

## Long-term monitoring of production 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 indication when limits are exceeded



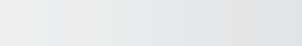
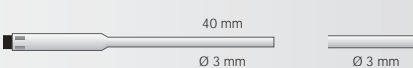
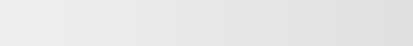

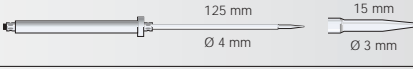
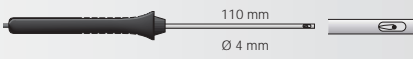
Efficient measurement of production conditions

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 production 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

See page 27 for Accessories Ordering Data

Description	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
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	-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	 Ø 3 mm				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