Pressure Transmitter

Water- and Waste Water Treatment
Electro Plating

FISCHER
MESS- UND REGELTECHNIK

ME69

Applications

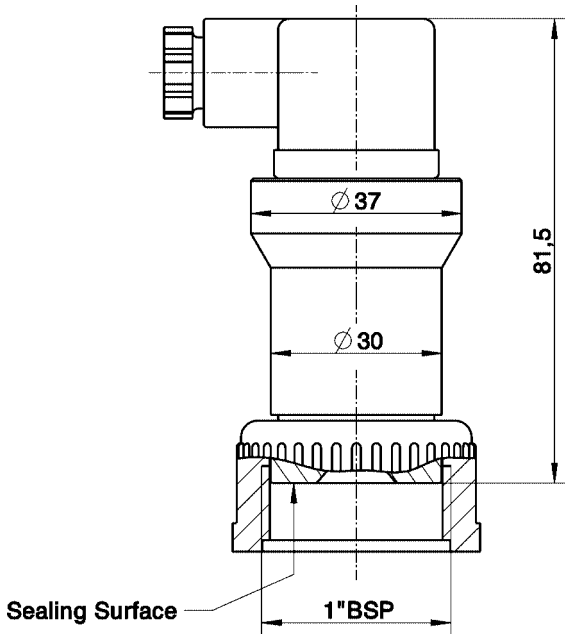
The ME 69 type pressure transducer is designed to detect the process pressure in water treatment plants and electroplating plants.
Because of its “all plastics”design and its corrosion free characteristic feature derived therefrom, the ME 69 is best suitable in applications where transducers with metallic housings or process connections will be destroyed within a few days. Typical applications can be found in sys-tems and plants for treatment of

- potable water
- service water
- process water
- waste water
- electroplating vats

The transmitter consists of a ceramic sensor with connected electronics. Under process pressure the diaphragm of the ceramic sensor is deflected in relation to the pressure supplied. Depending thereof the output signal of the bridge circuit on the back of the ceramic sensor is varying. The value change of the signal is proportional to the change in process pressure. The downstream electronic is amplifying the signal to the standard range of 4 ... 20 mA.The pressure transmitter ME 69 is available in standard ranges from 0... 0,6 bar up to 0...10 bar. The process connection is done as 1 inch nut which fits directly onto standard plastic pipe fittings. All wetted parts are made from ceramic or plastics (PVC). The housing is made from POM and the transmitter is suitable for agressive environments. Gaskets are from PEEK and can withstand even extreme conditions.



Dimensional Drawing



Subject to change without notice!

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Technical Data

Measuring ranges in bar	0-0,6	0-1	0-1,6	0-2,5	0-4	0-6	0-10
Max. pressure in bar	1,5	2	3	5	8	12	20

Linearrity	< 1 % FS
Hysteresis	< 0,5 % FS
Nominal temperature range	0 .. 60 °C
Max. temperature range	0 .. 85 °C
Storage ambient temperature	0 .. 85 °C
Pressure connection	G 1"
Electrical connection	plug connector
Protection class	IP 65 acc. to DIN 40 050
Material wetted parts	plastics: PEEK, gasket: Viton
Material housing	POM, PVC

Electrical data

Power supply	24 V DC (12 - 30 V DC)
Electrical connection	2 - wire connection
Output signal	0 ..20 mA,
Load	600 Ohms
Current limit	ca. 26 mA
Temperature drift of zero	0,4 % / 10 K
Temperature drift of measuring range	0,05 % / 10 K

The transmitter is protected against reverse connection and short circuit

Ordering Code

Pressure Transmitter Typ ME 69 [ ][ ] D 2 [ ] 0 H 9

Ranges

0.....0,6 bar	0 1
0.....1 bar	0 2
0.....1,6 bar	0 3
0.....2,5 bar	0 4
0.....4 bar	0 5
0.... 6 bar	0 6
0....10 bar	0 7

Pressure connection
DN 20 - G 1"

Output

0 - 20 mA, 3 - wire	A
4 - 20 mA, 2 - wire	B
0 - 10 V DC, 3 - wire	C

Electrical connection
Plug connector acc. to DIN 43 650

Power supply
24 V DC +/- 10 %

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