Capsule pressure gauge, copper alloy or stainless steel
Edgewise panel design
Models 614.11, 634.11

Applications
- For gaseous, dry and non-aggressive media that will not attack copper alloy parts
- Model 614.11: Measuring system copper alloy
  Model 634.11: Measuring system stainless steel, also for aggressive media

Special features
- Low scale ranges from 0 ... 2.5 mbar
- Panel mounting
- Zero point setting in front

Description
The model 614.11 and 634.11 capsule pressure gauges are based upon the proven capsule measuring system. The capsule measuring principle is particularly suitable for low pressures. On pressurisation, the expansion of the capsule element, proportional to the incident pressure, is transmitted to the movement and indicated.

The modular design enables a multitude of combinations of case materials, process connections, nominal sizes and scale ranges. Due to this high variance, regarding design and back mount connection, the instrument is suitable for panel mounting in a wide range of applications.
**Standard version**

**Design**
DIN 43700

**Nominal size in mm**
72 x 72, 96 x 96, 144 x 144 and 144 x 72

**Accuracy class**
1.6

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

**Permissible temperature**
Ambient: -20 ... +60 °C  
Medium: +100 °C maximum

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

### Scale ranges

<table>
<thead>
<tr>
<th>NS</th>
<th>Scale ranges in mbar</th>
<th>Model 614.11</th>
<th>Model 634.11</th>
</tr>
</thead>
<tbody>
<tr>
<td>72 x 72</td>
<td>0 ... 25</td>
<td>0 ... 40</td>
<td>0 ... 600</td>
</tr>
<tr>
<td>96 x 96</td>
<td>0 ... 10</td>
<td>0 ... 40</td>
<td>0 ... 600</td>
</tr>
<tr>
<td>144 x 144</td>
<td>0 ... 6</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>144 x 72</td>
<td>0 ... 4</td>
<td>0 ... 2.5</td>
<td>0 ... 600</td>
</tr>
</tbody>
</table>

or all other equivalent vacuum or combined pressure and vacuum ranges

**Ingress protection per IEC/EN 60529**
IP42

**Process connection**
Model 614.11: Copper alloy  
Model 634.11: Stainless steel

**Back mount**
NS 72 x 72 and 96 x 96: G ¼ B (male), SW 14  
NS 144 x 144: G ½ B (male), SW 22  
NS 144 x 72: G ½ B (male), SW 17

**Pressure element**
Model 614.11: Copper alloy  
Model 634.11: Stainless steel

**Sealing**
Model 614.11: NBR  
Model 634.11: Viton®

Viton® fluoroelastomer is a registered trademark of DuPont Performance Elastomers.

**Movement**
Copper alloy, wear parts argentan, with zero adjustment

**Dial**
Aluminium, white, black lettering

**Pointer**
Aluminium, black

**Case (DIN 43700)**
NS 72 x 72, 96 x 96, 144 x 144: Steel, galvanised  
NS 144 x 72: Steel, black

**Window**
NS 144 x 72: Instrument glass  
NS 72 x 72, 96 x 96 and 144 x 144: Clear non-splintering plastic

**Panel frame (DIN 43718)**
Steel, black, narrow, snap-fit

**Options**
- Other process connection  
- Sealings (model 910.17, see data sheet AC 09.08)  
- Overload or vacuum safety with scale ranges < 40 mbar: 3 x full scale value  
  scale ranges ≥ 40 mbar: 10 x full scale value  
- Wide panel frame
Dimensions in mm

Standard version

<table>
<thead>
<tr>
<th>NS</th>
<th>Dimensions in mm</th>
<th>Weight in kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>72 x 72</td>
<td>b₁ 36.5, b₆ 50, e 6, f -</td>
<td>G ¼ B 72, L 62, l₁ -</td>
</tr>
<tr>
<td>96 x 96</td>
<td>b₁ 39, b₆ 50, e 6, f -</td>
<td>G ¼ B 96, L 79, l₁ -</td>
</tr>
<tr>
<td>144 x 144</td>
<td>b₁ 46.5, b₆ 71.5, e 8, f 30</td>
<td>G ½ B 144, L 134, l₁ -</td>
</tr>
<tr>
<td>144 x 72</td>
<td>b₁ 168, b₆ 197, e 8, f 18</td>
<td>G ½ B 144, L 134, l₁ 62, p x p₁ 138 x 67</td>
</tr>
</tbody>
</table>

Process connection per EN 837-3 / 7.3
### Approvals

<table>
<thead>
<tr>
<th>Logo</th>
<th>Description</th>
<th>Country</th>
</tr>
</thead>
<tbody>
<tr>
<td>🇷🇺</td>
<td>GOST (option) Metrology, measurement technology</td>
<td>Russia</td>
</tr>
<tr>
<td>🇰🇿</td>
<td>KazInMetr (option) Metrology, measurement technology</td>
<td>Kazakhstan</td>
</tr>
<tr>
<td>🇰🇿</td>
<td>MTSCHS (option) Permission for commissioning</td>
<td>Kazakhstan</td>
</tr>
<tr>
<td>🇧🇪</td>
<td>BelGIM (option) Metrology, measurement technology</td>
<td>Belarus</td>
</tr>
<tr>
<td>🇷🇺</td>
<td>UkrSEPRO (option) Metrology, measurement technology</td>
<td>Ukraine</td>
</tr>
<tr>
<td>🇺🇿</td>
<td>Uzstandard (option) Metrology, measurement technology</td>
<td>Uzbekistan</td>
</tr>
<tr>
<td>🇨🇳</td>
<td>CPA (option) Metrology, measurement technology</td>
<td>China</td>
</tr>
</tbody>
</table>

### Certificates (option)

- 2.2 test report
- 3.1 inspection certificate

Approvals and certificates, see website

### Ordering information

Model / Nominal size / Scale range / Connection size / Connection location / Options