Pressure Transmitter 981

for low pressures of various media

Application
Analogue pressure transmitter monitoring overpressure, vacuum or differential pressure of liquid and gaseous ï also aggressive ï media.
The pressure measurement is carried out in difference to the atmospheric pressure (relative pressure).

Temperature range
Ambient temperature from ï 20°C bis +85°C.
Temperature of media up to 85° C depending on material of pressure connection and diaphragm.

Diaphragm material
Depending on media: NBR, Silicone, FKM (Viton®), EPDM.
Others upon request.

Pressure range
Customer specific range:

0 é 150 mbar	981.1
-100 é 0 mbar	981.2

Maximum operating pressure

0 é 500 mbar	981.1
-1000 é 400 mbar	981.2

Linearity error

Ò±1%	981.1
Ò±2%	981.2

Response time
500 ms

Weight
Approx. 100 g

Output signal
0 é 10 VDC; 3-wire
4 é 20 mA; 2-wire

Supply voltage

10 é 30 VDC	4 é 20 mA
18 é 30 VDC	0 é 10 V

Load

Max. 500 q at 24 VDC	4 é 20 mA
Min. 10 kq	0 é 10 V

Current draw
Ò21 mA

Electrical connection
AMP connection M12 4-pole

Protection class
IP54 according to EN 60529

CE Conformance
RoHS Directive 2011/65/EU
EMC Directive 2014/30/EU

Mounting position
Mounting in any position

Accessories
Various mounting brackets

Pressure connection

Tube connection			Threaded connection			
5.0 mm	6.5 mm	10.0 mm	M10 x1	G1/8	G1/4	G1/2
PA	PA, PPS	PA, PPS	PA, PVDF, MS, V_2A	PA, PVDF, MS, V_2A	MS, V_2A	MS

PA = polyamide, PVDF = polyvinyldifluoride, PPS = polyphenylensulfide, MS = brass, V_2A = stainless steel

Upon request pressure connections of other sizes, other plastics or brass nickel-plated are available.

Viton® is a registered trademark of DuPont Dow Elastomers. Accuracy specifications according to EN 60770. Reference temperature: 23 °C

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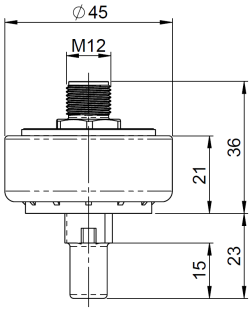
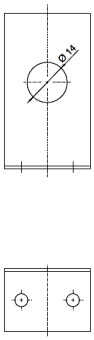
981 with tube connection



Mounting brackets

6403



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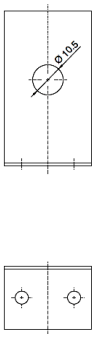

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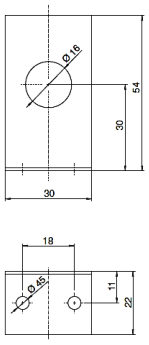
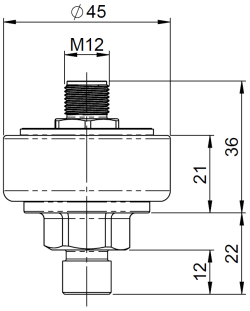
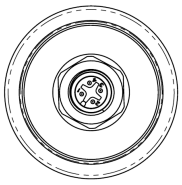


981 with threaded connection





Connection assignments

Circular connectors M12, 4-pole	

3-wire

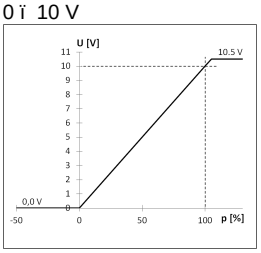
2	Output signal (0é 10 V)
3	Ground (GND)
4	Not used
1	Supply voltage (18...30 VDC)

2-wire

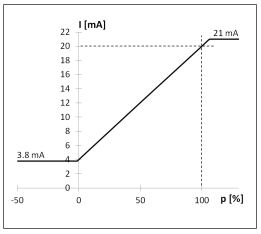
2	Not used
3	Output signal (4é 20 mA)
4	Not used
1	Supply voltage (18...30 VDC)

Analog output signal

0 ï 10 V



4 ï 20 mA



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