# Bourdon tube pressure gauges for industrial applications RF100I IK2

## Part no. 87773401

**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: ¾ x full scale value
≤ 600 bar: 0.9 x full scale value
> 600 bar: ⅔ 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 dual
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. ± 0.4 %/10 K
falling temperature approx. ± 0.4 %/10 K
of full scale value

**Degree of protection**
IP 54 (EN 60529)

## standard version

**Connection**
Brass, bottom
G½B, 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

**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

## Inductive contact (IK)

**Supply voltage**
DC 5 – 25 V

**Current input**
≥ 2.1 mA

**Switching accuracy**
approx. 0.5 % of full scale value

**Operating temperature range**
-20/+70 °C or corresponding to the respective measuring instruments

**Adjustment range**
5–95 % measuring range of gauge

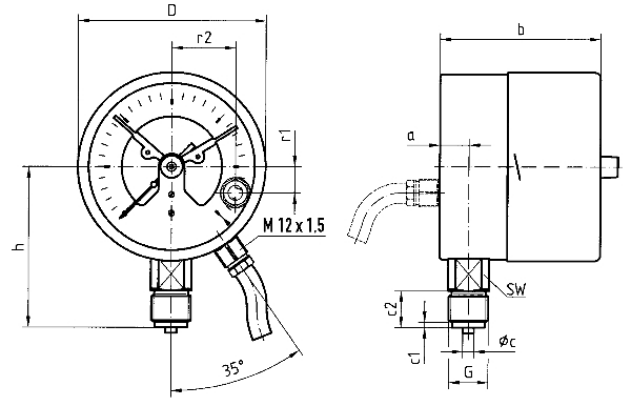
**Options**
- contact systems with safety integrity level SIL 2

## Options

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

## Technical Drawings

**Bottom connection**




**Dimensions (mm)**

| NG | a | b | b1 | ∅C | c1 | c2 | D | G | h | r1 | r2 | SW |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 100 | 15,6 | 87 | 90,5 | 6 | 3 | 20 | 101,5 | G½B | 86 | 14 | 34,5 | 22 |
| 160 | 17,5 | 97 | 100 | 6 | 3 | 20 | 161,5 | G½B | 116 | 14 | 34,5 | 22 |

## Versions

| Range | Mounting type | Type | | Part number |
|---|---|---|---|---|
| 0/400 bar | direct | RF100I IK2 D401 | ● | 87773401 |

● in-stock items

○ Non-stock items