testo

Long-term monitoring of storage conditions — Professional and non-stop

testo 177-H1

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 datalogger.

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

- Long-term stable humidity sensor with fast response time
- Memory for 48,000 readings
- Control and adjustment option with adjustment set
- Protection caps for dirt-ingressed or corrosive gases

testo 177-H1

Intern. %RH, °C, °C td + extern. °C
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, upload to PC and analyse

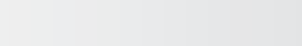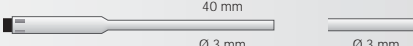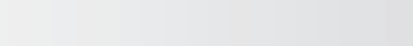Alarm message, reliable notification when limits are exceeded
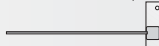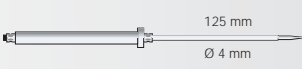
Efficient measurement of ambient storage conditions

Technical data			
Chann. intern	3		
Meas. range	0 to +100 %RH	-20 to +70 °C	-40 to +70 °C td
Accuracy ±1 digit	±2 %RH	±0.5 °C	
Resolution	0.1 %RH	0.1 °C	0.1% of mv
Chann. external (var.)	1		
Meas. range	-40 to +120 °C		
Accuracy ±1 digit	±0.2 °C (-25 to +70 °C)	±0.4 °C (remaining range)	
Resolution	0.1 °C		
Memory	48000		
Measuring rate	2 s to 24 h	Protection class	IP54
Battery life	5 years at meas. rate of 15 min (-10 to +50 °C)		
Analysis software	MS Windows 95b / 98 / ME / NT4-Sp4 / 2000 / XP		
Oper. temp.	-20 to +70 °C	Storage temp.	-40 to +85 °C
Dimensions	103 x 64 x 33 mm	Weight	130 g

Recommended Set: Set for logging storage conditions and additional temperature measurement

Humidity/temperature logger, 4 channels, with internal sensors and additional external temperature probe socket, wall holder and calibration protocol	0563 1775
Lock for wall holder for testo 175/177 dataloggers	0554 1755
Accurate imm./pen. probe, 6m cable, IP 67	0610 1725
testo 580 data collector including readout holders, For testo 175/177 dataloggers	0554 1778
ComSoft 3 Set - Basic with RS 232 interface, Basic software with diagram and table function, incl. desk-top holder, PC connection cable	0554 1774

Description	Illustration	Meas. range	Accuracy	t_{99}	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
Mounting probe with aluminium sleeve, IP 65	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* **Conn.:** Fixed cable
Refrigeration storeroom probe with aluminium sleeve, IP 54, with silicone insulated ribbon cable		-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 Ø 3 mm	-35 to +80 °C	±0.2 °C (-25 to +74.9 °C) ±0.4 °C (remaining range)	5 s	0610 1725* **Conn.:** Fixed cable
Accurate immersion/penetration probe, cable: 1.5 m long, IP 67					0628 0006*
Wall surface temperature probe, e.g. to prove damage in building material		-50 to +80 °C	±0.2 °C (0 to +70 °C)	20 s	0628 7507 **Conn.:** Fixed cable
Food probe (IP65) stainless steel, PUR cable can be used at up to +80°C, IP54 plug-in connection	125 mm / Ø 4 mm 15 mm / Ø 3 mm	-50 to +150 °C Long-term meas. range +125°C, short-term +150°C (2 minutes)	±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* **Conn.:** Fixed cable
Robust, affordable air probe to check storage temperatures	110 mm / Ø 4 mm	-50 to +150 °C Long-term meas. range +125°C, short-term +150°C (2 min)	±0.5% of mv (+100 to +150 °C) ±0.2 °C (-25 to +74.9 °C) ±0.4 °C (remaining range)	60 s	0613 1711* **Conn.:** Fixed cable

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