

Differential pressure measuring instrument

testo 510 – Pocket-sized digital manometer

Differential pressure measurement 0 to 40 inH₂O

Flow velocity measurement possible with Pitot tube

Temperature and air density compensation

Backlit LED Display

10 selectable units of measure

Includes silicone hoses



inH₂O
/ hPa

f/m
m/s

The testo 510 is very handy, small and easy to operate. It measures differential pressure in a range of 0 to 40 inH₂O. The differential pressure measurement is temperature-compensated for accurate measurement values which can be displayed in Inches of Water Column over the entire measurement range. Magnets on the back of the 510 permit

free-hand work. The backlit display allows the measurement values to be easily read out, even in unfavorable light conditions.

The testo 510, in combination with an optional Pitot tube, measures air flow velocity. For accurate measurement values, the air density can be compensated.



Technical data

testo 510

testo 510 handy measuring instrument for differential pressure, hose set (Ø 0.16 to 0.20 in.) with adapter, incl. protection cap, batteries, belt holder, hoses and calibration protocol

Part no. 0563 0510



Sensor type

Differential pressure sensor

Measuring range	0 to 40.00 inH ₂ O (0 to 100 hPa)
Accuracy ±1 digit	±0.012 inH ₂ O (0 to 0.12 inH ₂ O) ±0.03 hPa (0 to 0.3 hPa) ±0.02 inH ₂ O (0.125 to 0.402 inH ₂ O) ±0.05 hPa (0.31 to 1.00 hPa) ±0.04 inH ₂ O +1.5% of m.v. (0.405 to 40 inH ₂ O) ±0.1 hPa + 1.5 % of m.v. (1.01 to 100 hPa)
Resolution	0.401 inH ₂ O (0.01 hPa)

General technical data

Positive pressure	201 inH ₂ O (500 mbar)
max. static pressure	603 inH ₂ O (1.5 bar)
Operating temperature	32 to 122 °F (0 to +50 °C)
Storage temperature	-40 to 158 °F (-40 to +70 °C)
Selectable units	inH ₂ O, hPa, mbar, Pa, mmH ₂ O, 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	4.68 x 1.8 x 0.98 in. (119 x 46 x 25 mm)
Weight	3.2 oz./ 90 g (w/ batteries and protective cap)
Warranty	2 years

Accessories

Part no.

Accessories for measuring instrument

Pitot tube, stainless steel, 13.8 in.	0635 2145	
Pitot tube, stainless steel, 19.7 in.	0635 2045	
Connection hose, silicone, 6.5 ft. (2 m) long, max. load 700 mbar (700 hPa)	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	

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Subject to change without notice.



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