



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

Degree of protection

IP 54 (EN 60529)

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

Dial

Aluminium, white
Scaling: black

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

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

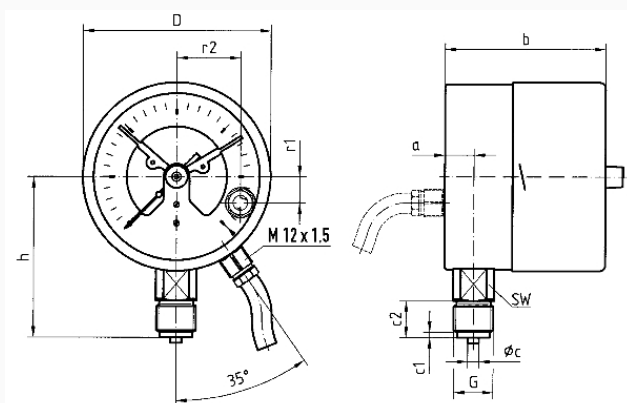
5–95 % measuring range of gauge

Options

- contact systems with safety integrity level SIL 2

Technical Drawings

Bottom connection



Dimensions (mm)

NG	a	b	b1	ØC	c1	c2	D	G	h	r1	r2	SW
100	15,6	87	90,5	6	3	20	101,5	G $\frac{1}{2}$ B	86	14	34,5	22
160	17,5	97	100	6	3	20	161,5	G $\frac{1}{2}$ B	116	14	34,5	22

Range	Mounting type	Type		Part number
-1/+0 bar	direct	RF100I IK1 D401		87701401
-1/+0.6 bar	direct	RF100I IK1 D401		87702401
-1/+1.5 bar	direct	RF100I IK1 D401		87703401
-1/+3 bar	direct	RF100I IK1 D401		87704401
-1/+5 bar	direct	RF100I IK1 D401		87705401
-1/+9 bar	direct	RF100I IK1 D401		87706401
-1/+15 bar	direct	RF100I IK1 D401		87707401
0/0.6 bar	direct	RF100I IK1 D401		87709401
0/1 bar	direct	RF100I IK1 D401		87710401
0/1.6 bar	direct	RF100I IK1 D401		87711401
0/2.5 bar	direct	RF100I IK1 D401		87712401
0/4 bar	direct	RF100I IK1 D401		87713401
0/6 bar	direct	RF100I IK1 D401		87714401
0/10 bar	direct	RF100I IK1 D401		87715401
0/16 bar	direct	RF100I IK1 D401		87716401
0/25 bar	direct	RF100I IK1 D401		87717401
0/40 bar	direct	RF100I IK1 D401		87718401
0/60 bar	direct	RF100I IK1 D401		87719401
0/100 bar	direct	RF100I IK1 D401		87720401
0/160 bar	direct	RF100I IK1 D401		87721401