

ME69 || Pressure Transmitter for Water and Waste Water Treatment

Applications

The ME69 type pressure transmitter is designed to detect process pressure in water treatment and electroplating plants. Because of its all plastics design and its corrosion free characteristic feature derived therefrom, the ME69 is best suitable in electroplating systems and plants for treatment of potable, service, process or waste water.

Main Features

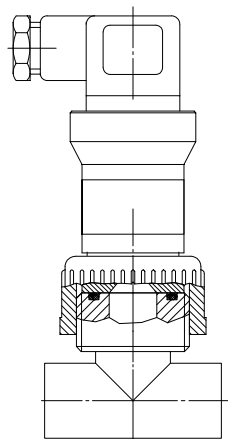
- rugged design
- high accuracy
- resistant against aggressive media

Principles of Operation

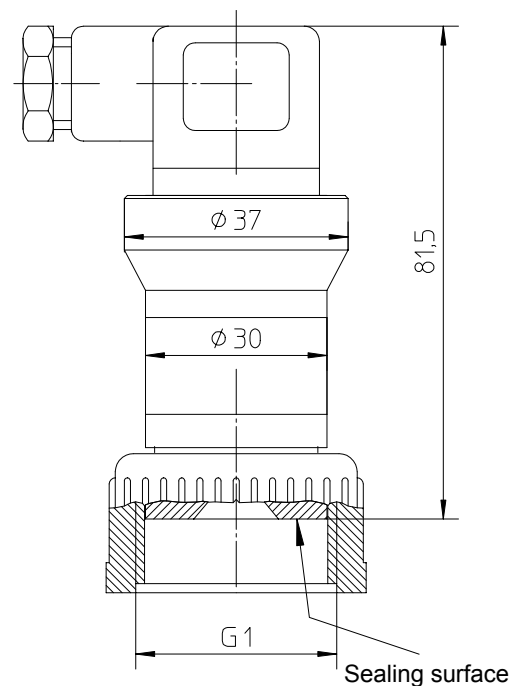
The transmitter consists of a ceramic sensor with connected electronics. Under process pressure the ceramic sensor's diaphragm is deflected in relation to the pressure supplied.

Depending thereof output signal of bridge circuit on the back of ceramic sensor is varying. Value change of signal is proportional to change in process pressure. The downstream electronic is amplifying that signal to standard range.

Mounting Example



Dimensions (all units in mm unless stated otherwise)



Specifications

Measuring ranges in bar	0-1.6	0-2.5	0-4	0-6	0-10
Max. pressure in bar	3.2	5	8	12	20
Linearity	< 1% FS				
Hysteresis	< 0.5% FS				
Perm. ambient temperature	0...60°C				
Perm. operating temperature	0...60°C				
Pressure connection	G1" flange union nut of plastics				
Electrical connection	plug connector acc. to DIN EN 175301-803-A				
Protection class	IP65 acc. to EN 60 529				
Material: wetted parts	PP plastics - ceramic 96% Al ₂ O ₃ parylene coated - gasket: Viton®B				
Material: housing	PP plastics				

Electrical Data

Nominal voltage	24 V DC	
Operating voltage	6...30 V DC	12...30 V DC
Electrical connection	2-wire	3-wire
Output signal	4...20 mA	0...10 V DC
Load	(U _B -6V)/ 0.02 A	U _B < 14 V 10 k Ω U _B > 14 V 2 k Ω
Current resp. voltage limiting	approx. 26 mA	approx. 12 V DC
Temperature drift (zero)	< 0.4 % / 10K	
Temperature drift (measuring range)	< 0.05% / 10K	

Transmitter is short circuit and voltage reversal protected.

Ordering Code

Pressure Transmitter		ME69									
				M	A	9		H	9		

Measuring range					
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		

Accuracy	
Linearity gauge pressure 1.0	> M

Pressure connection	
Plastic screw connection DN20 - G 1B.....	> A 9

Electrical output	
4 - 20 mA 2-wire	> B
0 - 10 V DC 3-wire (STANDARD)	> C

Electrical connection	
4 pin plug connection acc. to DIN EN 175301-803.....	> H

Power supply	
24 V DC ±10 %	> 9