



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
Magnetic spring contact (MK)

minimum range
MK dual
1.6 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)

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

Magnetic spring contact (MK)**Supply voltage**

max. AC/DC 250 V

Making current and breaking current

max. 1 A

Continuous current

max. 0.6 A

Switch rating

max. 50 VA, max. 30 W

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

Contact

Ag80 Ni20 Au 10 µm

Switching accuracy

approx. 2–5 % of full scale value

Operating temperature range

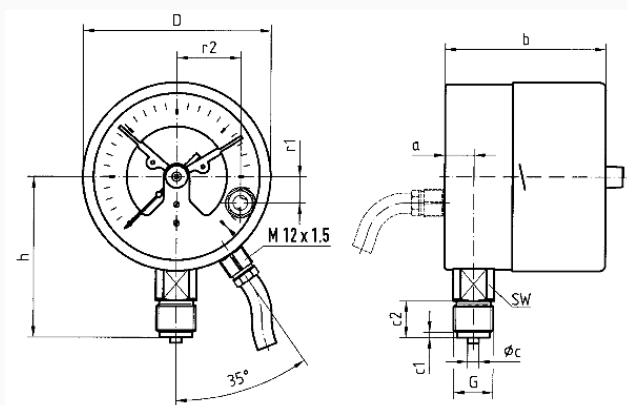
-20/+70 °C or corresponding to the respective measuring instruments

Adjustment range

5–95 % measuring range of gauge

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	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
-1/+0.6 bar	direct	RF100I MK2 D401	●	87652401
-1/+1.5 bar	direct	RF100I MK2 D401	●	87653401
-1/+3 bar	direct	RF100I MK2 D401	●	87654401
-1/+5 bar	direct	RF100I MK2 D401	●	87655401
-1/+9 bar	direct	RF100I MK2 D401	●	87656401
-1/+15 bar	direct	RF100I MK2 D401	●	87657401
0/1.6 bar	direct	RF100I MK2 D401	●	87661401
0/2.5 bar	direct	RF100I MK2 D401	●	87662401
0/4 bar	direct	RF100I MK2 D401	●	87663401
0/6 bar	direct	RF100I MK2 D401	●	87664401
0/10 bar	direct	RF100I MK2 D401	●	87665401
0/16 bar	direct	RF100I MK2 D401	●	87666401
0/25 bar	direct	RF100I MK2 D401	●	87667401
0/40 bar	direct	RF100I MK2 D401	●	87668401
0/60 bar	direct	RF100I MK2 D401	●	87669401
0/100 bar	direct	RF100I MK2 D401	●	87670401
0/160 bar	direct	RF100I MK2 D401	●	87671401
0/250 bar	direct	RF100I MK2 D401	●	87672401
0/400 bar	direct	RF100I MK2 D401	●	87673401
0/600 bar	direct	RF100I MK2 D401	●	87674401

D401