

pressure-sensor type DS01



description:

High quality pressure sensor with internal ceramic membrane in a compact design. High corrosion resistance and long-term stability. As 2-wire (4-20mA) and 3-wire (0-10) available. Convinced by vacuum resistance, good reproducibility and hysteresis and low temperature impact.

product features:

- suitable for absolute pressure, gauge pressure and vacuum in gases, vapors, liquids and dusts
- suitable for mechanical engineering, hydraulics and pneumatics
- long-term stability, vacuum resistance, good reproducibility and hysteresis
- low temperature influence

connection:

G 1/2" B, G 1/4" B, G 1/2" B IG

temperature:

-40°C up to +100°C

pressure:

0 – 600,0 bar relative – depending on design

design:

body material:

seals:

membrane:

process connection:

supply voltage:

current consumption:

characteristic deviation:

long-term drift:

temperature deviation:

plug:

process pressure range:

protection:

option:

temperature:

pressure-sensor with internal ceramic membrane

Cr-Ni-steel

FPM, EPDM

ceramic Al₂O₃ 96%

Stainless steel 1.4404/316L or 1.4571/316Ti

10–30V DC on 2-wire 4–20mA 14–30V DC on 3-wire 0–10V

≤ 30mA; on 2-wire 4-20mA ≤ 6mA; on 3-wire 0-10V

≤±0,5% FS

≤±0,15% FS / year not cumulative

measuring range 0-0,25 bar up to 0-2,5 bar ≤±0,5% FS/10 K (Zero/Span)

measuring range 0-4 bar up to 0-600 bar ≤±0,4% FS/10 K (Zero/Span)

EN 175-301-803-A (formerly DIN 43650-A):

body PA Polyamid, contacts tinned, seal NBR

0 – 600 bar relative, for absolute and vacuum pressure on request

Plug type acc. to EN 175-301-803 IP 65 EN/IEC 60529

ATEX II Ex-Schutz (on request)

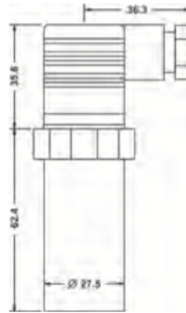
process: -40°C – +100°C

or 125°C (temperature decoupler necessary)

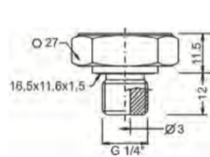
environment: -40°C - +85°C

diameter:

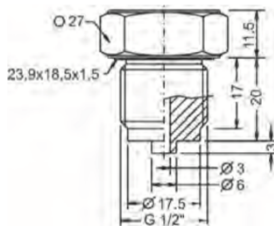
electrical connection
 plug EN 175-301-803-A



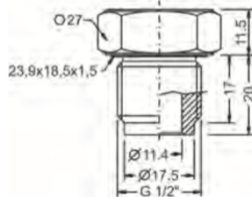
process connection:



G 1/4" B



G 1/2" B



G 1/2" B with internal drill (IB)

article number:

type	range of pressure	seal	electrical output	connection
DS01	00 – 0 – 250mbar	0 – FPM 1 – EPDM	0 – 2-wire (4-20mA) 1 – 3-wire (0-10V)	01 – G 1/4" B 03 – G 1/2" B 03.1 – G 1/2" B IB
	01 – 0 – 400mbar			
	02 – 0 – 600mbar			
	03 – 0 – 1 bar			
	04 – 0 – 1,6 bar			
	05 – 0 – 2,5 bar			
	06 – 0 – 4 bar			
	07 – 0 – 6 bar			
	08 – 0 – 10 bar			
	09 – 0 – 16 bar			
	10 – 0 – 25 bar			
	11 – 0 – 40 bar			
	12 – 0 – 60 bar			
	13 – 0 – 100 bar			
	14 – 0 – 160 bar			
	15 – 0 – 250 bar			
	16 – 0 – 320 bar			
	17 – 0 – 400 bar			
18 – 0 – 600 bar				

example:

DS01030101

pressure sensor with internal ceramic membrane

output: 0 – 10 V

seal: FPM

range of pressure: 0 – 1 bar

connection: G 1/4" B

Image similar, subject change without notice.