

**Type ME 61**

**Application**

Pressure transmitter for pressure and partial vacuum, with directly measuring ceramic diaphragm.

Measuring ranges from 0...1,0 bar to 0...400 bar.

This series is suitable for multiple applications in

- Process engineering
- Process technology
- Environmental technology

**Main features**

- robust design
- high accuracy
- high overload protection
- high vibration-resistance
- minimum hysteresis



**Dimensioned drawing**

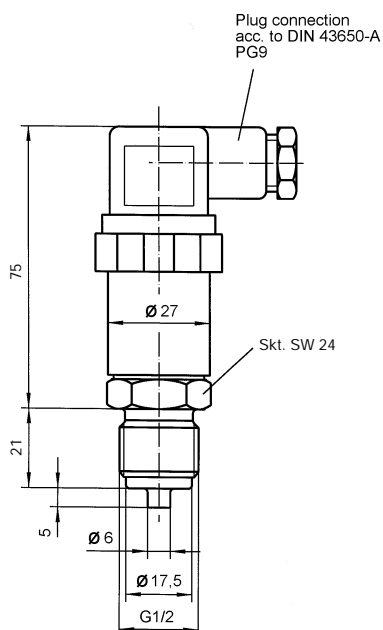
**Construction and functioning**

The measured pressure is transmitted directly to a ceramic diaphragm deforming under the admission of pressure.

The mechanical deformation is converted to an electrical signal by means of a DMS-bridge located at the rear side.

An electronic system is integrated in the set-up of the appliance, converting the DMS-signals to electric standard signals:

- 0...20 mA
- 4...20 mA
- 0...10 V DC.

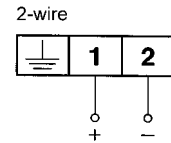


**Technical Data**

Measuring ranges in bar	0-1	0-1,6	0-2,5	0-4	0-6	0-10	0-16	0-25	0-40	0-60	0-100	0-160	0-250	0-400
Max. pressure in bar	2	3,2	5	8	12	20	32	50	80	120	150	240	375	600

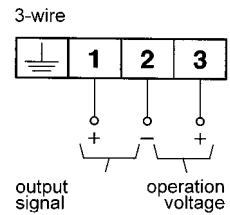
Linearity \_\_\_\_\_ < 1% of measuring range  
 Hysteresis \_\_\_\_\_ < 0,5% of measuring range  
 Max. amb. temperature \_\_\_\_\_ 0° to 60°C  
 Max. medium temperature \_\_\_\_\_ 0° to 85°C  
 Pressure connection \_\_\_\_\_ connection G1/2 A acc. to DIN 16 288  
 Electrical connection \_\_\_\_\_ plug acc. to DIN 43 650  
 Enclosure protection \_\_\_\_\_ IP 65 acc. to DIN 40 050  
 Material contacted by medium \_\_\_\_\_ Cr-Ni-Cr 1.4305, gasket: Viton  
 Body material \_\_\_\_\_ Cr-Ni-Cr 1.4305

**Connection Scheme**



**Electrical data**

Power supply _____	24 V DC ± 10%	24 V DC ± 10%	24 V DC ± 10%
Output signal _____	0-20 mA	4-20 mA	0-10 VDC
Electrical connection _____	3-wire connection	2-wire connection	3-wire connection
Load _____	500 Ohm	450 Ohm	> 2 kOhm
Current-/voltage limiting _____	approx. 26 mA	approx. 26 mA	approx. 13 VDC
Temperature drift of zero _____	0,4% FS / 10°K	0,4% FS / 10°K	0,4% FS / 10°K
Temp. drift measuring range _____	0,05% FS / 10°K	0,05% FS / 10°K	0,05% FS / 10°K



The transmitter is protected against reverse connection and short circuit.

**Order Nos.**

**Pressure Transmitter**

**Type ME 61**

0 8 7 H 9

**Ranges:**

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
0... 16 bar	0	8
0... 25 bar	0	9
0... 40 bar	1	0
-1... 0 bar	3	1
-1... 0,6 bar	3	2
-1... 1,5 bar	3	3
-1... 3 bar	3	4
-1... 5 bar	3	5
-1... 15 bar	3	7

**Pressure connection**

Connection BSP 1/2 male

**Output signal**

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

**Electrical connection**

Right angle plug acc. to DIN 43 650-A

**Power supply**

24 V DC ± 10%