testo <u>177-H1</u>

esi

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 datalogger.

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

Humidity/temperature logger, 4 channels, with internal sensors and additional external temperature probe socket, wall holder and calibration protocol

Part no. 0563 1775

Probes (NTC) Illustration Part no. Meas. range Accuracy tag Stub probe, IP 54 35 mr -20 to +70 °C ±0.2 °C (-20 to +40 °C) ±0.4 °C (+40.1 to +70 °C) 15 s 0628 7510 Ø 3 mm Mounting probe with aluminium sleeve, IP 65 ±0.2 °C (0 to +70 °C) ±0.5 °C (remaining range) 40 mm -30 to +90 °C 190 0628 7503* Conn.: Fixed cable; Cable/Length: 2.4 m Befrigeration storeroom probe with aluminium ±0.2 °C (0 to +70 °C) ±0.4 °C (-35 to 0 °C) ±0.5 °C (remaining range) -40 to +90 °C (Short-term to +105 °C) 190 0628 0042* sleeve, IP 54, with silicone insulated ribbon cable Accurate imm./pen. probe, 6m cable, IP 67 40 mm -35 to +80 °C ±0.2 °C (-25 to +74.9 °C) ±0.4 °C (remaining range) 0610 1725* 5 s Ø 3 mm Ø3mn Conn.: Fixed cable; Cable/Length: 6 m Accurate immersion/penetration probe, cable: ±0.2 °C (-25 to +74.9 °C) ±0.4 °C (remaining range) 40 mm -35 to +80 °C 5 s 0628 0006* 1.5 m long, IP 67 Ø3mm Ø3mm Conn.: Fixed cable; Cable/Length: 1.5 Screw-in probes for measurements at hard-to--50 to +80 °C ±0.5% of mv 70 s 0628 7514* access points, M6 thread, IP 54 Conn.: Fixed cable; Cable/Length: 2 m Probe for surface measurement 40 mn -50 to +80 °C ±0.2 °C (0 to +70 °C) 150 0628 7516* E 0 8 x 8 mm Conn.: Fixed cable; Cable/Length: 2 m Wall surface temperature probe, e.g. to prove -50 to +80 °C ±0.2 °C (0 to +70 °C) 20 s 0628 7507 damage in building material Conn.: Fixed cable; Cable/Length: 3 m 0 Pipe probe with Velcro, for pipe diameter of max. -50 to +70 °C ±0.2 °C (-25 to +70 °C) ±0.4 °C (-50 to -25.1 °C) 0613 4611 80 mm Conn.: Fixed cable; Cable/Length: 1.5 m Food probe (IP65) stainless steel, PUR cable 15 mm ±0.5% of mv (+100 to +150 °C) ±0.2 °C (-25 to +74.9 °C) ±0.4 °C (remaining range) 125 mm -50 to +150 °C2 8 s 0613 2211* 1P can be used at up to +80°C, IP54 plug-in Ø 4 mm Ø3 mm connection Conn.: Fixed cable; Cable/Length: 1.5 m ±0.5% of mv (+100 to +150 °C) ±0.2 °C (-25 to +74.9 °C) ±0.4 °C (remaining range) Robust food penetration probe with special -50 to +150 °C2 7 s 0613 2411* 30 mm 115 mm handle, IP 65, reinforced cable (PUR) and Ø5mm reinforced protection against buckling Ø 3.5 mm Conn.: Fixed cable: Cable/Lenoth: 1.4 m ±0.5% of mv (+100 to +140 °C) ±0.2 °C (-25 to +74.9 °C) ±0.4 °C (remaining range) Frozen food probe, corkscrew design -50 to +140 °C2 20 s 0613 3211* 110 mn P\$\$\$ Ø8mm Ø4mm Conn.: Plug-in cable Robust, affordable air probe to check storage 110 mm ±0.5% of mv (+100 to +150 °C) ±0.2 °C (-25 to +74.9 °C) ±0.4 °C (remaining range) -50 to +150 °C2 60 s 0613 1711* \bigcirc temperatures Ø 4 mm Conn.: Fixed cable; Cable/Length: 1.2 m

The specified seal class of the dataloggers 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)

Internal humidity/temperature sensor, 1 external temperature probe socket

- 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
- Memory for up to 48,000 readings





ZIFRI

testo 177-H1

Accessories / Technical data

Accessories		Part no.
Transport and Protection		
Transport case for up to 5 testo 177 dataloggers, testo 57 data collector and accessories	5 printer, testo 580	0516 1770
Lock for wall holder for testo 175/177 dataloggers		0554 1755
Additional accessories and spare parts		
Battery, 3.6 V/1.9 Ah 1AA, for testo 175-T1/175-T2 and a	II testo 177 loggers	0515 0177
testo 580 data collector including readout holders, For tes dataloggers	sto 175/177	0554 1778
testo 581 alarm signal output, floating, for testo 175/177, information efficiently when limits are exceeded to e.g. ho	0554 1769	
Printer and accessories		
Fast testo 575 printer, incl. 1 roll of thermal paper and bat thermal line printer with graphics function	teries, Infrared	0554 1775
Spare thermal paper for printer (6 rolls)		0554 0569
Spare thermal paper for printer (6 rolls), Measurement da legible for up to 10 years	ta documentation	0554 0568
Label thermal paper (Testo patent) for testo 575 printer (6 applied directly	rolls), can be	0554 0561
Software and accessories		
ComSoft 3 Set - Basic with RS 232 interface, Basic softwa table function, incl. desk-top holder, PC connection cable		0554 1774
ComSoft 3 - Basic Set with USB interface for testo 177, B diagram and table function, incl. desk-top holders, PC co		0554 1767
ComSoft 3 - Professional with data management, Incl. data graphics function, data analysis, trend curve (without inte		0554 0830
ComSoft 3 - For requirements to CFR 21 Part 11, Incl. da graphics function, data analysis, trend curve (without inte	tabase, analysis and rface)	0554 0821
RS 232 interface for testo 175/177 incl. desk-top holders, cable, (please also order for ComSoft 3 - Professional)	PC connection	0554 1757
USB interface, for testo 175/177 incl. desk-top holders, P (Please order with ComSoft 3 - Professional)	C conn. cable,	0554 1768
Ethernet adapter, RS 232 - Ethernet incl. software driver, n Facilitates data communication in network	nains unit,	0554 1711
Accessories: Humidity probes		
Metal protection cage, Ø 12 mm for humidity probes, For than 10 m/s $$	velocities of less	0554 0755
Cap with wire mesh filter, Ø 12 mm		0554 0757
Teflon sintered filter, Ø 12 mm, for corrosive substances, (long-term measurements), high velocities	High humidity range	0554 0756
Stainless steel sintered cap, Ø 12 mm, is screwed onto hu For measurements at high velocity speeds or in dirt ingre		0554 0647
Control and humidity adjustment set 11.3%RH/75.3%RH humidity probes, Quick checks or calibration of humidity		0554 0660

Accessories	Part no.
Calibration certificates	
50 calibration certificate/Temperature, Temp. datalogger; calibration points - $8^\circ C; 0^\circ C; +60^\circ C$	0520 0151
SO cal. cert./Humidity, Humidity datalogger; calibration points 11.3%RH and 5.3%RH at +25°C	0520 0076
KD calibration cert./Humidity, Humidity datalogger; cal. points 11.3%RH nd 75.3%RH at +25°C	0520 0246
Recommended set	
testo 177-H1, Standard Set for logging ambient air conditi	ons
 Humidity/temperature logger, 4 channels, with internal sensors and additic probe socket, wall holder and calibration protocol (Part no. 0563 1775) Lock for wall holder for testo 175/177 dataloggers (Part no. 0554 1755) 	nal external temperature
 Fast testo 575 printer, incl. 1 roll of thermal paper and batteries (Part no. 0. 	55/ 1775)
 ComSoft 3 - Basic Set for testo 177, Basic software incl. interface, desk-top cable (Part no. 0554 1774) 	,
testo 177-H1, Professional Set for measuring dew point di	fference
testo 177-H1, Professional Set for measuring dew point di - Humidity/temperature logger, 4 channels, with internal sensors and additic probe socket, wall holder and calibration protocol (Part no. 0563 1775)	
- Humidity/temperature logger, 4 channels, with internal sensors and additic	
Humidity/temperature logger, 4 channels, with internal sensors and addition probe socket, wall holder and calibration protocol (Part no. 0563 1775)	nal external temperature
Humidity/temperature logger, 4 channels, with internal sensors and addition probe socket, wall holder and calibration protocol (Part no. 0563 1775) Lock for wall holder for testo 175/177 dataloggers (Part no. 0554 1755)	nal external temperature Part no. 0628 7507)
 Humidity/temperature logger, 4 channels, with internal sensors and addition probe socket, wall holder and calibration protocol (Part no. 0563 1775) Lock for wall holder for testo 175/177 dataloggers (Part no. 0554 1755) Wall surface temperature probe, e.g. to prove damage in building material 	nal external temperature Part no. 0628 7507)

Set for logging ambient conditions and additional temp. measurement

- Humidity/temperature logger, 4 channels, with internal sensors and additional external temperature probe socket, wall holder and calibration protocol (Part no. 0563 1775)
- Lock for wall holder for testo 175/177 dataloggers (Part no. 0554 1755)
- Accurate imm./pen. probe, 6m cable, IP 67 (Part no. 0610 1725)
- testo 580 data collector including readout holders, For testo 175/177 dataloggers (Part no. 0554 1778)
- ComSoft 3 Basic Set for testo 177, Basic software incl. interface, desk-top holder, PC connection cable (Part no. 0554 1774)

Technical data						
Probe type	NTC (Internal)	NTC (Ext	ernal)	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% of mv	
Oper. temp. Storage temp. Battery type Protection class Memory Weight Dimensions Warranty	-20 to +70 °C -40 to +85 °C Lithium battery IP54 48000 130 g 103 x 64 x 33 mm 2 years		min (- Measu Softwa	Battery life: 5 years with a measuring rate of 15 min (-10 to +50°C) Measuring cycle: 2 s to 24 h Software: Microsoft Windows 95b / 98 /ME / NT4-Sp4 / 2000 / XP		