



Bourdon tube pressure gauge with electrical contacts type D3

benefits

- up to two contacts possible
- wetted parts and movement made of stainless steel
- available with MK, EK, IK
- Safety housing S2 as per EN 837-1 (blow-out)

Application

For corrosive gaseous and liquid media which are not highly viscous and do not crystallise. For measuring in areas with limited space. Especially suitable for monitoring minimum pressure in gas cylinders together with AFRISO alarm unit for low gas level.

Technical Specifications

Type
D3

Nominal size
63

accuracy class (EN 837-1/6)
1.6

ranges (EN 837-1/5)
see ordering table

application area
static load: $\frac{3}{4}$ x full scale value
dynamic load: $\frac{2}{3}$ x full scale value
short-term: 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. $\pm 0.4 \text{ } \%/10 \text{ K}$
falling temperature approx. $\pm 0.4 \text{ } \%/10 \text{ K}$
of full scale value

Degree of protection
IP 42 (EN 60529)

Connection
stainless steel 316 Ti/316 L, bottom
G $\frac{1}{4}$ B, SW14 (EN 837-1/7.3)

Electrical connection
Cable gland M12 x 1.5
Cable 1 m

Measuring element
Bourdon tube, stainless steel 316 Ti/316 L
 $\leq 60 \text{ bar}$: "C" type tube
> 60 bar: helical tube

movement
Stainless steel

Dial

Aluminium, white
Scaling: black

Pointer

Aluminium, black

Housing

Stainless steel 304, safety housing S2 as per EN 837-1, with rear blow-out

push on 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

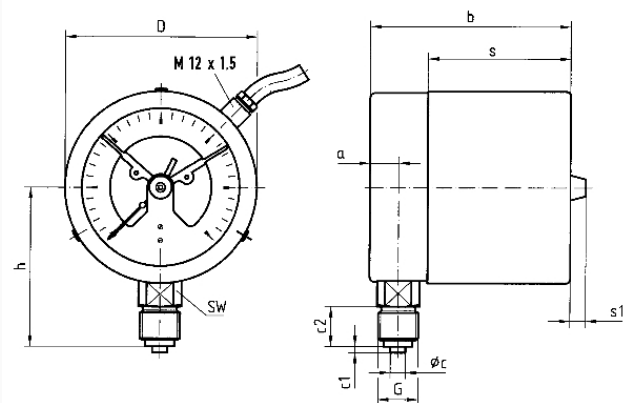
5–95 % measuring range of gauge

Options

- wetted parts oil-free and grease-free ($\leq 0/400$ bar)
- Ultra-pure gas version
- back flange
- throttle screw
- special scales
- other process connections

Technical Drawings

Bottom connection



Dimensions (mm)

NG	a	b	Øc	c1	c2	D	G	h	s	s1	SW
63	9,5	66	5	2	13	64	G $\frac{1}{4}$ B	46	47,5	8	14

Versions

Range	Mounting type	Type		Part number
-1/+0.6 bar	direct	RF63 MK1 D302	●	87402302
-1/+1.5 bar	direct	RF63 MK1 D302	●	87403302
-1/+3 bar	direct	RF63 MK1 D302	●	87404302
-1/+5 bar	direct	RF63 MK1 D302	●	87405302
-1/+9 bar	direct	RF63 MK1 D302	●	87406302
-1/+15 bar	direct	RF63 MK1 D302	●	87407302
0/1.6 bar	direct	RF63 MK1 D302	●	87411302
0/2.5 bar	direct	RF63 MK1 D302	●	87412302
0/4 bar	direct	RF63 MK1 D302	●	87413302
0/6 bar	direct	RF63 MK1 D302	●	87414302
0/10 bar	direct	RF63 MK1 D302	●	87415302
0/16 bar	direct	RF63 MK1 D302	●	87416302
0/25 bar	direct	RF63 MK1 D302	●	87417302
0/40 bar	direct	RF63 MK1 D302	●	87418302
0/60 bar	direct	RF63 MK1 D302	●	87419302
0/100 bar	direct	RF63 MK1 D302	●	87420302
0/160 bar	direct	RF63 MK1 D302	●	87421302
0/250 bar	direct	RF63 MK1 D302	●	87422302
0/400 bar	direct	RF63 MK1 D302	●	87423302
0/600 bar	direct	RF63 MK1 D302	●	87424302

● In-stock items