

# Differential pressure measuring instrument

## testo 510 – Pocket-sized differential pressure measurement

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Differential pressure measurement 0 to 100 hPa

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Flow velocity measurement possible with Pitot tube

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Temperature and air density compensation

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Display illumination

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10 selectable units

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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<br>±1 digit | ±0.03 hPa (0 to 0.30 hPa)<br>±0.05 hPa (0.31 to 1.00 hPa)<br>±(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, mmH <sub>2</sub> O, inH <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            | 119 x 46 x 25 mm   |
| Weight                | 90 g (with batteries and protective cap)   |
| Warranty              | 2 years  |

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 |  |