XSEL™ Process Gauge - 1019 Steel Socket
Type 222.34 - Dry Case
Type 223.34 - Liquid-filled Case

Applications
- For applications with high dynamic pressure oscillation or vibration a liquid filled case and socket restrictor are available.
- Suitable for corrosive environments and gases 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
- 1019 steel socket and stainless steel tube
- 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” (115 mm) dial size

Accuracy class
± 0.5% of span (ASME B40.100 Grade 2A)
± 1.0% of span (ASME B40.100 Grade 1A)
for 20,000 psi (1600 bar) range

Ranges
Vacuum / Compound to 200 psi (16 bar)
Pressure from 15 psi (1 bar) to 20,000 psi (1600 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 +150°F (-40°C to +65°C) - dry
-40°F to +150°F (-40°C to +65°C) - silicone filled
Medium: max. +212°F (+100°C)

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.

Bourdon Tube Pressure Gauge Model 222.34

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: 1019 steel
Lower mount (LM) or lower back mount (LBM)
1/4” or 1/2” NPT with M4 internal tap

Restrictor
Material: Stainless steel (0.6 mm), standard

Bourdon tube
Material: 316L stainless steel
≤ 1,000 psi (69 bar): C-shape
≥ 1,500 psi (100 bar): Helical

Movement
Stainless steel. 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**
Silicone (1000 cst) - Type 223.34
(Do not use Glycerine case fill)

**Optional extras**
- Silicone dampened movement
- Panel mounting adaptor kit (field assembled)
- 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>Weight</th>
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</thead>
<tbody>
<tr>
<td>4.5&quot;</td>
<td>mm</td>
<td>128</td>
<td>103</td>
<td>84</td>
<td>120.3</td>
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<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>2.0 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&quot;</td>
<td>0.87</td>
<td>3.0 lb. filled</td>
</tr>
</tbody>
</table>

* Weight without optional accessories

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WIKA Datasheet 22X.34 - 06/2015

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