Bourdon tube pressure gauge
Model 111.14, for tyre pressure apparatus

Applications
■ For use in tyre inflation systems for monitoring the tyre pressure when inflating the tyres of motor vehicles
■ Filling stations, garages, service stations

Special features
■ Designs per EN 12645
■ EEC type approval
■ Scale ranges 0 ... 4 bar, 0 ... 10 bar and 0 ... 12 bar

Description
Nominal size in mm
63 and 80

Indication accuracy
\( p_m \leq 4 \text{ bar: } \pm 0.08 \text{ bar} \)
\( 4 \text{ bar} < p_m \leq 10 \text{ bar: } \pm 0.16 \text{ bar} \)
\( p_m > 10 \text{ bar: } \pm 0.25 \text{ bar} \)

Error limits are met within a temperature range between 15 °C and 25 °C

Scale ranges
0 ... 4 bar
0 ... 10 bar
0 ... 12 bar (only NS 80)

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

Permissible temperature
Ambient: -20 ... +60 °C
Medium: +40 °C maximum
Storage: -40 ... +70 °C

Temperature effect
When the temperature of the measuring system deviates from the reference temperature range (-10 ... +40 °C):
\( p_m \leq 4 \text{ bar: } 0.1 \% \text{ of } 4 \text{ bar} \)
\( 4 \text{ bar} < p_m \leq 10 \text{ bar: } 0.05 \% \text{ of } 10 \text{ bar} \)
\( p_m > 10 \text{ bar: } 0.05 \% \text{ of the full scale value} \)

Ingress protection
IP 44 per EN 60529 / IEC 60529
**Standard version**

**Process connection**
Copper alloy
G 1/4 B (male), 14 mm flats
Lower mount (LM) or centre back mount (CBM) (NS 80 only centre back mount)

**Pressure element**
Copper alloy, C-type

**Movement**
Copper alloy

**Dial**
White, black lettering, without pointer stop pin,
scale graduation 0.1 bar
NS 63: Plastic
NS 80: Aluminium

**Pointer**
Knife edge pointer, aluminium, black

**Case**
Plastic, black

**Window**
Clear non-splintering plastic, welded to the case

**Dimensions in mm**

**Standard version**

<table>
<thead>
<tr>
<th>NS</th>
<th>Dimensions in mm</th>
<th>Weight in kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>63</td>
<td>a: 10, b: 27.5, b₁ ±0.5, b₂ ±1, D: 48, G: G 1/4 B, h: 53.5</td>
<td>0.08</td>
</tr>
<tr>
<td>80</td>
<td>- - 32, 49, 79, G 1/4 B, -</td>
<td>0.11</td>
</tr>
</tbody>
</table>

Process connection per EN 837-1 / 7.3

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**Options**

- Other process connection
- Sealings (model 910.17, see data sheet AC 09.08)
- Metal case screw-fitted to slip-on bezel and leaded
Approvals

- EEC, type approval
- GOST, metrology/measurement technology, Russia
- GOST-R, import certificate, Russia
- CRN, safety (e.g. electr. safety, overpressure, ...), Canada

Certificates 1)

- 2.2 test report per EN 10204 (e.g. state-of-the-art manufacturing, material proof, indication accuracy)
- 3.1 inspection certificate per EN 10204 (e.g. indication accuracy)

1) Option

Approvals and certificates, see website

Ordering information
Model / Nominal size / Scale range / Connection size / Options