



Bourdon tube pressure gauges for chemical applications RF100Ch IK1

Part no. 87709402

Bourdon tube pressure gauges for chemical applications with electrical contact type D4

benefits

- measuring system fully welded to housing
- robust mechatronic 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
inductive contact (IK)

minimum range
IK Single
1 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

Supply voltage

DC 5 – 25 V

Options

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

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

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	G1½B	86	92	72	22
160	17,5	97	100	6	3	20	161,5	G1½B	116	122	72	22

Versions

Range	Mounting type	Type		Part number
0/0.6 bar	direct	RF100Ch IK1 D402	<input type="radio"/>	87709402

- in-stock items
- Non-stock items