



## Bourdon tube pressure gauges for industrial applications RF100I IK1

Part no. 87701401

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

$\leq 600$  bar: Full scale value  
 $> 600$  bar:  $\frac{3}{4}$  x full scale value  
 $\leq 600$  bar: 0.9 x full scale value  
 $> 600$  bar:  $\frac{2}{3}$  x full scale value  
 $\leq 600$  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.  $\pm 0.4$  %/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  
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  
≤ 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

≥ 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 |
|-----------|---------------|--------------------|-------------|
| -1/+0 bar | direct        | RF100I IK1<br>D401 | 87701401    |

-  in-stock items
-  Non-stock items