### Features

- Compact differential pressure transmitter for basic applications
- ± measurement ranges and asymmetric measurement ranges
- Either with one fixed measurement range or toggling between 4 different measurement ranges (can be selected via DIP switches, optional)
- Optionally with 2-wire technology (ZWL)
- With optional display
- With optional relay (6 A)
- Suitable for top-hat rail mounting and wall surface installation

### Measurement ranges

<table>
<thead>
<tr>
<th>Standard (e.g. 0..100 Pa)</th>
<th>0..100/200/500 Pa</th>
</tr>
</thead>
<tbody>
<tr>
<td>toggles between:</td>
<td>1</td>
</tr>
<tr>
<td>100 Pa/250 Pa/500 Pa</td>
<td>0</td>
</tr>
<tr>
<td>100 Pa/250 Pa/500 Pa</td>
<td>2</td>
</tr>
</tbody>
</table>

| Toggles between:         | 1                 |
| 1 kPa/2.5 kPa/5 kPa/10 kPa | 3                 |
| 10 kPa/25 kPa/50 kPa/100 kPa | 4                 |

### Margin of error

- ± 2 % of the set value for ≥ 100 Pa or
- ± 3 % of the set value for 50 Pa

### Temperature coefficient span

0.1 % of max. value/K

### Temperature coefficient zero point

0.1 % of max. value/K

### Overload capacity

- 50 kPa for measurement ranges ≤ 2 kPa
- 200 kPa for measurement ranges > 2 kPa
- 500 kPa for measurement ranges > 10 kPa

### Medium

Air, all non-aggressive gases

### Max. system pressure

- 10 kPa for measurement ranges ≤ 10 kPa
- Max. nominal pressure of sensor for measurement ranges above 10 kPa

### Sensor response time

20 ms

### Time constants

20 ms, 4 s adjustable (factory-provided)

### Operating temperature

-20..60 °C with Display 0..50 °C

### Storage temperature

-20..70 °C

### Power consumption

Approx. 1 VA

### Weight

Approx. 0.25 kg

### Cable glands

2 x M12

### Pressure ports

For tubing NW 4 or 8 mm

### Protection class

IP65

### Certificates

CE

---

**Relay parameter can be pre-set on request.**

---

**Output**

<table>
<thead>
<tr>
<th>A</th>
<th>0..10 V (R_L ≥ 50 kΩ)</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td>B</td>
<td>24 VAC/DC ± 10 % AC/DC</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>2.10 V (R_L ≥ 50 kΩ)</td>
<td>2</td>
</tr>
<tr>
<td>D</td>
<td>0..20 mA (R_L ≤ 50 kΩ)</td>
<td>0</td>
</tr>
<tr>
<td>E</td>
<td>15..32 VDC ZWL</td>
<td></td>
</tr>
<tr>
<td>F</td>
<td>4..20 mA (R_L ≤ 50 kΩ)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>0..5 V (R_L ≥ 50 kΩ)</td>
<td>5</td>
</tr>
</tbody>
</table>

**Contact point**

<table>
<thead>
<tr>
<th>0</th>
<th>1 relay (changeover contacts)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>max. 230 VAC, 6 A</td>
</tr>
<tr>
<td></td>
<td>(min. required switching capacity 300 mW) (not for two-wire)</td>
</tr>
</tbody>
</table>

**LCD**

<table>
<thead>
<tr>
<th>0</th>
<th>None</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>4-digit</td>
</tr>
</tbody>
</table>

**Time constant**

<table>
<thead>
<tr>
<th>20 msec</th>
<th>30 msec</th>
<th>60 msec</th>
<th>120 msec</th>
<th>250 msec</th>
<th>500 msec</th>
<th>1 sec</th>
<th>2 sec</th>
<th>4 sec</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td>30</td>
<td>60</td>
<td>120</td>
<td>250</td>
<td>500</td>
<td>1</td>
<td>2</td>
<td>4</td>
</tr>
</tbody>
</table>

**Order code**

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
</tr>
</thead>
<tbody>
<tr>
<td>PS27</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
MEASUREMENT OF DIFFERENTIAL PRESSURE

Measurement of differential pressure is useful in a broad range of applications. It is used in ventilation and air-conditioning technology but also in many areas of air handling process technology. The next pages show a number of these.

Halstrup-Walcher offers a wide range of products for stationary measurement of differential pressure:

<table>
<thead>
<tr>
<th>Product</th>
<th>PUC24</th>
<th>PUC28 (K)</th>
<th>P26</th>
<th>P34</th>
<th>P29</th>
<th>PU/PI/PIZ</th>
<th>PS27</th>
<th>REG21</th>
</tr>
</thead>
<tbody>
<tr>
<td>Details on</td>
<td>p. 14</td>
<td>p. 15</td>
<td>p. 16</td>
<td>p. 17</td>
<td>p. 18</td>
<td>p. 19</td>
<td>p. 20</td>
<td>p. 21</td>
</tr>
</tbody>
</table>

Applicaiton
- Process monitoring for cleanrooms (Pa, °C, % rH), with stainless steel front
- Process monitoring panel aluminium, anodised (optional: with calibration port) (Pa, °C, % rH)
- High precision, freely scalable pressure transmitter for critical applications
- Measuring transmitter with very small dimensions – ideal for the control cabinet
- High precision, freely scalable pressure transmitter for natural gas
- For standard applications. PIZ: in two wire technology
- A basic sensor for simple applications
- Measurement and regulation of pressure

Housing installation
- Installed in wall (panel)
- Mounted on a wall/top-hat rail
- Rack

Max. measurement range
- ± 250 Pa
- ± 100 kPa

Min. measurement range
- ± 100 Pa
- ± 10 Pa
- ± 250 Pa
- ± 50 Pa

Degree of measurement uncertainty
- ± 0.5 % 1) (standard)
- ± 0.2 % 1) (optional)
- ± 0.5 % 1) (standard)
- ± 0.2 % 1) (optional)
- ± 0.5 % 1) (standard)
- ± 0.2 % 1) (optional)
- ± 0.5 % 1) (optional)
- ± 1 % 1) (optional)
- ± 0.5 % 1)
- ± 1 % 1)

Square-root (volume flow)
- -
- -
- ✓ 3)
- ✓ 3)
- ✓ 3)
- ✓ 3)
- -
- -
- -

Display
- ✓
- ✓
- optional
- optional
- optional
- optional
- ✓

1) of max. value
2) for measurement ranges ≥ 250 Pa
3) optionally with stat. pressure sensor and temperature analogue output for compensation

ACCESSORIES

Certificates (see p. 42)
- DAkkS calibration certificate (German)
- DAkkS calibration certificate (English)
- ISO factory calibration certificate

Order no.
9601.0003
9601.0004
9601.0002

User software
You can set the parameters for our instruments or monitor and record measurements using a PC via a USB or RS232 interface. These features are supported by our free user software. This also allows you to transfer your settings to other devices by saving and reusing them.

Our user software is compatible with the following pressure transmitters: PUC24, PUC28 (K), P26, P34 and P29.

You can download the file here: www.halstrup-walcher.de/en/software

Connecting components
- Silicone tubing ID 5 mm, OD 9 mm, red (please state length required)
- Silicone tubing ID 5 mm, OD 9 mm, blue (please state length required)
- Norprene tubing (please state length required)
- Y-piece for tubing

Order no.
9601.0160
9601.0161
9061.0132
9601.0171

Pressure ports
We can supply a wide range of customer-specific pressure ports, e.g. various cutting ring couplings or hose connectors.