

# Differential pressure measuring instrument

## testo 510 - Pocket-sized digital manometer

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Differential pressure measurement 0 to 40 inH<sub>2</sub>O

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Flow velocity measurement possible with Pitot tube

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Temperature and air density compensation

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Backlit LED Display

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10 selectable units of measure

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Includes silicone hoses



inH<sub>2</sub>O  
/ 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 inH<sub>2</sub>O. 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



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

General technical data	
Positive pressure	201 inH <sub>2</sub> O (500 mbar)
max. static pressure	603 inH <sub>2</sub> 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 <sub>2</sub> O, hPa, mbar, Pa, mmH <sub>2</sub> 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**

**Accessories for measuring instrument**

	Part no.
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

Subject to change without notice. 0981 9764/msp/I/09.2017