Differential pressure transmitter
testo 6321

Measurement of differential pressure in the measuring range from 100 Pa to 2 bar

Magnet valve for the automatic zero-point adjustment guarantees high temperature-independent accuracy and long-term stability

Adjustment and analysis via parameterization and adjustment software save time and costs in commissioning and maintenance

Available with and without display

A differential pressure transmitter with a good price/performance ratio for applications in air conditioning and ventilation technology.

The testo 6321 is excellently suitable for the differential pressure-based monitoring of air filters, blowers and air flow, for a good climate with optimum energy efficiency.

The highly accurate and long-term stable testo 6321 provides the measurement values needed to monitor and regulate differential pressure safely and efficiently in air conditioning, ventilation and cleanroom technology.

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## Technical data

### Measurement parameters

<table>
<thead>
<tr>
<th>Differential pressure</th>
<th>Measuring range</th>
<th>Overload capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0 to 100 Pa</td>
<td></td>
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<tr>
<td></td>
<td>0 to 10 hPa</td>
<td>20000 Pa</td>
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<tr>
<td></td>
<td>0 to 20 hPa</td>
<td>200 Pa</td>
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<tr>
<td></td>
<td>0 to 50 hPa</td>
<td>200 hPa</td>
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<tr>
<td></td>
<td>0 to 100 hPa</td>
<td>750 hPa</td>
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<tr>
<td></td>
<td>0 to 500 hPa</td>
<td>750 hPa</td>
</tr>
<tr>
<td></td>
<td>0 to 1000 hPa</td>
<td>750 hPa</td>
</tr>
<tr>
<td></td>
<td>0 to 2000 hPa</td>
<td>750 hPa</td>
</tr>
<tr>
<td></td>
<td>-100 to 100 Pa</td>
<td>20000 Pa</td>
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<tr>
<td></td>
<td>-10 to 10 hPa</td>
<td>200 hPa</td>
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<tr>
<td></td>
<td>-20 to 20 hPa</td>
<td>200 hPa</td>
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<tr>
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<td>-50 to 50 hPa</td>
<td>750 hPa</td>
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<tr>
<td></td>
<td>-100 to 100 hPa</td>
<td>750 hPa</td>
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<tr>
<td></td>
<td>-500 to 500 hPa</td>
<td>2500 hPa</td>
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<tr>
<td></td>
<td>-1000 to 1000 hPa</td>
<td>2500 hPa</td>
</tr>
<tr>
<td></td>
<td>-2000 to 2000 hPa</td>
<td>2500 hPa</td>
</tr>
</tbody>
</table>

### General

#### Housing
- Material / colour: ABS / white (RAL 9010) or light grey
- Weight: Approx. 160 g

#### Display
- Display: 2-line LCD (optional)

#### Resolution
- Measuring range | Resolution
  - 0 to 100 Pa | 0.1 Pa
  - 0 to 10 hPa | 0.01 hPa
  - 0 to 20 hPa | 0.01 hPa
  - 0 to 50 hPa | 0.01 hPa
  - 0 to 100 hPa | 0.1 hPa
  - 0 to 500 hPa | 0.1 hPa
  - 0 to 1000 hPa | 1 hPa
  - 0 to 2000 hPa | 1 hPa
  - -100 to 100 Pa | 0.1 Pa
  - -10 to 10 hPa | 0.01 hPa
  - -20 to 20 hPa | 0.01 hPa
  - -50 to 50 hPa | 0.01 hPa
  - -100 to 100 hPa | 0.1 hPa
  - -500 to 500 hPa | 0.1 hPa
  - -1000 to 1000 hPa | 1 hPa
  - -2000 to 2000 hPa | 1 hPa

#### Overload capacity
- Measuring range | Overload
  - 0 to 100 Pa | 20000 Pa
  - 0 to 10 hPa | 200 Pa
  - 0 to 20 hPa | 200 hPa
  - 0 to 50 hPa | 2500 hPa
  - 0 to 100 hPa | 2500 hPa
  - 0 to 2000 hPa | 2500 hPa
  - -100 to 100 Pa | 20000 Pa
  - -10 to 10 hPa | 200 hPa
  - -20 to 20 hPa | 200 hPa
  - -50 to 50 hPa | 750 hPa
  - -100 to 100 hPa | 750 hPa
  - -500 to 500 hPa | 2500 hPa
  - -1000 to 1000 hPa | 2500 hPa
  - -2000 to 2000 hPa | 2500 hPa

#### Protection class
- IP65
- only when the transmitter is wired and/or sealing plugs are in use

#### EMC
- EC guideline: 2004/108/EC

#### Automatic zero-point adjustment
- Every 60 seconds ex-works

### Inputs and outputs

#### Analog outputs
- Output type: to 15/10 V (4-wire)
- 4 to 20 mA (4-wire)
- Measuring rate: 1/s
- Resolution: 12 bit
- Accuracy of the analog outputs:
  - 0 to 1 V ±0.5 mV
  - 0 to 5 V ±12.5 mV
  - 0 to 10 V ±25 mV
  - 4 to 20 mA ±0.05 mA
- Max. load: 500 Ω

### Further outputs
- other analog outputs: Mini DIN for P2A software (adjustment and parameterization software)

### Supply
- Voltage supply: 20 to 30 V AC/DC
- Current consumption: 300 mA

### Operating conditions
- Temperature of medium: -5 to +50 °C
- Humidity of medium: 0 ... 90 %RH
- Operating temperature: -5 to +50 °C
- Storage temperature: -20 to +60 °C

### The determination of measurement uncertainty takes place according to GUM (Guide to the Expression of Uncertainty in Measurement):
For the determination of measurement uncertainty, the accuracy of the measuring instrument (hysteresis, linearity, reproducibility), the uncertainty contribution of the test site as well as the uncertainty of the adjustment site (works calibration) are taken into account. For this purpose, the value of k=2 of the extension factor, which is usual in measurement technology is used as a basis, which corresponds to a trust level of 95%.

Subject to change without notice.
Technical drawings / Connection plan

Technical drawings

Connection plan
Options / Ordering example

The following options can be specified for the testo 6321

<table>
<thead>
<tr>
<th>AXX Measuring range</th>
<th>BXX Analog output / supply</th>
<th>CXX Display</th>
<th>EXX Housing colour</th>
<th>FXX Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>A03 0 to 100 Pa</td>
<td>B02 0 to 1 V (4-wire, 24 VAC/DC)</td>
<td>C00 without display</td>
<td>E01 Housing colour light grey, incl. Testo logo (coloured)</td>
<td>F01 Pa / min / max</td>
</tr>
<tr>
<td>A05 0 to 10 hPa</td>
<td>B03 0 to 5 V (4-wire, 24 VAC/DC)</td>
<td>C01 with display</td>
<td>E02 Neutral housing, white, without Testo logo</td>
<td>F02 hPa / min / max</td>
</tr>
<tr>
<td>A06 0 to 20 hPa</td>
<td>B04 0 to 10 V (4-wire, 24 VAC/DC)</td>
<td></td>
<td>E03 Neutral housing, white, incl. Testo logo (black/white)</td>
<td>F03 kPa / min / max</td>
</tr>
<tr>
<td>A07 0 to 50 hPa</td>
<td>B06 4 to 20 mA (4-wire, 24 VAC/DC)</td>
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<td>F04 mbar / min / max</td>
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<tr>
<td>A08 0 to 100 hPa</td>
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<td></td>
<td>F05 bar / min / max</td>
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<tr>
<td>A09 0 to 500 hPa</td>
<td></td>
<td></td>
<td></td>
<td>F06 mm H₂O / min / max</td>
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<tr>
<td>A10 0 to 1000 hPa</td>
<td></td>
<td></td>
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<td>F07 inch H₂O / min / max</td>
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<tr>
<td>A11 0 to 2000 hPa</td>
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<td></td>
<td></td>
<td>F08 inch H₂G / min / max</td>
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<tr>
<td>A23 -100 to 100 Pa</td>
<td></td>
<td></td>
<td></td>
<td>F09 kg/cm² / min / max</td>
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<tr>
<td>A25 -10 to 10 hPa</td>
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<td></td>
<td></td>
<td>F10 PSI / min / max</td>
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<td>A26 -20 to 20 hPa</td>
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<tr>
<td>A27 -50 to 50 hPa</td>
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<td>A28 -100 to 100 hPa</td>
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<td>A29 -500 to 500 hPa</td>
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<tr>
<td>A30 -1000 to 1000 hPa</td>
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<tr>
<td>A31 -2000 to 2000 hPa</td>
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</tbody>
</table>

Order code for testo 6321 transmitter with the following options:
- Measuring range 0 to 100 Pa
- Analog output 0 to 5 V
- Without display
- Housing colour light grey
- Unit Pa

0555 6321 A03 B03 C00 E01 F01 0 100

Delivery incl. wall holder

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