Data sheet
testo 510

Be sure. testo

Differential pressure measuring instrument

testo 510 – Pocket-sized differential pressure measurement

Illustration 1:1

- Differential pressure measurement 0 to 100 hPa
- Flow velocity measurement possible with Pitot tube
- Temperature and air density compensation
- Display illumination
- 10 selectable units

testo 510 measures differential pressure in the range from 0 to 100 hPa. The differential pressure measurement is temperature-compensated for accurate measurement values. The measurement values can be displayed in Pascal over the entire measurement range. Magnets at the rear permit free-hand work. The backlit display allows the measurement values to be easily read out, even in unfavourable light conditions. The testo 510, in combination with a Pitot tube, measures air flow velocity. For accurate measurement values, the air density can be compensated. testo 510 is very handy, small and easy to operate.

Be sure. testo

Technical data / Accessories

Pressure set testo 510

testo 510 handy measuring instrument for differential pressure, hose set (Ø 4 mm and 5 mm) with adapter, incl. protection cap, batteries, belt holder and calibration protocol

Part no. 0563 0510

Sensor type	**Differential pressure sensor**
Measuring range	0 to 100 hPa
Accuracy ±1 digit	±0.03 hPa (0 to 0.30 hPa) ±0.05 hPa (0.31 to 1.00 hPa) ±(0.1 hPa + 1.5 % of m.v.) (1.01 to 100 hPa)
Resolution	0.01 hPa

General technical data

Positive pressure	500 mbar
max. static pressure	1.5 bar
Operating temperature	0 to +50 °C
Storage temperature	-40 to +70 °C
Selectable units	hPa, mbar, Pa, mmH2O, inH2O, inHg, mmHg, psi, m/s, fpm
Protection class	IP40
Battery type	2 AAA micro batteries
Battery life	50 h (average, without display illumination)
Measurement rate	0.5 s
Dimensions	119 x 46 x 25 mm
Weight	90 g (with batteries and protective cap)

Accessories for measuring instrument	**Part no.**	
Connection hose, silicone, 2 m long, max. load 700 hPa (mbar)	0554 0448	
Belt holder	0516 4007	
ISO calibration certificate pressure; differential pressure; 3 points distributed over meas. range	0520 0095	
ISO calibration certificate pressure; differential pressure; 5 points distributed over meas. range	0520 0005	

0981 9764/msp/l/01.2021

Subject to change without notice.