Capsule pressure gauge, copper alloy
Plastic case
Model 611.16

Applications
For gaseous, dry and non-aggressive media

Special features
- Nominal size 68 mm
- Plastic case with front flange
- Low scale ranges from 0 ... 25 mbar
- Zero point setting in front

Description
The model 611.16 capsule pressure gauges are based upon the proven capsule measuring system. On pressurisation, the expansion of the capsule element, proportional to the incident pressure, is transmitted to the movement and indicated.

The case is made from black plastic, with a snap-fitted window. Wetted parts such as process connection and pressure element are designed with copper alloys.

The modular design enables a multitude of combinations of process connections and scale ranges. Due to this high variance, the instrument is suitable for use in a wide range of applications within industry.

For mounting in control panels, the capsule pressure gauge can, depending on the process connection, be fitted with a mounting bracket.
**Standard version**

**Design**
Following 837-3

**Nominal size in mm**
68

**Accuracy class**
1.6

**Scale ranges**
0 ... 25 mbar to 0 ... 600 mbar
or all other equivalent vacuum or combined pressure and vacuum ranges

**Pressure limitation**
Steady: Full scale value
Fluctuating: 0.9 x full scale value

**Permissible temperature**
Ambient: -20 ... +60 °C (-4 ... +140 °F)
Medium: ≤ 60 °C (≤ 140 °F)

**Temperature effect**
When the temperature at the measuring system deviates from the reference temperature +20 °C (+68 °F): max. ±0.6 %/10 K of full scale value

**Ingress protection per IEC/EN 60529**
IP32

**Process connection**
Copper alloy
Lower mount (radial) or centre back mount
¼" NPT (male), SW 14

**Pressure element**
Copper alloy

**Movement**
Copper alloy

**Zero point setting**
In front

**Dial**
Aluminium, white, black lettering

**Pointer**
Aluminium, black

**Case**
Plastic, black, with front flange

**Window**
Plastic, transparent, snap-fitted window

**Options**
- Other process connections
- Overload or vacuum safety with scale ranges < 40 mbar: 3 x full scale value
  scale ranges ≥ 40 mbar: 10 x full scale value
- Mounting bracket, galvanised steel
- Drag pointer for scale ranges from 0 ... 60 mbar
## Dimensions

### Lower mount (radial)

![Lower mount diagram](image)

### Centre back mount

![Centre back mount diagram](image)

<table>
<thead>
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<th>Dimensions in mm</th>
<th>Weight in kg</th>
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<table>
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<th>Dimensions in inch</th>
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1) for built-in instrument with mounting bracket, D = 72 mm (2.83 in)
2) SW = spanner width

Process connection per EN 837-3 / 7.3
Approvals

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<th>Logo</th>
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<td>GOST Metrology, measurement technology</td>
<td>Russia</td>
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<td>☎</td>
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<td>UkrSEPRO Metrology, measurement technology</td>
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Certificates (option)

- 2.2 test report

Approvals and certificates, see website

Ordering information

Model / Scale range / Process connection / Options