Capsule Pressure Gauges
Process Industry Series
Type 632.50 - Dry Case
Type 633.50 - Liquid-filled Case

Applications
- Robust design and weather protection, suitable for outdoor use
- Suitable for dry, gaseous media that will not attack 316 stainless steel parts
- Process industry: chemical/petrochemical, power stations, mining, on and offshore, environmental technology, mechanical engineering and plant construction

Product features
- Zero-adjustment through window
- All stainless steel construction
- Low pressure ranges from 1" WC to 250" WC (2.5 mbar to 600 mbar)

Specifications

Design
ASME B40.100 & EN 837-3

Sizes
2½", 4" & 6" (63, 100 and 160 mm)

Accuracy class
±1.6% of span

Ranges
2½" (63mm): 0...16" WC (40 mbar) to 0...250" WC (600 mbar)
4" (100mm): 0...6" WC (16 mbar) to 0...250" WC (600 mbar)
6" (160 mm): 0...1" WC (2.5 mbar) to 0...250" WC (600 mbar)
or other equivalent units of pressure or vacuum

Weather protection
Weather resistant (NEMA 3 / IP54)
With case filling (NEMA 4X / IP66)

Pressure connection
Material: 316L stainless steel
Lower mount (LM) or center back mount (CBM) - 2½" (63 mm)
Lower mount (LM) or lower back mount (LBM) - 4" & 6"
(100mm & 160mm)
1/4" NPT or 1/2" NPT limited to wrench flat area

Capsule element
Material: 316L stainless steel with Viton sealing ring

Movement
Stainless steel
Zero adjustment in front on dial

Dial
White aluminum with black lettering

Pointer
Black aluminum

Case
304 stainless steel with stainless steel bayonet ring

Window
Laminated safety glass, Acrylic for case filling (633.50)

Case fill
Silicone - Type 633.50
(only available for full scale ranges > 40" WC)
Optional extras

- Other pressure connections
- ±1.0% accuracy (ASME B40.100 Grade 1A), available in ranges > 16" WC (632.50) and > 40" WC (633.50)
- SS front flange, 4" (100mm) and 6" (160mm) only
- U-clamp mounting, SS, 4" (100mm) and 6" (160mm) only
- Silicone case filling
- Over and underpressure protection
  - < 10" WC (25mbar): 3X of full scale
  - > 10" WC (25mbar): 10X of full scale
- Special connections limited to wrench flat area
- Custom dial layout
- With output signal, size 4" (100mm) only, from ranges > 25" WC (60 mbar)
- With inductive switch (831.XX), size 4" & 6" (100mm & 160mm), from ranges > 40" WC (100 mbar)

Dimensions

<table>
<thead>
<tr>
<th>Size</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>G</th>
<th>H¹</th>
<th>J</th>
<th>L</th>
<th>M</th>
<th>N</th>
<th>S</th>
<th>T</th>
<th>W</th>
<th>Weight²</th>
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<tbody>
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<td>51</td>
<td>42</td>
<td>62</td>
<td>9</td>
<td>58</td>
<td>0</td>
<td>4</td>
<td>3</td>
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<tr>
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<td>100</td>
<td>85</td>
<td>49.5</td>
<td>99</td>
<td>15.5</td>
<td>78</td>
<td>30</td>
<td>4.8</td>
<td>3</td>
<td>132</td>
<td>116</td>
<td>5</td>
<td>22</td>
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<tr>
<td>6&quot;</td>
<td>160</td>
<td>116</td>
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<td>159</td>
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<td>196</td>
<td>178</td>
<td>5</td>
<td>22</td>
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</tbody>
</table>

¹ For size 2.5", connection is center back mount (CBM)
² Weight without optional accessories

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.