OEM pressure transmitter
For technical and medical gases
Model PGT04

Applications
■ For measuring static pressures in dry gaseous media that will not attack copper alloy parts
■ Technical gases
■ Medical gases

Special features
■ Measuring ranges from 0 … 100 to 0 … 400 bar
■ Compact and robust design
■ Output signal 0.5 … 4.5 V @ DC 5 V (ratiometric)
■ Electrical connection: Circular connector M12 x 1

Description
Outstanding performance
Very good resistance to the effects of external shock and vibration and also IP65 ingress protection qualify the PGT04, in particular, for the operating conditions in the technical and medical gases sector.

For the case, a highly resistant glass-fibre reinforced plastic (PTB) has been selected. This material has been successfully used within the automotive industry for many years.

Very good EMC characteristics in accordance with EN 61326-1 and EN 61326-2-3 enable reliable operation even under severe EMC conditions.

Interesting price-performance ratio
The model PGT04 pressure transmitter has been specifically developed for OEM applications. Especially for high-volume OEM requirements, this product concept assures a very interesting price-performance ratio.

Individual customer variants
Based on many years experience in manufacturing and development, WIKA is also happy to offer customer-specific solutions.
### Specifications

**OEM pressure transmitter model PGT04**

| Measuring range | ■ 0 ... 100 bar  
|                 | ■ 0 ... 160 bar  
|                 | ■ 0 ... 200 bar  
|                 | ■ 0 ... 315 bar  
|                 | ■ 0 ... 400 bar  |

**Pressure limitation**
Steady: 3/4 x upper limit of measuring range, short time: Upper limit of measuring range

**Measuring principle**
Helical tube, Hall sensor

**Material**
Wetted parts: Brass, CuBe
Case: Highly resistant glass-fibre reinforced plastic (PBT)

**Process connection**
G ¼ B (male)

**Electronics**
Output signal: 0.5 ... 4.5 V (ratiometric)
Power supply $U_B$: DC 5 V
Permissible max. load $R_A$: $R_A > 5 \, \text{k}\Omega$
Insulation voltage: AC 500 V

**Accuracy**
$\leq 5.0 \%$ of span incl. non-linearity, hysteresis, zero offset and end value deviation

**Permissible temperature ranges**
- Medium: -20 ... +60 °C
- Ambient: -20 ... +60 °C
- Storage: -40 ... +70 °C

**Temperature effect**
$\leq 0.8 \% \text{ of span/10 K}$

**Shock resistance**
150 m/s² (analogous to EN 837-1)

**Vibration resistance**
5 m/s² (analogous to EN 837-1)

**Wiring protection**
Overvoltage protection: In accordance with EMC testing per EN 61000-4-(2-6)
Reverse polarity protection: Depending on the design

**Ingress protection**
IP65 per EN/IEC 60529 when connected

### Options
- Other media on request
- Other measuring ranges on request
- Other process connections on request
- Other versions on request

### Approvals

<table>
<thead>
<tr>
<th>Logo</th>
<th>Description</th>
<th>Country</th>
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</thead>
<tbody>
<tr>
<td>CE</td>
<td>EC declaration of conformity</td>
<td>European Community</td>
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<tr>
<td></td>
<td>■ EMC directive</td>
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<td></td>
<td>■ Pressure equipment directive</td>
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</table>
Certificates (option)

- 2.2 test report per EN 10204 (e.g. state-of-the-art manufacturing, indication accuracy)
- 3.1 inspection certificate per EN 10204 (e.g. indication accuracy)

Approvals and certificates, see website

Dimensions in mm

<table>
<thead>
<tr>
<th>Standard version</th>
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<td>Weight: 35 g</td>
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Electrical connection

Circular connector M12 x 1, 3-pin

<table>
<thead>
<tr>
<th>Pin</th>
<th>Assignment</th>
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<tbody>
<tr>
<td>1</td>
<td>U0+</td>
</tr>
<tr>
<td>3</td>
<td>GND</td>
</tr>
<tr>
<td>4</td>
<td>USIG+</td>
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</tbody>
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Ordering information

Model / Measuring range / Connection size / Options

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