Bourdon tube pressure gauge, stainless steel
With VCR®-compatible process connections
Model 232.35

Applications

- Increased safety requirements for personal protection
- For gaseous, liquid and aggressive media, also in aggressive environments
- Semiconductor and flat panel industry
- Gas distribution systems, medical gases, hook-up application

Special features

- Safety Bourdon tube pressure gauge with solid baffle wall designed in compliance with the requirements and test conditions per EN 837-1
- VCR®-compatible process connections
- Helium leak tested
- Electropolished case (option)

Description

Due to its special VCR® connections, this high-quality Bourdon tube pressure gauge model 232.35 is frequently used in the semiconductor industry and in a wide variety of gas applications.

The often high purity requirements for these applications are ensured, for example, by separate packaging in plastic bags and electropolished cases (optional).

Scale ranges of 0 ... 1 to 0 ... 400 bar ensure the measuring ranges required for a wide variety of applications.

WIKA manufactures and qualifies the pressure gauge in accordance with the requirements of the EN 837-1 European standard in the “S3” safety version. The safety version is made up of a non-splintering window, a solid baffle wall between measuring system and dial and a blow-out back. In the event of a failure, the operator is protected at the front side, as media or components can only be ejected via the back of the case.
## Specifications

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### Pressure limitation
- **Steady** Full scale value
- **Fluctuating** 3/4 x full scale value
- **Short time** 2/3 x full scale value

### Connection location
- Lower mount (radial)
- Lower back mount

### Process connection (copper alloy)
- VCR®-compatible face seal fitting optionally: <br>  - with union nut <br>  - with pressure screw <br>  - male thread 9/16-18 UNF fixed <br>  - Weld-in connection <br> others on request

### Permissible temperature range
- **Medium** -40 ... +100 °C [-104 ... +212 °F] <br> **Ambient** max. +100 °C [+212 °F] <br> **Temperature effect** max. ±0.4 %/10 K of full scale value (when the temperature deviates from 20 °C reference temperature)

### Case
- Safety version S3 per EN 837: With solid baffle wall (Solidfront) and blow-out back <br>  Option: Electropolished

### Case filling
- Without

### Switch contacts (option)
- Magnetic snap-action contact (model 821) <br>  Inductive contact (model 831) <br>  For use in hazardous areas, (ATEX / IECEx) <br>  Electronic contact (model 830 E) <br>  Reed contact (model 851) <br> For further information on switch contacts, see data sheet AC 08.01

### Wetted materials
- Process connection, pressure element <br>  - Stainless steel 316L, C-type <br>  - Stainless steel 316L, helical type

### Non-wetted materials
- Case, bayonet ring, movement Stainless steel <br>  Dial Aluminium, white <br>  Instrument pointer Aluminium, black <br>  Set pointer Aluminium, red <br>  Window Polycarbonate <br> **Ingress protection per IEC/EN 60529** IP54

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### Approvals

<table>
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<tr>
<th>Logo</th>
<th>Description</th>
<th>Country</th>
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<tbody>
<tr>
<td><img src="https://example.com/ce-logo.png" alt="CE" /></td>
<td><strong>EU declaration of conformity</strong>&lt;br&gt;Pressure equipment directive&lt;br&gt;PS &gt; 200 bar, module A, pressure accessory</td>
<td>European Union</td>
</tr>
<tr>
<td><img src="https://example.com/eac-logo.png" alt="EAC" /></td>
<td><strong>EAC (option)</strong>&lt;br&gt;Pressure equipment directive</td>
<td>Eurasian Economic Community</td>
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<td><img src="https://example.com/gost-logo.png" alt="GOST" /></td>
<td><strong>GOST (option)</strong>&lt;br&gt;Metrology, measurement technology</td>
<td>Russia</td>
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<td><strong>KazinMetr (option)</strong>&lt;br&gt;Metrology, measurement technology</td>
<td>Kazakhstan</td>
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<td><strong>UkrSEPRO (option)</strong>&lt;br&gt;Metrology, measurement technology</td>
<td>Ukraine</td>
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<td>China</td>
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<td><img src="https://example.com/crn-logo.png" alt="CRN" /></td>
<td><strong>CRN</strong>&lt;br&gt;Safety (e.g. electr. safety, overpressure, ...)</td>
<td>Canada</td>
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### Certificates (option)

- 2.2 test report per EN 10204
- 3.1 inspection certificate per EN 10204

Approvals and certificates, see website
Dimensions in mm

Standard version

Lower mount (radial)

Lower back mount

1) Ø 8.86 mm with pressure ranges 250 ... 400 bar (greater wall thickness)

Ordering information

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

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