



**Transmitter for measuring differential pressure in liquids and gases. The method of measurement using a ceramic membrane gives a high level of accuracy and stability over a long period.**

- Several measuring ranges up to 2500 kPa (25 bar)
- Can withstand overpressure of up to 6 times the measuring range (depending on model)
- Accuracy <1.25% of measuring range
- Output signal 0...10 V DC or 4...20 mA
- Highly durable in most environments
- Excellent long-term stability and low temperature dependency

## Funzione

The transmitter consists of a sensor housing of stainless steel and a ceramic membrane. Resistors in thick film technology are applied to the membrane. As pressure affects the membrane, it results in a change of resistance depending on the bending of the membrane, and this is then converted into a proportional output signal by means of the built-in electronics.

The construction, incorporating only one moving part and a direct signal from the membrane, offers a high level of accuracy and a short response time. The properties of the membrane also ensure good stability is maintained over time, as well as a low temperature dependency.

## Models

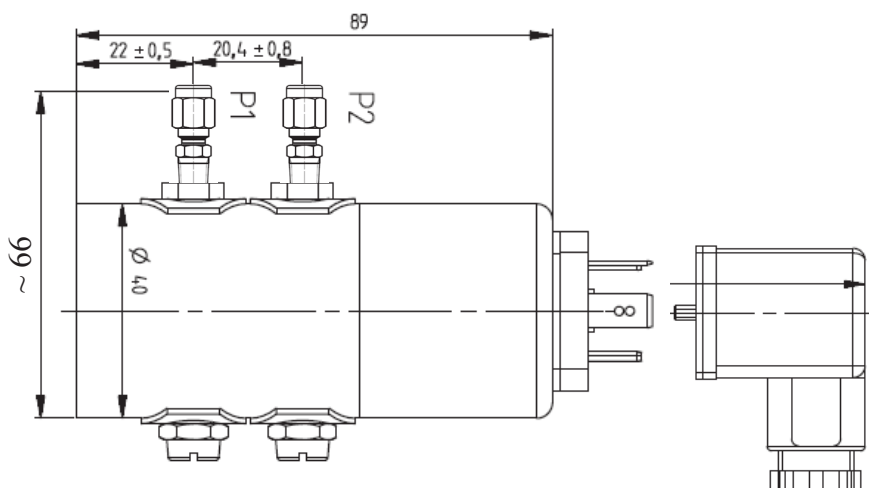
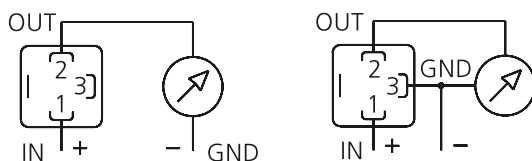
Output signal 0...10 V DC:			Output signal 4...20 mA:			P. max	Accuracy
TPDL10	0...10 kPa	0,1 bar	TPDL10-420	0...10 kPa	0,1 bar	6x	± 1,25% fs
TPDL20	0...20 kPa	0,2 bar	TPDL20-420	0...20 kPa	0,2 bar	6x	± 1,25% fs
TPDL40	0...40 kPa	0,4 bar	TPDL40-420	0...40 kPa	0,4 bar	5x	± 1,25% fs
TPDL100	0...100 kPa	1 bar	TPDL100-420	0...100 kPa	1 bar	5x	± 1,25% fs
TPDL250	0...250 kPa	2,5 bar	TPDL250-420	0...250 kPa	2,5 bar	4,8x	± 1,25% fs
TPDL400	0...400 kPa	4 bar	TPDL400-420	0...400 kPa	4 bar	3x	± 1,75% fs
TPDL600	0...600 kPa	6 bar	TPDL600-420	0...600 kPa	6 bar	2x	± 1,40% fs
TPDL1000	0...1000 MPa	10 bar	TPDL1000-420	0...1000 MPa	10 bar	2x	± 1,40% fs
TPDL1600	0...1600 MPa	16 bar	TPDL1600-420	0...1600 MPa	16 bar	2x	± 1,40% fs
TPDL2500	0...2500 MPa	25 bar	TPDL2500-420	0...2500 MPa	25 bar	2x	± 1,40% fs

## Technical data

Supply voltage	24 VAC / 18...33 VDC $\pm 15\%$ with output signal of 0...10V 11...33 VDC $\pm 15\%$ with output signal of 4...20mA (two wire)
Power consumption	5 mA (0...10 V), 20 mA (4...20 mA)
Output signal	0 ...10 VDC or 4...20 mA
Load impedance	With output signal of 0...10 V: > 10k ohm With output signal of 4...20 mA: < 650 ohm (at 24 V DC)
Max. system pressure	TPDL10...TPDL600: 25 bar TPDL1000...TPDL2500: 50 bar
Temperature dependence, zero point	Max. 0.038 % of measuring range / °C
Temperature dependence, measured value	Max. 0.12 % of measuring range / °C
Ambient temperature	-15...+85 °C
Media temperature	-15...+85 °C
Dynamic response time	< 5 msec
Pressure connections	Pressure connection for 6 mm copper tube
Electrical connection	Connector DIN EN 175301-803-A
Material sensor housing	Stainless steel (Inox 1.4305)
Membrane	Ceramic material
Sealing	EPDM
Weight	about 420 gr
Protection class	IP65
<b>CE</b>	This product conforms with the requirements of European EMC standards CENELEC EN50081-1 and EN50082-1 and carry the CE-mark.

## Dimension and wiring

Connector DIN EN 175301-803-A



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