

4...20 mA Pressure Transmitter for industrial applications. As a pressure sensor the transmitter uses a membrane with a poly-silicon strain gauge. The small dimension of the element leads to very good results in pulsing measuring media's. Due to the elasticity of the Silicon the instrument has a very good repetition accuracy and Hysteresis and a high overload capability of 4 times the Measurement range (maximum 600 bar).

Measuring Ranges : from 0...1 bar up to 0...400 bar
see backpage

Overload Ratings : 4 x Measurement Range
max. Pressure 600 bar (static overload)
Error due to overload $\leq 0,1 \% \text{ FSO}$

Accuracy : Non-Linearity and Hysteresis : $\leq \pm 0,6 \% \text{ FSO}$
Max. unadjusted error (Offset / Span) $\leq \pm 0,4 \% \text{ FSO}$
Power supply rejection : $\leq 0,016 \% \text{ FSO} / \text{V}$
Thermal effects on offset :
Typ. 0,2 %FSO / 10K • Max. 0,5 %FSO / 10K
Thermal effects on span :
Typ. 0,2 %FSO / 10K • Max. 0,4 %FSO / 10K
Error due to fixing : $< 0,1 \% \text{ FSO}$

Process - connection : G $\frac{1}{2}$ "A or M20 x 1,5 male thread
according to DIN 16 288 Type B
Gasket Type B acc. to DIN 16 258
Material membrane : 1.4435 (X2CrNiMo 1812)
Material thread : 1.4301 (X5 CrNi 189)
Membrane filling : Silicon-Oil

Media: Gas or liquids • Temperature maximum ratings : -25...+70 °C

Output : Standard Signal 4...20 mA

Load : 600 Ω bei 24 V supply voltage

Response time : ca. 2 ms without mech. Damping
ca. 5 ms with mech. Damping

Supply : 12...30 V/DC

Case: Dimensions see backpage
Protection class IP 65
Case material : Stainless steel 1.4301

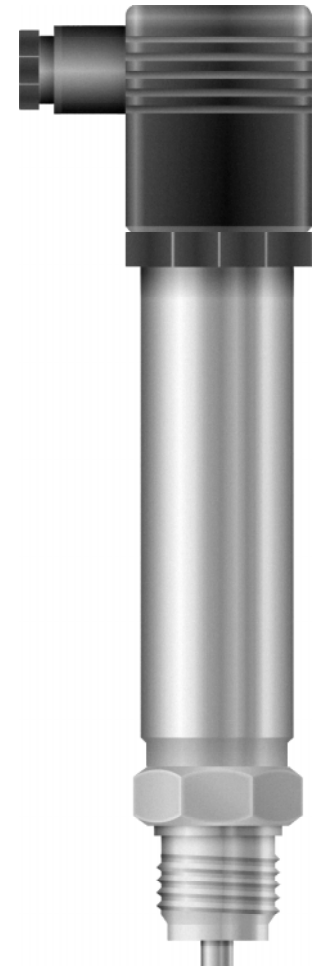
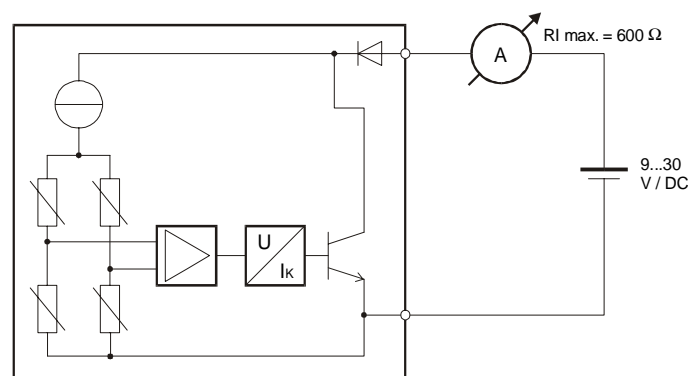


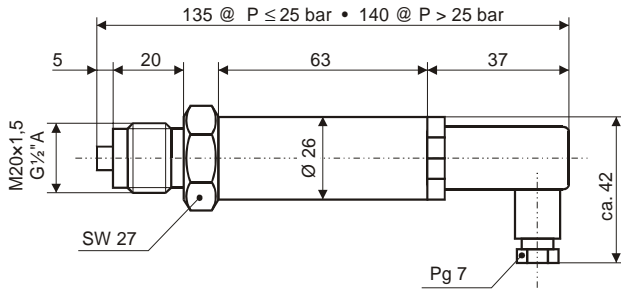
Illustration : Type with Manometer Thread

Schematic diagram :

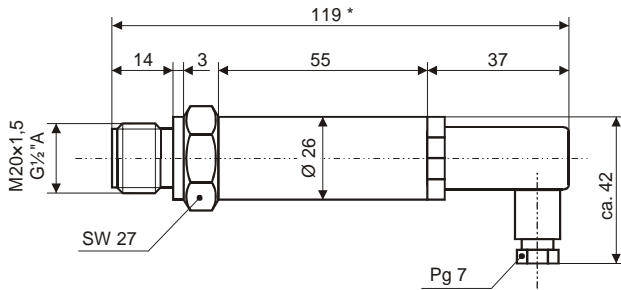


Typical Applications : Industry, plant construction

TYP DMI 400

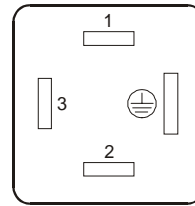


TYP DMF 400



* 123 bei P ≥ 40 bar oder Ausführung mit mechanische Dämpfung
 * 123 at P ≥ 40 bar or types with mechanical damping

Elektrischer Anschluß



Zweileitertechnik :
 (Two-wire technique) :

- 1: Ausgang / Output (+)
- 2: Ausgang / Output (-)

Dreileitertechnik :
 (Three-wire technique) :

- 1 : Ausgang / Output (+)
- 2 : Ausgang und Speisung / Output and Supply (-)
- 3: Speisung / Supply (+)

Standard Ranges			
Ordering - Code		F G	F G
0 ... 1,0	bar	2 0	0 ... 25 bar 2 7
0 ... 1,6	bar	2 1	0 ... 40 bar 2 8
0 ... 2,5	bar	2 2	0 ... 60 bar 2 9
0 ... 4	bar	2 3	0 ... 100 bar 3 0
Following ranges can be delivered with an additional Damping device :			0 ... 160 bar 3 1
			0 ... 250 bar 3 2
			0 ... 320 bar 3 3
			0 ... 400 bar 3 4
			Special range 9 9
		Define special ranges in clear text - see bottom	
0 ... 6	bar	2 4	
0 ... 10	bar	2 5	
0 ... 16	bar	2 6	

Execution	
Ordering - Code	E
with manomter thread (DMI 400)	1
with flush diaphragm (DMF 400)	0

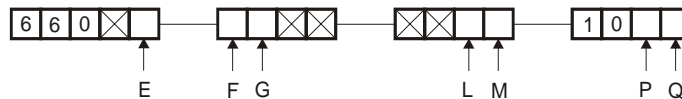
Output		
Ordering - Code	L	M
2 - wire connection / 4 ... 20 mA	0	0
3 - wire connection / 0 ... 10 V	1	0

Process connection		
Ordercode	P	Q
M 20 x 1,5	0	8
M 20 x 1,5 with damping	0	9
G 1/2 " A	0	0
G 1/2 " A with damping	0	1

Ordering key :

For ordering please fill out all empty digits of the ordering key.

The codes for the ordering key you will find in the charts above.



Please define in clear text :

Special Range (Minimum Span = 1 bar)

from up to Unit : bar Pascal PSI other :

Speciality :