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Visit us at www.TestEquipmentDepot.com

Data Logger Pressure, Temperature and Humidity

testo 176 P1

High level of data security Internal absolute pressure sensor Two din-type ports for external temp/humidity cable probes Barometric Pressure (mbar, hPa, psi, inH₂O) Parallel temperature/humidity measurement at two measurement points Measurement data memory for 2 million values Up to 8 years of battery life Data transfer via USB cable or SD card





















The absolute pressure, temperature and humidity measurements are recorded e.g in the calibration laboratories, high tech manufacturing environments and at scientific research sites.

The testo 176 P1 assures +/- 3% mbar and 2% temp/humidity probes accuracy and is ideally suited for long term measurements with internal storage for 2 million measurement values.

The testo 176 loggers can be programmed and have data retrieved and analyzed starting with the ComSoft Basic 5 software (free download), as well as more sophisticated ComSoft Pro and ComSoft CFR.

Testo Inc. also offers NIST calibration services for testo 176 P1 and other loggers.



Technical data / Accessories

testo 176 P1

testo 176 P1, 5-channel pressure, temperature and humidity data logger with internal sensor (absolute pressure) and external sensor connections (NTC/capacitive humidity sensor) incl. wall holder, lock, battery and factory calibration document

Part no. 0572 1767



General technical data

Channels	1 x internal, 2 probes external, 4 external channels (temperature, humidity, dew point, absolute humidity)
Battery type	1 x Lithium (TL-5903)
Battery life	8 years at 15 min. meas. rate
Operating temperature	-20 to +70 °C
Storage temperature	-40 to +85 °C
Dimensions	103 x 63 x 33 mm
Protection class	IP54
Measuring rate	1 s - 24 h
Memory	2 million measurement values

Sensor types

	NTC	Testo humid. sensor, cap.	Absolute pressure sensor
Measuring range	-20 to +70 °C	0 to 100 %RH*	600 to 1100 mbar
Accuracy ±1 digit	±0.2 °C (-20 to +70 °C) ±0.4 °C (remaining range)	dependent on probe selected	±3 mbar (0 to +50 °C)
Resolution	0.1 °C	0.1 %RH	1 mbar

^{*} Not for condensing atmospheres. For continuous applications in high humidity (>80 %RH at \leq 30 °C for >12 h, >60 %RH at >30 °C for >12 h), please contact us via our website.







Probe connection at lower end of housing for two temperature/ humidity probes



Large, clear display for showing measurement values

Accessories



Accessories for measuring instrument	Part no.	
Mobile thermal printer for data loggers testo 175/176/184	0572 0576	
Wall holder (black) for testo 176	0554 1703	
Cable for connecting the data loggers testo 175 and testo 176 to the PC, 5 Pin Mini USB (B) to USB (A)	0449 0047	
SD card - for collecting the measurement data from the data loggers testo 175 and testo 176; 2 GB; application range to -20 °C	0554 8803	
Battery for testo 176 -1 x TL-5903 AA cell	0515 1760	
ComSoft Basic 5 software for programming and readout of Testo data loggers; graphic and tabular measurement value presentation as well as export function. Order as a CD, or go to testo.com for free download.	0572 0580	
ComSoft Professional, Pro software incl. data archiving	0554 1704	
ComSoft CFR 21 Part 11, Software for requirements according to CFR 21 Part 11 for Testo data loggers	0554 1705	
NIST calibration certificate temperature temperature probe; calibration points 10 °C, 25 °C, 40 °C or -20 °C, 25 °C, 40 °C per channel/instrument	400520 1901	
NIST calibration certificate humidity calibration points 11.3 %RH and 75.3 %RH at +25 °C/+77 °F; per channel/instrument	400520 2601	
NIST calibration certificate pressure accuracy 0.1 to 0.6 (% of fsv), 5 points distributed over meas. range	Please Call Testo Inc.	

Probes

Probe type	Dimensions Probe shaft/probe shaft tip	Measuring range	Accuracy	Part no.
Humidity/temperature probes				
Humidity/temperature probe 12 mm		-20 to +70 °C 0 to 100 %RH	±0,3 °C ±2 %RH at +25 °C (2 to 98 %RH) ±0,03 %RH/K ±1 digit	0572 6172
Humidity/temperature probe 4 mm	€ 3	0 to +40 °C 0 to 100 %RH	±0,3 °C ±2 %RH at +25 °C (2 to 98 %RH) ±0,08 %RH/K ±1 digit	0572 6174



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