

testo 176 T4
Data logger with 4 external temperature probe inputs

The testo 176 T4 professional data logger with up to 4 external temperature probe connections for simultaneous temperature measurement at different sites.

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

- Parallel temperature measurement at up to four measurement sites using different connectable thermocouple probes for different applications
- Easy monitoring and documentation, e. g. of the flow and return temperature of an underfloor heating system at up to four measurement sites simultaneously



| Technical data | | |
|--------------------------|---|--|
| Probe type | TE (Types T, K and J) | Oper. temp. -20 to +70 °C |
| Channels | 4 x external | Storage temp. -40 to +85 °C |
| Measurement units | °C, °F | Dimensions 103 x 63 x 33 mm |
| Measuring range | -200 to +400 °C (Type T) | Battery type 1 x Lithium (TL-5903) |
| | -195 to +1000 °C (Type K) | Protection class IP 65 |
| | -100 to +750 °C (Typ3e J) | Meas. cycle 1 sec - 24 h |
| Accuracy ± 1 digit | ±1% of reading (-200 to -100.1 °C) | Memory 2 mio. measurement values |
| | ±0.3 °C (-100 to +70 °C) ±0.5% of m.v. (+70.1 to +1000 °C) | Software ComSoft Basic 5 ComSoft Professional 4 ComSoft CFR 21 Part 11 |
| Resolution | 0.1 °C | |
| Battery life (at +25 °C) | 8 years at 15 min. meas. rate | |

| Accessories | Part no. |
|---|-----------|
| Software | |
| ComSoft Basic 5 - CD ComSoft Basic 5 (if free, registration-mandatory download not wanted) | 0572 0580 |
| ComSoft Professional 4 - 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 |
| Calibration Certificates | |
| ISO temperature calibration certificate; temperature probe; calibration points: -18 °C, 0 °C, +40 °C; per channel/instrument | 0520 0153 |
| DKD temperature calibration certificate; temperature probe; calibration points: -18 °C, 0 °C, +60 °C; per channel/instrumenta | 0520 0261 |

| Accessories | Part no. |
|--|-----------|
| USB cable - Cable for connecting the data loggers testo 176 with a PC, mini USB to USB | 0449 0047 |
| SD card - for collecting the measurement data from the data loggers testo 176, application range to -20 °C | 0554 1700 |
| Wall holder - (black) with padlock for testo 176 | 0554 1703 |
| Battery for testo 176 - 1 x TLH-5903 AA cell | 0515 1760 |

| Probes (Thermocouple) | Illustration | Meas. range | Accuracy | t99 | Part no. |
|---|--|----------------|--|------|-----------|
| Stationary probe with stainless steel sleeve, TC Type K | 40 mm Ø 6 mm Conn.: Fixed cable 1.9 m | -50 to +205 °C | Class 2* | 20 s | 0628 7533 |
| Pipe wrap probe with Velcro tape for temperature measurements on pipes diameter to max. 120 mm, Tmax. +120 °C, TC Type K | 395 mm 20 mm Conn.: Fixed cable 1.5 m | -50 to +120 °C | Class 1* | 90 s | 0628 0020 |
| Pipe wrap probe for pipe diameters 5 to 65 mm, with exchangeable measuring head, measuring range briefly up to +280 °C, TC type K | 75 mm Ø 21 mm Conn.: Fixed cable 1.2 m | -60 to +130 °C | Class 2* | 5 s | 0602 4592 |
| Magnet probe, adhesion approx. 10 N, with magnets, for higher temperatures, for measurements on metal surfaces, TC type K | 75 mm Ø 21 mm Conn.: Fixed cable 1.6 m | -50 to +400 °C | Class 2* | | 0602 4892 |
| Thermocouple with TC plug flexible, length 1500 mm, fibreglass, TC Type K | 1500 mm Ø 1.5 mm | -50 to +400 °C | Class 2* | 5 s | 0602 0645 |
| Superfast needle probe for monitoring cooking times in ovens, TC Type T | 60 mm Ø 1.4 mm | -50 to +250 °C | ±0.2 °C (-20 ... +70 °C) Class 1 (remaining measuring range)* | 2 s | 0628 0030 |

*Acc. to norm 60584-2, the accuracy of Class 1 refers to -40 to -100 °C (Type K), Class 2 to -40 to +1200 °C (Type K), Class 3 to -200 to +40 °C (Type K)

Logger software

Three software versions are available for programming and reading out the data loggers, as well as for the analysis of the data. Depending on the requirement, Testo offers the right software solution. The ComSoft Basic 5 with new graphic user interface offers all the basic functions of a standard logger software. Independently of where the data loggers are used – the ComSoft Basic 5 facilitates the configuration and readout of the instruments as well as the analysis of the data. User-friendliness and intuitive operation are paramount here. Requirements over and above this, such as the correlation of measurement data which have been recorded at different sites, are optimally fulfilled by the ComSoft Professional 4. The pharmaceutical industry makes very special demands, whose fulfilment is guaranteed by the ComSoft CFR21 Part 11.

CD ComSoft Basic 5, if free, registration-mandatory download not wanted

Order no.:
0572 0580

ComSoft Professional 4 – for demanding users

- The ComSoft Professional 4 offers analysis and presentation possibilities over and above the basic functions
- Many measurement sites and data loggers can be organized in a clear tree structure, for example

Order no.:
0554 1704

ComSoft CFR 21 Part 11 – specially for the requirements of the pharmaceutical industry

- The ComSoft CFR 21 Part 11 is a validation-capable software, and fulfils all the stipulations of the FDA (Food and Drug Administration) in the framework of a closed system
- Conformity with the CFR guidelines is confirmed by an independent institute

Order no.:
0572 6560

The right logger software for every application

ComSoft Basic 5 – for easy operation and convenient analysis

- The ComSoft Basic 5 offers all the basic functions of a logger software
- Free download of the ComSoft Basic 5 with mandatory registration
- Graphic user interface guides the user step by step through the individual processes
- Convenient export functions, e. g. for further processing of the data in Microsoft Excel, or the generation of a PDF which can be made available to other users

ComSoft Professional 4 – for demanding users

- The ComSoft Professional 4 offers analysis and presentation possibilities over and above the basic functions
- Many measurement sites and data loggers can be organized in a clear tree structure, for example

ComSoft CFR 21 Part 11 – specially for the requirements of the pharmaceutical industry

- The ComSoft CFR 21 Part 11 is a validation-capable software, and fulfils all the stipulations of the FDA (Food and Drug Administration) in the framework of a closed system
- Conformity with the CFR guidelines is confirmed by an independent institute

