

Mini data logger Temperature and humidity

testo 174H

Long-term stable humidity sensor

High data security

Large display

Display of current temperature or humidity values

Measurement data store for 16,000 measurement values

Fast data analysis and documentation on a PC



°C



%RH

Illustration 1-1

The mini data logger for temperature and humidity testo 174H is ideal for monitoring temperature- and humidity-sensitive goods in storage. The testo 174H also monitors building climate continuously, securely and unobtrusively. The free software ComSoft Basic allows fast programming of the data logger and easy analysis.

The low-cost temperature and humidity data logger guarantees secure measurement results on the basis of state-of-the-art measurement technology. The integrated sensors ensure long-term stable measurement values. This allows you to adhere to and safely document quality assurance guidelines.

Technical data / Accessories

testo 174H

testo 174H mini data logger, 2-channel, incl. wall bracket, battery (2 x CR 2032 lithium) and calibration protocol



Part no. 0572 6560

Set testo 174H

testo 174H mini data logger set, 2-channel, incl. USB interface for programming and reading out the logger, wall bracket, battery (2 x CR 2032 lithium) and calibration protocol



Part no. 0572 0566

Sensor type

NTC

Meas. range	-20 to +70 °C
Accuracy ±1 digit	±0.5 °C (-20 to +70 °C)
Resolution	0.1 °C

Sensor type

Testo humid. sensor, cap.

Meas. range	0 to 100 %RH*
Accuracy ±1 digit	±3 %RH (2 to 98 %RH) ±0.03 %RH/K
Resolution	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.

General technical data

Channels	2 x internal
Battery type	2 lithium batteries (CR2032)
Battery life	1 year (15 min measuring cycle, +25 °C)
Oper. temp.	-20 to +70 °C
Storage temp.	-40 to +70 °C
Dimensions	60 x 38 x 18,5 mm
Protection class	IP20
Measuring rate	1 min - 24 h
Memory	16.000 readings

Accessories

Part no.

Accessories for measuring instrument

USB interface for programming and readout of the loggers testo 174T and testo 174H	0572 0500	
Lithium battery CR 2032 button cell (please order 2 batteries per logger)	0515 0028	
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	
ISO calibration certificate humidity calibration points 11.3 %RH and 75.3 %RH at +25 °C/+77 °F; per channel/instrument	0520 0076	

Mini data logger Temperature

testo 174T

Display of current temperature value

High data security

Large display

Fast data analysis and documentation on a PC

Waterproof according to IP65

Measurement data memory for 16,000 measurement values



Illustration 1:1

The mini data logger for temperature, testo 174T, is ideal for accompanying transports. Simply positioned close to the goods, e. g. in containers and refrigerated rooms, the data logger monitors temperature continuously, securely and unobtrusively. The free software ComSoft Basic allows fast programming of the data logger and easy analysis.

The integrated NTC probe stands for high accuracy. Its large measuring range and compact design make the testo 174T the competent assistant for almost any temperature recording job.

Technical data / Accessories



testo 174T

testo 174T mini data logger, 1-channel, incl. wall bracket, battery (2 x CR 2032 lithium) and calibration protocol



Part no. 0572 1560

Sensor type

NTC

Meas. range	-30 to +70 °C
Accuracy ±1 digit	±0,5 °C (-30 to +70 °C)
Resolution	0,1 °C

General technical data

Channels	1 x internal
Battery type	2 lithium batteries (CR2032)
Battery life	500 days (15 min measuring cycle, +25 °C)
Oper. temp.	-30 to +70 °C
Storage temp.	-40 to +70 °C
Dimensions	60 x 38 x 18,5 mm
Protection class	IP65
Measuring rate	1 min - 24 h
Memory	16.000 readings

Set testo 174T

testo 174T mini data logger set, 1-channel, incl. USB interface for programming and reading out the logger, wall bracket, battery (2 x CR 2032 lithium) and calibration protocol



Part no. 0572 0561

Accessories

Part no.

Accessories for measuring instrument

USB interface for programming and readout of the loggers testo 174T and testo 174H	0572 0500	
Lithium battery CR 2032 button cell (please order 2 batteries per logger)	0515 0028	
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	

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 AIMn 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	

We measure it.



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)

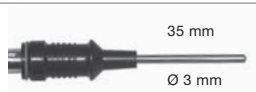
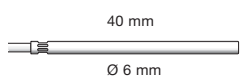
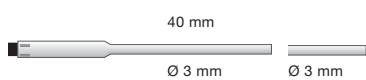
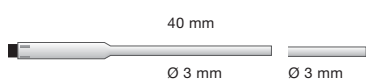
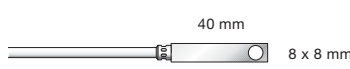




Large, clear display for showing measurement values

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	-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

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)



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 apartments 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
Oper. temp.	-20 to +55 °C
Storage temp.	-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)
Meas. 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






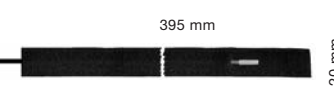
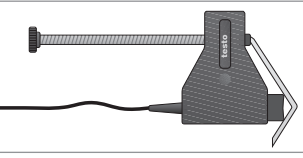


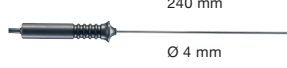
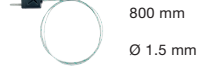

Accessories

Part no.

Accessories for measuring instrument


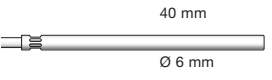

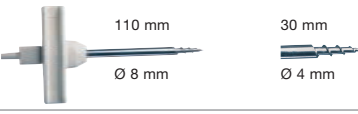
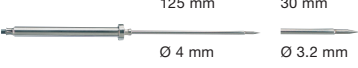
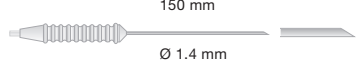
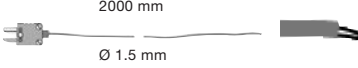
Wall holder (black) with lock for testo 175	0554 1702	
Cable for connecting the data loggers testo 175 and testo 176 to the PC, Mini-USB to USB	0449 0047	
SD card - for collecting the measurement data from the data loggers testo 175 and testo 176; 2 GB; application range to -20 °C	0554 8803	
Battery 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	

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, 800mm 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, 1500mm long, fibre glass, 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, 1500mm long, PTFE, TC Type K		-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		-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		-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		-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 PTFE cable to +250 °C, TC Type T, Fixed cable		-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		-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		-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).

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
Meas. 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.
Meas. 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 at 15 min. meas. rate
Oper. temp.	-20 to +70 °C
Storage temp.	-40 to +85 °C
Dimensions	103 x 63 x 33 mm
Protection class	IP65
Measuring rate	1 s - 24 h
Memory	2 mio. measurement values



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.
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 12mm		-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
Thin humidity probe with built-in electronics, incl. 4 attachable PTFE protection caps for material moisture equilibrium measurement	 60 mm Ø 4 mm	0 to +40 °C 0 to +100 %RH	±0,2 °C ±2 %RH (+2 to +98 %RH)	0636 2135
Humidity/temperature probe	 Ø 12 mm	-20 to +70 °C 0 to +100 %RH	±0,3 °C ±2 %RH (+2 to +98 %RH)	0636 9735

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

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 at 15 min. meas. rate
Oper. temp.	-20 to +70 °C
Storage temp.	-40 to +85 °C
Dimensions	103 x 63 x 33 mm
Protection class	IP54
Measuring rate	1 s - 24 h
Memory	2 mio. measurement values

Sensor types

	NTC	Testo humid. sensor, cap.	Absolute pressure sensor
Meas. 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.
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 differential pressure, accuracy 0.1 to 0.6 (% of fsv)	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 12mm		-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
Thin humidity probe with built-in electronics, incl. 4 attachable PTFE protection caps for material moisture equilibrium measurement	 60 mm Ø 4 mm	0 to +40 °C 0 to +100 %RH	±0,2 °C ±2 %RH (+2 to +98 %RH)	0636 2135
Humidity/temperature probe	 Ø 12 mm	-20 to +70 °C 0 to +100 %RH	±0,3 °C ±2 %RH (+2 to +98 %RH)	0636 9735



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

General technical data

Battery type	1 x Lithium (TL-5903)
Battery life	8 years (15 min. meas. rate, +25 °C)
Oper. temp.	-35 to +70 °C
Storage temp.	-40 to +85 °C
Dimensions	103 x 63 x 33 mm
Protection class	IP68 (testo 176 T1) IP65 (testo 176 T2)
Measuring rate	1 s - 24 h
Memory	2 mio. measurement values

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

	testo 176 T1	testo 176 T2
Sensor type	Pt100	Pt100
Channels	1 x internal	2 x external
Meas. range	-35 to +70 °C	-100 to +400 °C
Accuracy ±1 digit	±0.2 °C (-35 to +70 °C)	±0.2 °C (-50 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)

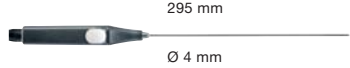
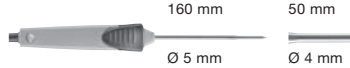
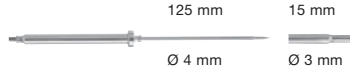

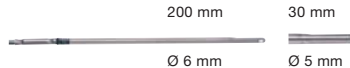
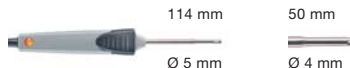


Large, clear display for showing measurement values (testo 176 T2 only)

Accessories

Accessories for measuring instrument	Part no.
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					
Highly accurate Pt100 immersion/penetration probe incl. calibration protocol (test points 0 °C and +157 °C), Fixed cable	 295 mm Ø 4 mm	-80 to +300 °C	±0.05 °C (0 to +100 °C) ±(0.05 °C +0.05% of mv) (remaining range)	60 s	0614 0235
Waterproof Pt100 immersion/penetration probe, calibratable, Fixed cable 1.2 m	 160 mm 50 mm Ø 5 mm Ø 4 mm	-50 to +300 °C	Class A ¹⁾	12 s	0614 1272
Robust stainless steel Pt100 food probe IP65, calibratable, Fixed cable 1.2 m	 125 mm 15 mm Ø 4 mm Ø 3 mm	-50 to +300 °C	Class A ¹⁾	10 s	0614 2272
Penetration probe Pt100 with ribbon cable, cable length 2 m, IP 54, Fixed cable	 60 mm 30 mm Ø 5 mm Ø 3.6 mm	-50 to +180 °C	Class A	10 s	0572 7001
Laboratory probe Pt100, glass-coated, exchangeable glass pipe (Duran 50), resistant to corrosive substances, Fixed cable	 200 mm 30 mm Ø 6 mm Ø 5 mm	-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	 114 mm 50 mm Ø 5 mm Ø 4 mm	-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)

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 at 15 min. meas. rate
Oper. temp.	-20 to +70 °C
Storage temp.	-40 to +85 °C
Dimensions	103 x 63 x 33 mm
Protection class	IP65
Measuring rate	1 s - 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





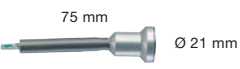
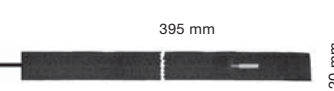
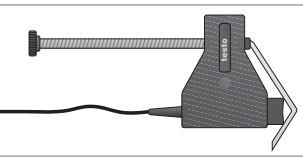


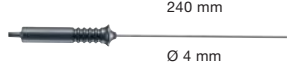


	Type T (Cu-CuNi)	Type K (NiCr-Ni)	Type J (Fe-CuNi)
Meas. range	-200 to +400 °C	-195 to +1000 °C	-100 to +750 °C
Accuracy ±1 digit	±1 % of mv (-200 to -100,1 °C) ±0.3 °C (-100 to +70 °C) ±0.5 % of mv (+70,1 to +1000 °C)	±1 % of mv (-200 to -100,1 °C) ±0.3 °C (-100 to +70 °C) ±0.5 % of mv (+70,1 to +1000 °C)	±1 % of mv (-200 to -100,1 °C) ±0.3 °C (-100 to +70 °C) ±0.5 % of mv (+70,1 to +1000 °C)
Resolution	0.1 °C	0.1 °C	0.1 °C

Accessories

Part no.



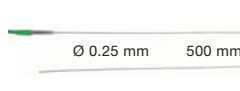
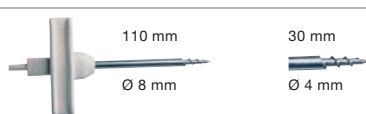
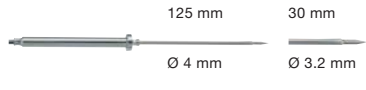


Wall holder (black) for testo 176	0554 1703
Cable for connecting the data loggers testo 175 and testo 176 to the PC, Mini-USB to USB	0449 0047
SD card - for collecting the measurement data from the data loggers testo 175 and testo 176; 2 GB; application range to -20 °C	0554 8803
Battery for testo 176 -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.
Probes Type K					
Immersion tip, flexible, TC Type K		-200 to +1000 °C	Class 1 ¹⁾	5 s	0602 5792
Immersion tip, flexible, TC Type K		-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		-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		-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		-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		-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		-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		-50 to +230 °C	Class 1 ¹⁾	15 s	0628 1292
Thermocouple with TC adapter, flexible, 800mm long, fibre glass, TC Type K		-50 to +400 °C	Class 2 ¹⁾	5 s	0602 0644
Thermocouple with TC adapter, flexible, 1500mm long, fibre glass, TC Type K		-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, 1500mm 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 PTFE cable to +250 °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).

USB data logger for temperature, humidity and shock

testo 184 G1

Clear alarm indication

Easiest operation

Easiest configuration without software installation

Convenient readout thanks to automatic PDF report

Mobile readout by NFC possible

Reliable recording of vibrations (shock)



Illustration 1:1



The data logger testo 184 G1 is designed specifically for the monitoring of shock, relative humidity and temperature during transportation. In addition to the precise temperature and humidity measurement, a 3-axle acceleration sensor measures any vibrations which occur.

This allows **impact and vibrations** to be reliably recorded during the transport of sensitive pharmaceutical products, high-quality electronic products, delicate machinery or valuable art objects.

At their destination, you see at a glance whether the configured limit values have been adhered to. In order to obtain detailed information, it is sufficient to connect the logger to a PC – a PDF report is immediately generated with all relevant data.

In order for you to be able to work even more efficiently and conveniently with the data loggers, all required files and information are stored directly and securely in the testo 184 G1: Configuration file, instruction manual and PDF report of your recorded data.

Technical data

testo 184 G1

USB data logger testo 184 G1 for temperature, humidity and shock, unlimited operating duration thanks to exchangeable battery, incl. wall bracket

Part no. 0572 1846



Sensor

Measurement parameters	Temperature / humidity / shock
Measuring range	-20 to +70 °C 0 to 100 %RH 0 to 10 g
Accuracy	±0.5 °C (0 to +70 °C) ±0.8 °C (-20 to 0 °C) ±1.8 %RH + 3 % of m.v. at +25 °C (5 to 80 %RH) ±0.03 %RH / K (0 to 60 °C) ±0.1 g + 5 % of m.v.
Resolution	0.1 °C 0.1 %RH 0.1 g

General technical data

Power supply	Lithium battery CR2450 3V, exchangeable
Operating time	Unlimited
Battery life	120 days (at +25 °C and 15 mins measurement rate).
Measuring rate	1 min to 24 h
Memory	64000 measurement values (temperature and humidity) 1000 measurement values (shock)
Alarm identification	by LEDs and display
Dimensions	44 x 12 x 97 mm
Weight	45 g
Protection class	IP30
Operating temperature	-20 to +70 °C
Storage temperature	-55 to +70 °C
Tests, certificates	· Certified by HACCP International · testo ComSoft CFR software (V4.3 SP2 or higher) compatible with CFR 21 Part 11
Warranty	12 months

Accessories

	Part no.	
Lithium battery CR2450 3 V	0515 1841	
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, 50 %RH and 75.3 %RH at +25 °C	0520 0176	
ISO calibration certificate humidity, calibration points 11.3 %RH and 75.3 %RH at +25 °C/+77 °F; per channel/instrument	0520 0076	

USB data logger for humidity and temperature

testo 184 H1

Clear alarm indication

Easiest operation

Easiest configuration without software installation

Convenient readout thanks to automatic PDF report

Mobile readout by NFC possible

IT safe (no installation, no download)



Illustration 1:1

With the testo 184 data loggers, you can monitor every step of the transport chain. testo 184 H1 is specially tailored to the monitoring of relative humidity and temperature during transport, for example in order to continuously monitor fruit and vegetables, humidity-sensitive medicaments or cut flowers.

At their destination, you see at a glance whether the configured limit values have been adhered to. In order to obtain detailed information, it is sufficient to connect the logger to a PC – a PDF report is immediately generated with all relevant data.

In order for you to be able to work even more efficiently and conveniently with the data loggers, all required files and information are stored directly and securely in the testo 184 H1: Configuration file, instruction manual and PDF report of your recorded data.

Technical data

testo 184 H1

USB data logger testo 184 H1 for temperature and humidity, unlimited operating duration thanks to exchangeable battery

Available in packages of 1, 10 and 50 off.

Part no. 0572 1845



Sensor

Measurement parameters	Temperature / humidity
Measuring range	-20 to +70 °C 0 to 100 %RH
Accuracy	±0.5 °C (0 to +70 °C) ±0.8 °C (-20 to 0 °C) ±1.8 %RH + 3 % of m.v. at +25 °C (5 to 80 %RH) ±0.03 %RH / K (0 to 60 °C)
Resolution	0.1 °C 0.1 %RH

General technical data

Power supply	Lithium battery CR2450 3V, exchangeable
Operating time	Unlimited
Battery life	500 days (at +25 °C and 15 mins measurement rate).
Measuring rate	1 min to 24 h
Memory	64000 measurement values
Alarm identification	by LEDs and display
Dimensions	44 x 12 x 97 mm
Weight	45 g
Protection class	IP30
Operating temperature	-20 to +70 °C
Storage temperature	-55 to +70 °C
Tests, certificates	· Certified by HACCP International · testo ComSoft CFR software (V4.3 SP2 or higher) compatible with CFR 21 Part 11
Warranty	12 months

Accessories

Part no.

Wall bracket for testo 184	0554 1841	
Lithium battery CR2450 3 V	0515 1841	
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, 50 %RH and 75.3 %RH at +25 °C	0520 0176	
ISO calibration certificate humidity, calibration points 11.3 %RH and 75.3 %RH at +25 °C/+77 °F; per channel/instrument	0520 0076	

USB data logger for temperatures up to $-80\text{ }^{\circ}\text{C}$

testo 184 T4

Clear alarm indication

Easiest operation

Easiest configuration without software installation

Convenient readout thanks to automatic PDF report

Mobile readout by NFC possible

Specially for transports up to $-80\text{ }^{\circ}\text{C}$



Illustration 1:1

The data logger testo 184 T4 is designed for lowest temperatures down to $-80\text{ }^{\circ}\text{C}$, such as occur in dry-ice cooled transports (e.g. blood plasma). Special components qualified for this temperature range are used, allowing continuous monitoring up to 100 days at operating temperatures of $-80\text{ }^{\circ}\text{C}$.

At their destination, you see at a glance whether the configured limit values have been adhered to. In order to obtain detailed information, it is sufficient to connect the logger to a PC – a PDF report is immediately generated with all relevant data.

In order for you to be able to work even more efficiently and conveniently with the data loggers, all required files and information are stored directly and securely in the testo 184 T4: Configuration file, calibration certificate, instruction manual and PDF report of your recorded data.

Technical data



testo 184 T4

USB data logger testo 184 T4 for temperature, unlimited operating duration thanks to exchangeable battery

Available in packages of 1 and 10 off

Part no. 0572 1844



Sensor

Measurement parameter	Temperature
Temperature sensor	Pt1000
Measuring range	-80 to +70 °C
Accuracy	±0.8 °C (-80 to -35.1 °C) ±0.5 °C (-35 to +70 °C)
Resolution	0.1 °C

General technical data

Power supply	Lithium battery ER2450T, 3V, exchangeable
Operating time	Unlimited
Battery life	100 days (at -80 °C and 15 mins measurement rate).
Measuring rate	1 min to 24 h
Memory	40,000 readings
Alarm identification	by LEDs
Dimensions	44 x 12 x 97 mm
Weight	45 g
Protection class	IP67
Operating temperature	-80 to +70 °C
Storage temperature	-80 to +70 °C
Scope of delivery	Data logger, temperature calibration certificate (stored as a PDF in the instrument), battery ER2450T
Tests, certificates	· EN 12830-certified (C,D) · Certified by HACCP International · testo ComSoft CFR software (V4.3 SP2 or higher) compatible with CFR 21 Part 11
Warranty	12-months

Accessories

	Part no.	
Wall bracket for testo 184	0554 1841	
Lithium battery ER2450T	0515 1840	
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 cert./temperature, temperature data logger; calibration points selectable from -196 to +1260°C	0520 0141	
ISO calibration certificate/temperature, temperature probe; calibration points -18°C; 0°C; +60°C per channel/instrument	0520 0151	