Features

- TÜV-tested differential pressure transmitter for natural gas
- Design changes and technical modifications keep ignition source and gas mixture safely separated (not suitable for Ex-applications)
- Scalable measurement range and display
- For pressure and volume flow measurement
- Zero-point correction prevents zero-point drift
- Built-in valve provides a high level of overload protection
- Also suitable for top-hat rail mounting
- Multilingual menu (English/French/German/Italian)

Measurement ranges

<table>
<thead>
<tr>
<th>Measurement range</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>e.g. 0..250 Pa, 0..100 mmHg etc.</td>
<td></td>
</tr>
</tbody>
</table>

Margin of error

<table>
<thead>
<tr>
<th>Margin of error</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>±0.2 % FS²</td>
<td>2</td>
</tr>
<tr>
<td>±0.5 % FS</td>
<td>S</td>
</tr>
</tbody>
</table>

² For measurement ranges ≤ 50 kPa

Power supply

<table>
<thead>
<tr>
<th>Power supply</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>24 V DC ± 10 %</td>
<td>24 DC</td>
</tr>
</tbody>
</table>

Output (linear/root-extracted)

<table>
<thead>
<tr>
<th>Output (linear/root-extracted)¹</th>
<th>A</th>
</tr>
</thead>
<tbody>
<tr>
<td>0..10 V (R_L ≥ 2 kΩ)</td>
<td>1</td>
</tr>
<tr>
<td>0..20 mA (R_L ≤ 500 Ω)</td>
<td>0</td>
</tr>
<tr>
<td>4..20 mA (R_L ≤ 500 Ω)</td>
<td>4</td>
</tr>
<tr>
<td>±5 V (R_L ≥ 2 kΩ)</td>
<td>5</td>
</tr>
</tbody>
</table>

¹ Output signals can be configured freely

Order code

<table>
<thead>
<tr>
<th>Order code</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
</tr>
</thead>
<tbody>
<tr>
<td>P29</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
</tbody>
</table>

Can be pre-set on request:

Time constant, relay parameter, analogue output root-extracted/linear, deactivation of the cyclic zeroing

TÜV-tested

As long as the customer observes the specified flushing process, special electronic encapsulation safely separates any ignition sources from flammable gas.
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>

**Application**
- Process monitoring for clean-rooms (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
  - 0 .. 100 kPa
  - ± 100 kPa

- Min. measurement range
  - ± 100 Pa
  - ± 10 Pa
  - 0 .. 250 Pa
  - ± 50 Pa

- Margin of error (± 0.3 Pa margin of error for reference)
  - ± 0.5 % FS (standard)
  - ± 0.2 % FS (optional)
  - ± 0.5 % FS (standard)
  - ± 0.2 % FS (optional)
  - ± 0.5 % FS (standard)
  - ± 0.2 % FS (optional)
  - ± 0.5 % FS (standard)
  - ± 0.2 % FS (optional)
  - ± 0.5 % FS (standard)
  - ± 0.5 % FS (optional)
  - ± 0.5 % FS (standard)

- Square-root (volume flow)
  - -
  - -

- Display
  - ✓
  - ✓
  - ✓
  - ✓
  - ✓
  - ✓

1) for measurement ranges ≤ 50 kPa
2) for measurement ranges ≥ 250 Pa and ≤ 50 kPa
3) optionally with stat. pressure sensor and temperature analogue output for compensation

**ACCESSORIES**

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

**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

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

**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](http://www.halstrup-walcher.de/en/software)