. In the interior, a precise Pt100 sensor measures the temperature. The testo 176 T1 is excellently suited to the recording of temperatures over long periods. The metal housing is resistant to extreme mechanical influences and hard impacts, making the data logger suitable for use in industrial surroundings. The free ComSoft Basic software allows fast programming of the data logger and easy data analysis.

The testo 176 T2, with its two inputs for external Pt100 probes, is the right data logger for simultaneous measurement at two measurement sites. A reference class data logger which can also be used to calibrate other data loggers.

Like all Testo data loggers for use in the food sector, the testo 176 T1 and testo 176 T2 are tested by the ATP testing section of the TÜV Süd according to DIN EN 12830.

Technical data

testo 176 T1

testo 176 T1, 1-channel temperature logger in metal housing with highly accurate internal sensor (Pt100) incl. wall holder, lock, battery and calibration protocol

Part no. 0572 1761



testo 176 T2

testo 176 T2, 2-channel temperature logger with connections for highly accurate external sensor (Pt100) incl. wall holder, lock, battery and calibration protocol

Part no. 0572 1762



General technical data

| | |
|-----------------------|------------------------------------------------------------------------|
| Battery type | 1 x Lithium (TL-5903) |
| Battery life | 8 years (15 min. meas. rate, +25 °C) |
| Operating temperature | -35 to +70 °C |
| Storage temperature | -40 to +85 °C |
| Dimensions | 103 x 63 x 33 mm |
| Weight | approx. 410 g (testo 176 T1) approx. 220 g (testo 176 T2) |
| Protection class | IP68 (testo 176 T1) IP65 (testo 176 T2) |
| Measuring rate | 1 s to 24 h (freely selectable, for online measurement 2 s to 24 h) |
| Memory | 2 mio. measurement values |
| Interface | Mini USB, SD card slot |

| | testo 176 T1 | testo 176 T2 |
|---------------------------------|-------------------------|----------------------------------------------------------|
| Sensor type | Pt100 class A | Pt100 class A |
| Channels | 1 x internal | 2 x external |
| Measuring range | -35 to +70 °C | -100 to +400 °C |
| Accuracy Instrument ±1 digit | ±0.4 °C (-35 to +70 °C) | ±0.2 °C (-100 to +200 °C) ±0.3 °C (+200.1 to +400 °C) |
| Resolution | 0.01 °C | 0.01 °C |



Lateral connection of Mini USB cable and SD card



Probe connection at lower end of housing for two Pt100 probes (testo 176 T2 only)

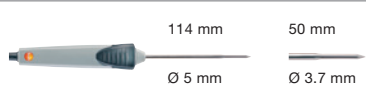
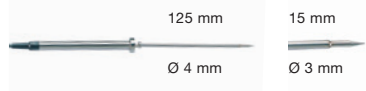





Large, clear display for showing measurement values (testo 176 T2 only)

Accessories

| Accessories for measuring instrument | Part no. |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| Mobile printer for data loggers testo 175/176/184 | 0572 0576 |
| Wall holder (black) for testo 176 | 0554 1703 |
| 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 176 -1 x TL-5903 AA cell | 0515 1760 |
| 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. |
|--------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------|-------------------------------------------------------------------|------------------------------------------|-----------|
| Pt100 probes | | | | | |
| Robust, waterproof Pt100 immersion/penetration probe, Fixed cable |  | -50 to +400 °C | Class A (-50 to +300 °C), Class B (remaining range) ¹⁾ | 12 s | 0609 1273 |
| Robust, Pt100 stainless steel food probe (IP65), Fixed cable |  | -50 to +400 °C | Class A (-50 to +300 °C), Class B (remaining range) ¹⁾ | 10 s | 0609 2272 |
| Penetration probe Pt100 with ribbon cable, cable length 2 m, IP 54, Fixed cable |  | -85 to +150 °C | Class A | 35 s | 0572 7001 |
| Laboratory probe Pt100, glass-coated, exchangeable glass pipe (Duran 50), resistant to corrosive substances, Fixed cable |  | -50 to +400 °C | Class A (-50 to +300 °C), Class B (remaining range) ¹⁾ | 45 s 12 s Without protective glass | 0609 7072 |
| Efficient, robust air probe, Pt100, Fixed cable |  | -50 to +400 °C | Class A (-50 to +300 °C), Class B (remaining range) ¹⁾ | 70 s | 0609 1773 |

1) According to standard 60751, the accuracies of Class A and B refer to -200 to +600 °C (Pt100)

LERDTHAI
SUPPLY

บริษัท เลิศไทยซัพพลาย จำกัด

82/29 หมู่ 8 ตำบลมาบโป่ง อำเภอพานทอง จังหวัดชลบุรี 20160

Tel : 098-3610310 E-mail : info@lerdthaisupply.co.th