

## testo 177-H1

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

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

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

Part no.  
**0563 1775**

## Humidity/temperature logger, 4 channels, with int. sensors, ext. temperature probe socket and display

- ◆ Long-term stable humidity sensor with fast response time
- ◆ Control and adjustment option with adjustment set
- ◆ Protective caps for dirty air or corrosive gases
- ◆ Convenient documentation with infrared printer or PC/notebook
- ◆ Memory for up to 48,000 readings
- ◆ Remote connection via GSM possible



Probes (NTC)	Illustration	Meas. range	Accuracy	t <sub>99</sub>	Part no.
◆ 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	40 mm Ø 6 mm Conn.: Fixed cable; Cable/length: 2.4 m	-30 to +90 °C	±0.2 °C (0 to +70 °C) ±0.5 °C (remaining range)	190 s	0628 7503*
◆ Refrigeration storeroom probe with aluminium sleeve, IP 54, with silicone insulated ribbon cable	40 mm Ø 3 mm	-40 to +90 °C (Short-term to +105 °C)	±0.2 °C (0 to +70 °C) ±0.4 °C (-35 to 0 °C) ±0.5 °C (remaining range)	190 s	0628 0042*
◆ Accurate imm./pen. probe, 6m cable, IP 67	40 mm Ø 3 mm Conn.: Fixed cable; Cable/length: 6 m	-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	40 mm Ø 3 mm Conn.: Fixed cable; Cable/length: 1.5 m	-35 to +80 °C	±0.2 °C (-25 to +74.9 °C) ±0.4 °C (remaining range)	5 s	0628 0006*
◆ Screw-in probes for measurements at hard-to-access points, M6 thread, IP 54	40 mm Ø 3 mm Conn.: Fixed cable; Cable/length: 2 m	-50 to +80 °C	±0.5% of mv	70 s	0628 7514*
Probe for surface measurement	40 mm 8 x 8 mm Conn.: Fixed cable; Cable/length: 2 m	-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	300 mm Ø 3 mm Conn.: Fixed cable; Cable/length: 3 m	-50 to +80 °C	±0.2 °C (0 to +70 °C)	20 s	0628 7507
Pipe wrap probe with Velcro for pipe diameter to max. 75 mm, Tmax. +75 °C, NTC	300 mm Ø 3 mm Conn.: Fixed cable; Cable/length: 1.5 m	-50 to +70 °C	±0.2 °C (-25 to +70 °C) ±0.4 °C (-50 to -25.1 °C)		0613 4611
◆ Stainless steel NTC food probe (IP65) with PUR cable	125 mm Ø 4 mm Conn.: Fixed cable; Cable/length: 1.5 m	-50 to +150 °C <sup>2)</sup>	±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*
◆ Robust NTC food penetration probe with special handle, reinforced PUR cable	115 mm Ø 5 mm Conn.: Fixed cable; Cable/length: 1.4 m	-25 to +150 °C <sup>2)</sup>	±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, for screwing in without pre-drilling (incl. plug-in wire)	110 mm Ø 8 mm Conn.: Plug-in cable 1.5 m	-50 to +140 °C <sup>2)</sup>	±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*
◆ Efficient, robust NTC air probe	115 mm Ø 5 mm Conn.: Fixed cable 1.2 m	-50 to +125 °C	±0.2 °C (-25 to +80 °C) ±0.4 °C (remaining range)	60 s	0613 1712

◆ 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  
2) Long-term measurement range +125 °C, short-term +150 °C or +140 °C (2 minutes)

**testo 177-H1**
**Accessories / Technical data**

Accessories	Part no.
<b>Transport and Protection</b>	
Transport case for up to 5 testo 177 data loggers, testo 575 printer, testo 580 data collector and accessories	0516 1770
Lock for wall holder for testo 175/177 data loggers	0554 1755
<b>Additional Accessories and Spare Parts</b>	
Battery, 3.6 V/1.9 Ah 1AA, for testo 175-T1/175-T2 and all testo 177 loggers	0515 0177
testo 580 data collector set with RS232, readout holders included, for testo 175/177 data loggers	0554 1778
testo 580 data collector set with USB, readout holders included, for testo 175/177 data loggers	0554 1764
testo 581 alarm signal output, floating, for testo 175/177, forwards information efficiently when limits are exceeded to e.g. horns, lamps, PLC etc.	0554 1769
<b>Printers and Accessories</b>	
Fast testo 575 printer, incl. 1 roll of thermal paper and batteries, infrared thermal line printer with graphics function	0554 1775
Spare thermal paper for printer (6 rolls)	0554 0569
Spare thermal paper for printer (6 rolls), measurement data documentation legible for up to 10 years	0554 0568
Label thermal paper (Testo patent) for testo 575 printer (6 rolls), can be applied directly	0554 0561
<b>Software and Accessories</b>	
ComSoft 3 Set - Basic with RS 232 interface, basic software with diagram and table function, incl. desk-top holder, PC connection cable	0554 1774
ComSoft 3 - Basic Set with USB interface for testo 177, basic software with diagram and table function, incl. desk-top holders, PC connection cable	0554 1767
ComSoft 3 - Professional with data management, incl. database, analysis and graphics function, data analysis, trend curve (without interface)	0554 0830
ComSoft 3 - For requirements to CFR 21 Part 11, incl. database, analysis and graphics function, data analysis, trend curve (w/o interface)	0554 0821
RS232 interface for testo 175/177 incl. desk-top holders, PC connection cable, (please also order for ComSoft 3 - Professional)	0554 1757
USB interface, for testo 175/177 incl. desk-top holders, PC conn. cable, (Please order with ComSoft 3 - Professional)	0554 1768
Ethernet adapter, RS232 - Ethernet incl. software driver, mains unit, facilitates data communication in network	0554 1711
<b>Accessories: Humidity probes</b>	
Metal protection cage, Ø 12 mm for humidity probes, for measurement in flow velocities of less than 10 m/s	0554 0755
Cap with wire mesh filter, Ø 12 mm	0554 0757
Teflon sintered filter, Ø 12 mm, for corrosive substances, high humidity range (long-term measurements), high velocities	0554 0756
Stainless steel sintered cap, Ø 12 mm, is screwed onto humidity probe, for measurements at high flow velocities or in contaminated air	0554 0647
Control and humidity adjustment set 11.3 %RH/75.3 %RH incl. adapter for humidity probes, quick checks or calibration of humidity probe	0554 0660

Accessories	Part no.
<b>Remote connection via GSM mobile radio, details page 29</b>	
Alarm modem GSM, (without Testo measuring instrument and the necessary RS232 adapter)	0554 0522
Software Testo Alarm-Editor Professional AK20 (CD incl. instruction manual), for measuring instruments of the types testo 175/177/400/650/950/454	0554 0519
Software Testo Alarm-Editor Basic AK4 (CD incl. instruction manual), for measuring instruments of the types testo 175/177/400/650/950	0554 0518*
Stick aerial, for screwing on to GSM-modem, bendable 2 ways	0554 0523
Magnetic foot aerial, with 3 m cable	0554 0524
Mains unit (rail mounting) 90 to 264V AC/24VDC (2.5A)	0554 1749
Mains unit	0554 1142
Serial interface cable (RS232), for initial parameterization of the alarm modem	0449 0051
<b>Calibration Certificates</b>	
ISO calibration certificate/temperature, temp. data logger, calibration points - 18°C; 0°C; +60°C	0520 0151
ISO cal. cert./humidity, humidity data logger, calibration points 11.3%RH and 75.3%RH at +25°C	0520 0076
DKD calibration cert./humidity, humidity data logger, cal. points 11.3%RH and 75.3%RH at +25°C	0520 0246

\*Limited functionality

Technical data				
Probe type	NTC (Internal)	NTC (External)	Testo humid. sensor, cap.	Dewpoint calculated
Meas. range	-20 to +70 °C	-40 to +120 °C	0 to +100 %RH	-40 to +70 °C td
Accuracy ±1 digit	±0.5 °C	±0.2 °C (-25 to +70 °C) ±0.4 °C (remaining range)	±2 %RH	
Resolution	0.1 °C	0.1 °C	0.1 %RH	0.1 °C td
Oper. temp.	-20 to +70 °C		Battery life: 5 years with a measuring rate of 15 min (-10 to +50 °C)	
Storage temp.	-40 to +85 °C			
Battery type	Lithium battery		Measuring cycle: 2 s to 24 h Software: Microsoft Windows 95b / 98 / ME / NT4-Sp4 / 2000 / XP	
Protection class	IP54			
Memory	48000			
Weight	130 g			
Dimensions	103 x 64 x 33 mm			
Warranty	2 years			