Bourdon Tube Pressure Gauges with Switch Contacts
Stainless Steel Case
Type PGS11

Applications
- Pressure gauge for indicating and monitoring the pressure in tanks and for signalling possible leaks
- Pressure gauge for use in gas extinguishing systems
- General industrial applications

Special features
- High switching reliability and long service life
- Design per ASME B40.100 and EN 837-1
- Adjustable contact between 10 and 90% of the scale range

Standard Features

Design
ASME B40.100 & EN 837-1

Sizes
1½” or 2” (40 or 50 mm)

Accuracy class
± 2/1/2% of span (ASME B40.100 Grade A)

Switch point tolerance
± 2.5% of span

Ranges
1½”: 0/30 to 0/6000 PSI
2”: 0/15 to 0/6000 PSI
or other equivalent units of pressure or vacuum

Working range
Steady: 3/4 x full scale value
Fluctuating: 2/3 x full scale value
Short time: full scale value

Operating temperature
Ambient: -40°F to +140°F (-40°C to +60°C)
Medium: +140°F (+60°C) maximum

Temperature error
Additional error when temperature changes from reference temperature of 68°F (20°C) ±0.4% for every 18°F (10°C) rising or falling. Percentage of span.

Connection
Material: Copper alloy
Lower mount (LM) or center back mount (CBM)

Bourdon tube
Material: Copper alloy
≤ 1000 PSI, C-type
> 1000 PSI, helical-type

Movement
Copper alloy

Dial
White aluminum with black lettering

Pointer
Black plastic

Case
Stainless steel
Window
Polycarbonate

Weather protection
NEMA 4X / IP 54

Helium leak test
Leak rate $10^{-5}$ mbar*l/s

**Electrical data**
- Switching voltage: 4.5 to 24 VDC/VAC
- Switching current: 5 to 100 mA
- Contact load: max. 2.4 W
- Switching contact: breaks (NC-normally closed), or makes (NO-normally open) (adjustable between 10 and 90% of the scale range)

Potential-free relay

**Electrical connection**
Flying leads or plug

**Optional extras**
- Other threaded process connection, male or female
- Weather protection NEMA 6 / IP 65 (Type PGS21)
- Double contact
- Custom dial layout
- Other pressure scales available bar, kPa, MPa, kg/cm² and dual scales

**Dimensions**

<table>
<thead>
<tr>
<th>Size</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>T</th>
<th>W</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>1½&quot;</td>
<td>mm</td>
<td>40</td>
<td>34.5</td>
<td>51</td>
<td>30.5</td>
<td>14</td>
<td>14</td>
<td>0.10 kg</td>
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<tr>
<td></td>
<td>in</td>
<td>1.57</td>
<td>1.36</td>
<td>2.0</td>
<td>1.2</td>
<td>0.55</td>
<td>1/8&quot;</td>
<td>0.22 lb</td>
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<tr>
<td>2&quot;</td>
<td>mm</td>
<td>50</td>
<td>35.5</td>
<td>53.5</td>
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<td>14</td>
<td>14</td>
<td>0.12 kg</td>
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<tr>
<td></td>
<td>in</td>
<td>1.97</td>
<td>1.4</td>
<td>2.11</td>
<td>1.4</td>
<td>0.55</td>
<td>1/4&quot;</td>
<td>0.26 lb</td>
</tr>
</tbody>
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Ordering information
Pressure gauge model / Nominal size / Scale range / Size of connection / Optional extras required
Specifications and dimensions given in this leaflet represent the state of engineering at the time of printing. Modifications may take place and materials specified may be replaced by others without prior notice.

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