



## Bourdon tube pressure gauges for industrial applications RF160I

Part no. 85365451

Bourdon tube pressure gauges for industrial applications type D4

### benefits

- for machine and plant engineering
- robust, stainless steel housing with bayonet bezel
- can be equipped with electrical contact
- DNV-GL- and GOSSTANDART-certified

### Application

For gaseous and liquid media which are not highly viscous, do not crystallise and do not attack copper alloys. For high accuracy and rough application conditions.

! For measuring gas or vapour, observe the table "Selection Criteria as per EN 837-2" (see appendix)!

### Technical Specifications

#### Type

D4

#### Nominal size

160

#### accuracy class (EN 837-1/6)

1.0

#### ranges (EN 837-1/5)

see ordering table

#### application area

- ≤ 600 bar: Full scale value
- > 600 bar:  $\frac{3}{4}$  x full scale value
- ≤ 600 bar: 0.9 x full scale value
- > 600 bar:  $\frac{2}{3}$  x full scale value
- ≤ 600 bar: 1.3 x full scale value
- > 600 bar: Full scale value

#### Operating temperature range

Medium: max. 60 °C

Ambient: -20/+60 °C

#### Temperature performance

Indication error when the temperature of the measuring system deviates from the normal temperature of 20 °C:

at rising temperature approx.  $\pm 0.4$  %/10 K

falling temperature approx.  $\pm 0.4$  %/10 K

of full scale value

#### Degree of protection

IP 54 (EN 60529)

### standard version

**Connection**

Brass, bottom back

**Measuring element**

Bourdon tube

≤ 60 bar: "C" type tube, Copper alloy

> 60 bar: helical tube, stainless steel 316 Ti/316 L

**movement**

Brass

**Dial**

Aluminium, white

Scaling: black

**Pointer**

Aluminium, black

**Housing**

Stainless steel 304, with blow-out

**bayonet bezel**

Stainless steel 304

**window**

Instrument glass

**Options**

- back flange
- Panel mounting bezel
- 3-hole fixing, panel mounting bezel
- laminated safety glass window
- throttle screw
- Reference pointer
- Electrical contacts
- special scales
- other process connections

**Technical Drawings**

**bottom back connection, panel mounting bezel with clamp fixing**



**Dimensions (mm)**

| NG  | b3 | Øc | c1 | c2 | d5  | d6  | e    | G   | g1 | s4  | SW |
|-----|----|----|----|----|-----|-----|------|-----|----|-----|----|
| 100 | 49 | 6  | 3  | 20 | 107 | 101 | 26,5 | G½B | 81 | 4   | 22 |
| 160 | 52 | 6  | 3  | 20 | 167 | 161 | 26,5 | G½B | 84 | 4,5 | 22 |
| 250 | -  | 6  | 3  | 20 | -   | -   | -    | G½B | -  | -   | 22 |

Versions

| Range    | Mounting type                              | Type           |                                                                                     | Part number |
|----------|--------------------------------------------|----------------|-------------------------------------------------------------------------------------|-------------|
| 0/10 bar | Panel mounting bezel,<br>with clamp fixing | RF160I<br>D451 |  | 85365451    |

-  in-stock items
-  Non-stock items