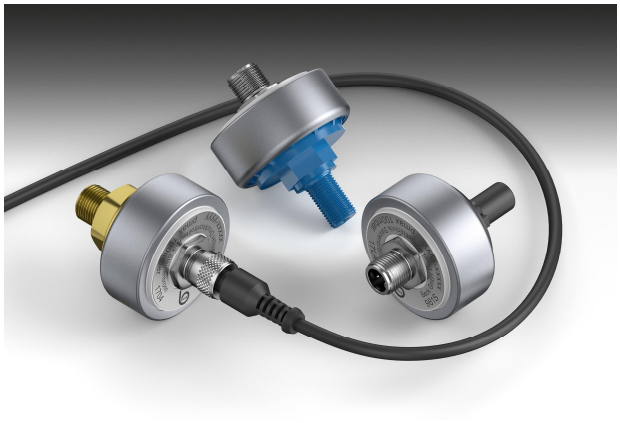
Pressure Transmitter 981

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 é 0 mbar	981.2

A customised range of 100 mbar can be factory-set between -100 mbar é +150 mbar

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

Ca. 100 gr

Output signal

4 - 20 mA	2-wire
0 - 10 VDC	3-wire

Supply voltage

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

Load

Max. 500 Ý at 24 VDC	4 é 20 mA
Min. 10 kÝ	0 é 10 V

Current draw

Ò21 mA

Electrical connection

AMP connection M12 4-pole

Protection class

IP54 according to EN 60529

Conformity

RoHS Directive; EMC Directive

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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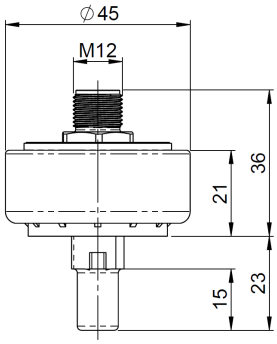
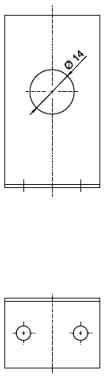
981 with tube connection



Mounting brackets

6403



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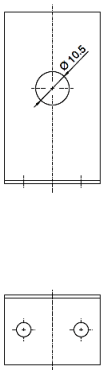

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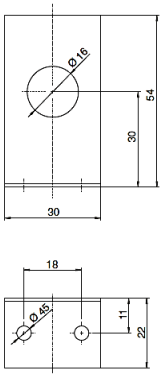
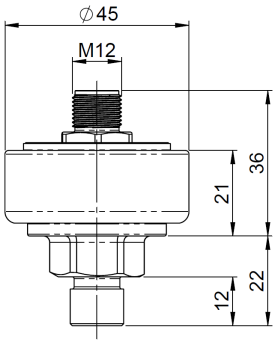
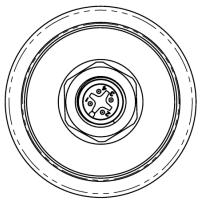


981 with threaded connection





Connection assignments

Circular connectors M12, 4-pole	

3-wire

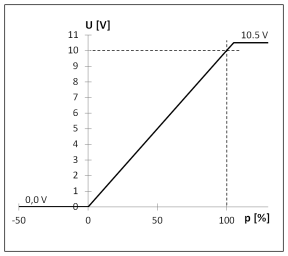
2	Output signal (0é 10 V)
3	Ground (GND)
4	Not used
1	Supply voltage (18...30 VDC)

2-wire

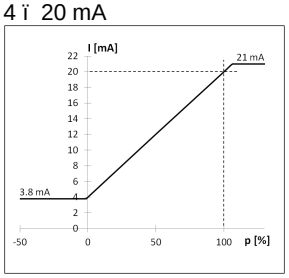
2	Not used
3	Output signal (4é 20 mA)
4	Not used
1	Supply voltage (18...30 VDC)

Analog output signal

0 ï 10 V



4 ï 20 mA



Viton® is a registered trademark of DuPont Dow Elastomers.

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