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>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>
</tr>
<tr>
<td>96 x 96</td>
<td>0 ... 10</td>
<td>0 ... 40</td>
</tr>
<tr>
<td>144 x 144</td>
<td>0 ... 6</td>
<td>0 ... 40</td>
</tr>
<tr>
<td>144 x 72</td>
<td>0 ... 4</td>
<td>0 ... 2.5</td>
</tr>
</tbody>
</table>

or all other equivalent vacuum or combined pressure and vacuum ranges

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)
- Overpressure or vacuum safety with scale ranges ≤ 25 mbar: 3 x full scale value with scale ranges > 25 mbar: 10 x full scale value
- Wide panel frame

Special version
Edgewise panel design with switch contact
NS 144 x 72, max. two switch contacts, scale ranges 0 ... 40 to 0 ... 600 mbar, with bellow-capsule element, arranged in cylindric measuring chamber on case bottom
### Dimensions in mm

**Standard version**

<table>
<thead>
<tr>
<th>NS</th>
<th>Dimensions in mm</th>
<th>Weight in kg</th>
</tr>
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<tbody>
<tr>
<td>b₁</td>
<td>b₆</td>
<td>e</td>
</tr>
<tr>
<td>72 x 72</td>
<td>36.5</td>
<td>50</td>
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<tr>
<td>96 x 96</td>
<td>39</td>
<td>50</td>
</tr>
<tr>
<td>144 x 144</td>
<td>46.5</td>
<td>71.5</td>
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<tr>
<td>144 x 72</td>
<td>168</td>
<td>197</td>
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Process connection per EN 837-3 / 7.3
Approvals

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<td>EU declaration of conformity</td>
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<td>Pressure equipment directive</td>
<td>European Economic Community</td>
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</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