### GENERAL
The differential pressure transmitters of the DPTE series are used for measuring differential pressure, positive pressure, and vacuum. The transmitters are suitable for:
- air-conditioning,
- building automation,
- environmental protection,
- valve and flap control,
- filter and blower monitoring,
- fluid and level monitoring, and
- control of air flows.

### MODELS

<table>
<thead>
<tr>
<th>order no.</th>
<th>pressure range</th>
<th>overload capacity</th>
<th>burst pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>DPTE50SD</td>
<td>-50…0…+50 Pa(^1)</td>
<td>n.a.</td>
<td>20 kPa</td>
</tr>
<tr>
<td>DPTE100SD</td>
<td>-100…0…+100 Pa(^1)</td>
<td>n.a.</td>
<td>20 kPa</td>
</tr>
<tr>
<td>DPTE500SD</td>
<td>-500…0…+500 Pa(^1)</td>
<td>n.a.</td>
<td>20 kPa</td>
</tr>
<tr>
<td>DPTE1000SD</td>
<td>-1 kPa…0…+1 kPa(^2)</td>
<td>n.a.</td>
<td>40 kPa</td>
</tr>
<tr>
<td>DPTE10ID</td>
<td>0…100 Pa(^3)</td>
<td>0…250 Pa(^3)</td>
<td>20 kPa</td>
</tr>
<tr>
<td>DPTE250ID</td>
<td>0…250 Pa(^3)</td>
<td>0…500 Pa(^3)</td>
<td>20 kPa</td>
</tr>
<tr>
<td>DPTE500ID</td>
<td>0…500 Pa(^3)</td>
<td>0…1 kPa(^3)</td>
<td>20 kPa</td>
</tr>
<tr>
<td>DPTE1000D</td>
<td>0…1 kPa(^3)</td>
<td>0…2.5 kPa(^3)</td>
<td>40 kPa</td>
</tr>
<tr>
<td>DPTE5000D</td>
<td>0…5 kPa(^3)</td>
<td>0…10 kPa(^3)</td>
<td>60 kPa</td>
</tr>
</tbody>
</table>

\(^1\) Temperature error at 0…50 °C ≤ ± 5% of full scale (FS)
\(^2\) Temperature error at 0…50 °C ≤ ± 2.5% of full scale (FS)
\(^3\) Temperature error at 0…50 °C ≤ ± 1% of full scale (FS)

### FEATURES
- Monitoring gaseous, non-aggressive media
- Piezo-resistive pressure transducer
- Up to 40 kPa (60 kPa) overload capacity
- Rugged design; protection class IP64
- Easy installation and wiring connection
- Measurement range adjustable by jumper
- Response time adjustable by jumper
- Output signal adjustable by jumper
- Red digital display
- Display of values > +1000 Pa in kPa
- Re-zeroing possible by pushbutton

### NOTE:
These sensors are not suitable for use in installations under periodic inspection by the U.S. Food and Drug Administration.

### SPECIFICATION
- Supply voltage: 18…30 Vac/dc, 50/60 Hz
- Output signal: 0…10 Vdc (factory setting) / 4…20 mA
- Pressure medium: Air + non-aggressive gases
- Working temperature: 0…50 °C
- Linearity and hysteresis error: ≤ ± 1.0% of FS
- Temperature error: see "Models"
- Storage temperature: -10…+70 °C
- Humidity: 0…95% rh, non-condensing
- Repetition accuracy: ≤ ± 0.2% of FS
- Response time: 1 s (factory setting) / 100 ms
- Process connection: 6 mm hose pipe
- Electrical connection: Screw terminal block for wire up to 1.5 mm²
- Housing material: ABS and POM
- Cable entry: M20x1.5 (polyamide)
- Protection class: IP54 as per EN60529
- EMV: EN60770, EN61326
- Weight: approx. 130 g
**MOUNTING**

Fig. 1. Dimensions (in mm)

**WIRING**

Fig. 2. Mounting

Fig. 3. Wiring details

**Differential Pressure Transmitter**

- **STORAGE POSITION FOR JUMPERS**
  - P2 (LOW PRESSURE)
  - P1 (HIGH PRESSURE)

- **PRESURE RANGE**
  - Jumper inserted = pressure range 1
  - Jumper removed = pressure range 2

- **RESPONSE TIME**
  - Jumper inserted = 1 sec
  - Jumper removed = 100 msec

- **ANALOG OUTPUT**
  - Jumper inserted = 0...10 V
  - Jumper removed = 4...20 mA

- **LOAD**
  - 0...10 V / 4...20 mA
  - 18...30Vac/dc

- **GROUND**
  - DO NOT USE!

- **DIGITAL DISPLAY**

- **REZEROING**:
  - Remove tubes and push button approx. 5 sec.

Honeywell

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