XSEL™ Process Gauge - Copper Alloy
Type 212.34 - Dry Case
Type 213.34 - Liquid-filled Case

Applications
- For applications with high dynamic pressure pulsations or vibration a liquid filled case and socket restrictor are available
- Suitable for corrosive environments and gaseous or liquid media that will not obstruct the pressure system
- Process industry: chemical/petrochemical, power stations, mining, on and offshore, environmental technology, mechanical engineering and plant construction

Product features
- Excellent load-cycle stability and shock resistance
- Solid front thermoplastic case
- Positive pressure ranges to 1,000 psi (60 bar)
- XSEL™ Process Gauge with 5 year warranty on gauge and 10 year warranty on pressure system (see terms and conditions)
- All lower mount connection gauges are factory prepared for liquid filling
(LBM: must install membrane prior to field filling)

Specifications

Design
ASME B40.100

Sizes
4½” & 6” (115 & 160 mm) dial size

Accuracy class
± 0.5% of span (ASME B40.100 Grade 2A)

Ranges
Vacuum / Compound to 200 psi (16 bar)
Pressure from 15 psi (bar) to 1,000 psi (60 bar)
or other equivalent units of pressure or vacuum

Working pressure
Steady:  full scale value
Fluctuating: 0.9 x full scale value
Short time: 1.5 x full scale value

Operating temperature
Ambient: -40°F to +140°F (-40°C to +60°C) - dry
-4°F to +140°F (-20°C to +60°C) - glycerine filled
-40°F to +140°F (-40°C to +60°C) - silicone filled
Medium: +140°F (+60°C) maximum

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

Weather protection
Weather resistant (NEMA 3 / IP54) - without membrane
Weather tight (NEMA 4X / IP66) - dry case or filled case with membrane installed

Pressure connection
Material: Copper alloy
Lower mount (LM)
1/4” or 1/2” NPT with M4 internal tap

Restrictor
Material: Stainless steel (0.6 mm), standard

Bourdon tube
Material: Copper alloy
C-shape

Movement
Copper alloy. Internal overload stop set at 1.1 x full scale
Overload stop - standard
Underload stop - optional
Dampened movement - optional

Dial
White aluminum with black lettering, stop pin at 6 o'clock
Standard WIKA psi single scales (4½” only) with large figures at beginning and end for quick and easy identification.

Pointer
Black aluminum, adjustable

Case
Black fiberglass-reinforced thermoplastic (POCAN)
Solid front, blowout back
Turret-style case with built in rear flange lugs
Window
Clear acrylic with Buna-N gasket

Case filling Type 213.34
Glycerine 99.7% and >= 40 psi (2.5 bar)
Glycerine 86.5%/Water 13.5% - < 40 psi (2.5 bar)

Optional extras
- Silicone dampered movement
- Panel mounting adaptor kit (field assembled)
- Silicone case filling
- Halocarbon case filling
- Cleaned for oxygen service
- Instrument glass or safety glass window
- Drag pointer (maximum reading indicator)
- Alarm contacts switches (magnetic or inductive)
- Special process connections
- Custom dial layout
- External zero adjustment (4.5” size only)
- Case and ring in red or yellow thermoplastic (4½” LM only)
- Insight® reflective dial options available in white, fluorescent yellow, fluorescent orange or glow-in-the-dark

Dimensions

<table>
<thead>
<tr>
<th>Size</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>J</th>
<th>K</th>
<th>L</th>
<th>M</th>
<th>N</th>
<th>R</th>
<th>S</th>
<th>T</th>
<th>W</th>
<th>Weight¹</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.5”</td>
<td>mm</td>
<td>128</td>
<td>103</td>
<td>84</td>
<td>120.3</td>
<td>6.3</td>
<td>40</td>
<td>28.5</td>
<td>148</td>
<td>136.5</td>
<td>25</td>
<td>12.5</td>
<td>22</td>
<td>2 lb. dry</td>
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<tr>
<td>in</td>
<td>5</td>
<td>4.06</td>
<td>3.31</td>
<td>4.74</td>
<td>0.248</td>
<td>1.57</td>
<td>1.12</td>
<td>5.83</td>
<td>5.37</td>
<td>0.99</td>
<td>0.49</td>
<td>1/2”</td>
<td>0.87</td>
<td>3 lb. filled</td>
</tr>
<tr>
<td>6”</td>
<td>mm</td>
<td>164</td>
<td>122.5</td>
<td>88</td>
<td>123.4</td>
<td>7.1</td>
<td>40.2</td>
<td>28.5</td>
<td>190</td>
<td>177.8</td>
<td>25.4</td>
<td>12.7</td>
<td>22</td>
<td>3 lb. dry</td>
</tr>
<tr>
<td>in</td>
<td>6.46</td>
<td>4.82</td>
<td>3.46</td>
<td>4.86</td>
<td>0.28</td>
<td>1.58</td>
<td>1.12</td>
<td>7.5</td>
<td>7</td>
<td>1</td>
<td>0.5</td>
<td>1/2”</td>
<td>0.87</td>
<td>4 lb. filled</td>
</tr>
</tbody>
</table>

¹ Weight without optional accessories