



## Bourdon tube pressure gauges for industrial applications RF100I IK1

Part no. 87712401

Bourdon tube pressure gauge for industrial applications with electrical contact type D4

### benefits

- robust stainless steel housing
- excellent readability
- Up to four switching contacts
- available with MK, EK, IK

### Application

For gaseous and liquid media which are not highly viscous, do not crystallise and do not attack copper alloys.

### Technical Specifications

#### Type

D4

#### Nominal size

100

#### 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

#### contact types

inductive contact (IK)

#### minimum range

IK Single  
1 bar

#### 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.  $\pm 0.4 \text{ } \%/10 \text{ K}$   
falling temperature approx.  $\pm 0.4 \text{ } \%/10 \text{ K}$   
of full scale value

#### Degree of protection

IP 54 (EN 60529)

### standard version

**Connection**

Brass, bottom  
G $\frac{1}{2}$ B, SW22 (EN 837-1/7.3)

**Electrical connection**

Cable gland M12 x 1.5  
Cable 1 m

**Measuring element**

Bourdon tube  
 $\leq 60$  bar: "C" type tube, Copper alloy  
 $> 60$  bar: helical tube, stainless steel 316 Ti/316 L

**movement**

Brass

### Inductive contact (IK)

**Supply voltage**

DC 5 – 25 V

**Current input**

$\geq 2.1$  mA

**Switching accuracy**

approx. 0.5 % of full scale value

**Options**

- back flange
- 3-hole fixing, panel mounting bezel
- throttle screw
- Junction box
- Connector
- special scales
- other process connections

**Dial**

Aluminium, white  
Scaling: black

**Pointer**

Aluminium, black

**Housing**

Stainless steel 304, with blow-out

**bayonet bezel**

Stainless steel 304

**window**

Plastic (Makrolon), with contact adjustment lock

**Operating temperature range**

-20/+70 °C or corresponding to the respective measuring instruments

**Adjustment range**

5–95 % measuring range of gauge

**Options**

- contact systems with safety integrity level SIL 2

Technical Drawings



Versions

| Range     | Mounting type | Type               | Part number |
|-----------|---------------|--------------------|-------------|
| 0/2.5 bar | direct        | RF100I IK1<br>D401 | 87712401    |

-  in-stock items
-  Non-stock items