Bourdon Tube Pressure Gauges
Model 131.11, Stainless Steel Series

Applications
- For gaseous and liquid aggressive media that are not highly viscous or crystallising, also in aggressive ambience
- CDA (Clean Dry Air) applications
- Indication of failure alarm on gas cylinders
- Machine building and general plant construction

Special Features
- All stainless steel construction
- Cost-effective and reliable
- Compatible with switch contacts (NS 50)
- Scale ranges up to 0 ... 1000 bar

Description

<table>
<thead>
<tr>
<th>Design</th>
<th>EN 837-1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal size in mm</td>
<td>40, 50, 63</td>
</tr>
<tr>
<td>Accuracy class</td>
<td>2.5</td>
</tr>
</tbody>
</table>
| Scale ranges | NS 40 and 50: 0 ... 1 to 0 ... 600 bar
              | NS 63: 0 ... 1 to 0 ... 1000 bar
              | or all other equivalent vacuum or combined pressure and vacuum ranges |

Pressure limitation
- Steady: 3/4 x full scale value
- Fluctuating: 2/3 x full scale value
- Short time: full scale value

Operating temperature
- Ambient: -40 ... +60 °C
- Medium: +100 °C maximum

Temperature effect
When the temperature of the measuring system deviates from the reference temperature (+20 °C): max. ±0.4 %/10 K of full scale value

Ingress protection
IP 54 per EN 60 529 / IEC 529

Bourdon Tube Pressure Gauge Model 131.11.50 with 2nd scale psi

Data Sheets showing similar devices:
Stainless steel series; model 232.50; see data sheet PM 02.02
**Standard version**

**Process connection**  
Stainless steel 1.4571,  
lower mount (LM) or centre back mount (CBM)  
G ¼ B (male), 14 mm flats

**Pressure element**  
Stainless steel 316L,  
< 100 bar: C-type  
≥ 100 bar: helical type

**Movement**  
Stainless steel

**Dial**  
Aluminium, white, black lettering, with pointer stop pin

**Pointer**  
Aluminium, black

**Case**  
Stainless steel

**Window**  
Polycarbonate, snap-fit in case

**Options**

- Other process connection
- Assembly on diaphragm seals see product review DS
- Slip-on bezel, stainless steel or stainless steel, polished
- Laminated safety glass or instrument glass window (both only in combination with slip-on bezel)
- Panel mounting flange, stainless steel, polished
- Surface mounting flange, stainless steel (NS 63)
- Triangular bezel, stainless steel, polished, with clamp (only with back mount)
- Switch contacts (NS 50, data sheet SP 01.03)

**Special versions**

**Gauges for ammonia plants (NS 63)**  
With temperature scale for refrigerant R 717 (NH₃) in °C,  
scale ranges: -1 ... 0 ... 15 bar or -1 ... 0 ... 26 bar

**Dimensions in mm**

<table>
<thead>
<tr>
<th>NS</th>
<th>Dimensions in mm</th>
<th>Weight in kg</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>a</td>
<td>b₁ ± 1</td>
</tr>
<tr>
<td>40</td>
<td>9</td>
<td>28</td>
</tr>
<tr>
<td>50</td>
<td>9.6</td>
<td>28</td>
</tr>
<tr>
<td>63</td>
<td>10</td>
<td>28</td>
</tr>
</tbody>
</table>

Process connection per EN 837-1 / 7.3

**Ordering information**

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

Modifications may take place and materials specified may be replaced by others without prior notice.  
Specifications and dimensions given in this leaflet represent the state of engineering at the time of printing.