



# Professional data logger for humidity and temp. with ext. probe socket

- External probes
- Display/Prints
- Battery: 5 years
- ABS casing
- ±2 % of reading
- 48,000 readings



Sensitive products require the right ambient conditions during production and storage. Efficient measurement and documentation of the readings over months/years is possible with the testo 177-H1 professional data logger.

Additional surface, immersion and air probes can be attached to the data logger e.g. for uninterrupted measurement of the dew point distance.



Efficient measurement of production and storage ambient conditions, to assure stable quality

- Long-term stable humidity sensor with fast response time
- Control and adjustment option with adjustment set
- Protective caps for dirt-ingressed air or corrosive gases
- Convenient documentation with infrared printer or PC/notebook

### testo 177-H1

**Intern. %RH, °C, °C td + extern. °C**

testo 177-H1, humidity/temperature logger, 4 channels, with internal sensors and additional external temperature probe socket, wall holder and calibration protocol

Part no. 0563 1775



Collect data on-site with the testo 580 data collector, download and analyse on PC/Notebook.

### Suitable probes at a glance

Description	Illustration	Meas. range	Accuracy	t <sub>99</sub>	Conn. Cable/Length	Part no.
Stub probe, IP 54		-20... +70 °C	±0.2 °C (-20... +40 °C)	15 s		0628 7510
Mounting probe with aluminium sleeve, IP 65		-30... +90 °C	±0.2 °C (0... +70 °C) ±0.5 °C (-20... +0.1 °C) ±0.5 °C (+70.1... +90 °C)	60 s	Fixed cable 2.4 m	0628 7503 *
Accurate imm./pen. probe, 6m cable, IP 67		-35... +80 °C	±0.2 °C (-25... +74.9 °C) ±0.4 °C (-35... +25.1 °C) ±0.4 °C (+75... +80 °C)	5 s	Fixed cable 6 m	0610 1725 *
Screw-in probes for measurements at hard-to-access points, M6 thread, IP 54		-50... +80 °C	±0.5% of mv (+100... +150 °C)	70 s	Fixed cable 2 m	0628 7514 *
Probe for surface measurement		-50... +80 °C	±0.2 °C (0... +70 °C)	150 s	Fixed cable 2 m	0628 7516 *
Wall surface temperature probe, e.g. to prove damage in building material		-50... +80 °C	±0.2 °C (0... +70 °C)	20 s	Fixed cable 3 m	0628 7507
Pipe probe with Velcro, for pipe diameter of max. 75 mm		-50... +70 °C	±0.2 °C (-25... +70 °C) ±0.4 °C (-50... +25.1 °C)		Fixed cable 1.5 m	0613 4611
Food probe (IP65) stainless steel, PUR cable can be used at up to +80°C, IP54 plug-in connection		-50... +150 °C	±0.5% of mv (+100... +150 °C) ±0.2 °C (-25... +74.9 °C) ±0.4 °C (-50... +25.1 °C) ±0.4 °C (+75... +99.9 °C)	8 s	Fixed cable 1.5 m	0613 2211 *
Robust food penetration probe with special handle, IP 65, reinforced cable (PUR) and reinforced protection against buckling		-50... +150 °C	±0.5% of mv (+100... +150 °C) ±0.2 °C (-25... +74.9 °C) ±0.4 °C (-50... +25.1 °C) ±0.4 °C (+75... +99.9 °C)	7 s	Fixed cable 1.4 m	0613 2411 *
Frozen food probe, corkscrew design		-50... +140 °C	±0.5% of mv (+100... +140 °C) ±0.2 °C (-25... +74.9 °C) ±0.4 °C (-50... +25.1 °C) ±0.4 °C (+75... +99.9 °C)	20 s	Plug-in cable 1.5 m	0613 3211 *
Robust, affordable air probe to check storage temperatures		-50... +150 °C	±0.5% of mv (+100... +150 °C) ±0.2 °C (-25... +74.9 °C) ±0.4 °C (-50... +25.1 °C) ±0.4 °C (+75... +99.9 °C)	60 s	Fixed cable 1.2 m	0613 1711 *

⚠ The specified seal class of the data loggers is achieved with these probes.

\* Probe tested to EN 12830 for suitability in the transport and storage sectors

## Practical accessories and recommended sets



Wall holder, for quick attachment of logger to wall

**Included**

Lock for wall holder

Part no. 0554 1755



testo 575 fast printer, incl. 1 roll of thermal paper and batteries

Part no. 0554 1775

### testo 177-H1, Standard Set for logging ambient air conditions



testo 177-H1, humidity/temperature logger, 4 channels, wall holder and calibration protocol

Lock for wall holder

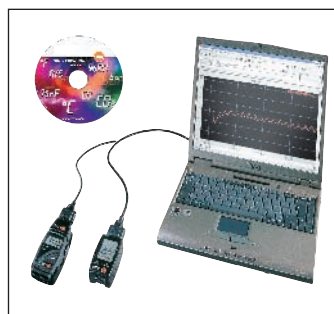
testo 575 fast printer

ComSoft 3 - Basic Set for testo 177, Basic software incl. interface, desk-top holder, PC connection cable



testo 580 data collector including readout holders

Part no. 0554 1778



ComSoft 3 - Basic Set for testo 177, Basic software

Part no. 0554 1774

### testo 177-H1, Professional Set for dew point difference measurement



testo 177-H1, humidity/temperature logger, 4 channels, wall holder and calibration protocol

Lock for wall holder

Wall surface temperature probe

testo 575 fast printer

ComSoft 3 - Professional with data management

Interface incl. desk-top holder, PC connection cable

### Ordering data for Accessories

**Part no.**

testo 575 fast printer, incl. 1 roll of thermal paper and batteries	0554 1775
Infrared thermal line printer with graph function	
Spare thermal paper for printer (6 rolls)	0554 0569
Spare thermal paper for printer (6 rolls)	0554 0568
Measurement data documentation legible for up to 10 years	
Label thermal paper (Testo patent) for testo 575 printer (6 rolls), can be applied directly	0554 0561
testo 580 data collector including readout holders for testo 175/177 data loggers	0554 1778
ComSoft 3 - Basic Set for testo 177, Basic software	0554 1774
With diagram and table function, interface incl. desk-top holder, PC connection cable	
ComSoft 3 - Professional with data management	0554 0830
Incl. database, analysis and graphics function, data analysis, trend curve (without interface)	
<b>NEW</b> ComSoft 3 - For requirements in accordance with CFR 21 Part 11	0554 0821
Incl. database, analysis and graphics function, data analysis, trend curve	
Interface for testo 175/177 incl. desk-top holders, PC connection cable (please also order for ComSoft 3 - Professional)	0554 1757
Lock for wall holder for testo 175/177 data loggers	0554 1755
Battery, 3.6 V/1.9 Ah 1AA	0515 0177
Transport case for up to 5 testo 177 data loggers, testo 575 printer, testo 580 data collector and accessories	0516 1770
Metal protection cage, Ø 12 mm for humidity probes	0554 0755
For velocities of less than 10 m/s	
Cap with wire mesh filter, Ø 12 mm	0554 0757
Teflon sintered filter, Ø 12 mm, for corrosive substances	0554 0756
High humidity range (long-term measurements), high velocities	
Stainless steel sintered cap, Ø 12 mm, is screwed onto humidity probe	0554 0647
For measurements at high velocity speeds or in dirt ingressed air	
Control and humidity adjustment set 11.3%RH/75.3%RH incl. adapter for humidity probes	0554 0660
<b>ISO calibration certificate/Humidity</b>	0520 0076
Humidity data logger; calibration points 11.3%RH and 75.3%RH at +25°C; per channel/instrument	
<b>DKD calibration certificate/Humidity</b>	0520 0246
Humidity data logger; cal. points 11.3%RH and 75.3%RH at +25°C; per channel/instrument	
<b>ISO calibration certificate/Temperature</b>	0520 0151
Temperature data logger; calibration points -18°C; 0°C; +60°C per chan./instr.	

### Technical data

**Chann. intern 3**

Meas. range	0... +100 %RH -20... +70 °C -40... +70 °C td
Accuracy ± 1 digit	±2 %RH (0... +100 %RH) ±0.5 °C (-20... +70 °C)
Resolution	0.1 %RH (0... +100 %RH) 0.1 °C (-20... +70 °C) 0.1% of mv (-40... +70 °C td)

**Chann. external (var.) 1**

Meas. range	-40... +120 °C
Accuracy ± 1 digit	±0.2 °C (-25... +70 °C) ±0.4 °C (-40... -25.1 °C) ±0.4 °C (+70.1... +120 °C)
Resolution	0.1 °C (-40... +120 °C)

Memory	48000
Oper. temp.	-20... +70 °C
Storage temp.	-40... +85 °C
Battery type	Lithium battery
Weight	130 g
Dimensions	103x64x33 mm
Warranty	2 years

Battery life: 5 years with a measuring cycle of 15 min (-10 to +50°C)

Measuring cycle: 2 s to 24 h

Software: Microsoft Windows 95b / 98 / ME / NT4-Sp4 / 2000 / XP

%RH

°C

°C td