Bourdon tube pressure gauges for industrial applications RF100I IK1

Part no. 87714401

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 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. ± 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

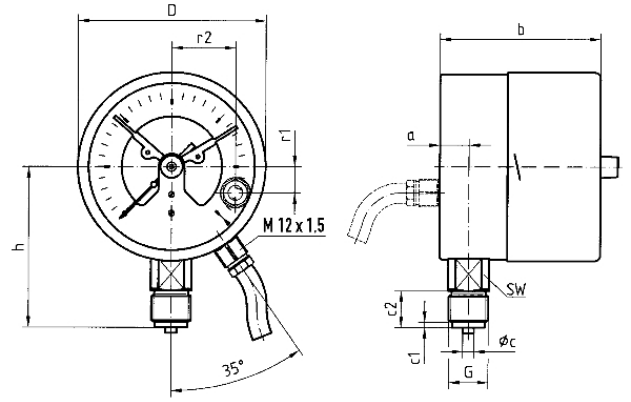
Options
- contact systems with safety integrity level SIL 2

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
0/6 bar	direct	RF100I IK1 D401	●	87714401

● in-stock items

○ Non-stock items