Bourdon tube pressure gauge with electrical contacts for chemical applications type D4

benefits

- measuring system fully welded to housing
- robust mechatronical pressure gauge
- Up to four switching contacts
- tightness-tested with helium
- GOSSTANDART-certified

Application

For corrosive gaseous and liquid media which are not highly viscous and do not crystallise; suitable for corrosive environments.

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
Magnetic spring contact (MK)

minimum range
MK Single
1.6 bar

Operating temperature range
Medium: max. 150 °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
stainless steel 316 Ti/316 L, bottom
G½B, SW22 (EN 837-1/7.3)

Electrical connection
Junction box

Measuring element
Bourdon tube, stainless steel 316 Ti/316 L
≤ 60 bar: "C" type tube
> 60 bar: helical tube

movement
Stainless steel

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

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

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

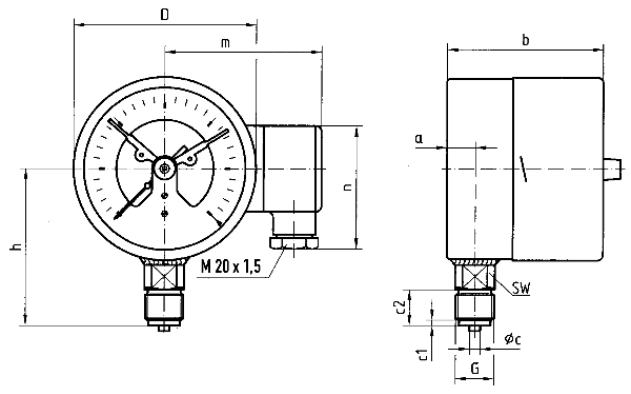
Adjustment range
5–95 % measuring range of gauge

Options

- Liquid filling (silicone oil)
- back flange
- 3-hole fixing, panel mounting bezel
- throttle screw
- Connector
- special scales
- other process connections

Technical Drawings

Bottom connection



Dimensions (mm)

NG	a	b	b1	∅c	c1	c2	D	G	h	m	n	SW
100	15,6	87	90,5	6	3	20	101,5	G½B	86	92	72	22
160	17,5	97	100	6	3	20	161,5	G½B	116	122	72	22

Versions

Range	Mounting type	Type		Part number
-1/+0.6 bar	direct	RF100Ch MK1 D402		87602402
-1/+1.5 bar	direct	RF100Ch MK1 D402		87603402
-1/+3 bar	direct	RF100Ch MK1 D402		87604402
-1/+5 bar	direct	RF100Ch MK1 D402		87605402
-1/+9 bar	direct	RF100Ch MK1 D402		87606402
-1/+15 bar	direct	RF100Ch MK1 D402		87607402
0/1.6 bar	direct	RF100Ch MK1 D402		87611402
0/2.5 bar	direct	RF100Ch MK1 D402		87612402
0/4 bar	direct	RF100Ch MK1 D402		87613402
0/6 bar	direct	RF100Ch MK1 D402		87614402
0/10 bar	direct	RF100Ch MK1 D402		87615402
0/16 bar	direct	RF100Ch MK1 D402		87616402
0/25 bar	direct	RF100Ch MK1 D402		87617402
0/40 bar	direct	RF100Ch MK1 D402		87618402
0/60 bar	direct	RF100Ch MK1 D402		87619402
0/100 bar	direct	RF100Ch MK1 D402		87620402
0/160 bar	direct	RF100Ch MK1 D402		87621402
0/250 bar	direct	RF100Ch MK1 D402		87622402
0/400 bar	direct	RF100Ch MK1 D402		87623402
0/600 bar	direct	RF100Ch MK1 D402		87624402

● in-stock items

○ Non-stock items