



Differential pressure measuring instrument

testo 510 – Pocket-sized differential pressure measurement

Differential pressure measurement 0 to 100 hPa

Flow velocity measurement possible with Pitot tube

Temperature and air density compensation

Display illumination

10 selectable units



hPa

m/s

Illustration 1.1

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.

Technical data / Accessories



| 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) |
| Warranty | 2 years |

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| Accessories | Part no. |
|--|-----------|
| Accessories for measuring instrument | |
| 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 |

Subject to change without notice.

