



# TPGL

Pressure transmitter for liquids and gases

*Pressure transmitter for measurement of liquid and gases.*

- Measuring ranges from 0...100 kPa (1 bar) up to 0...4000 kPa (40 bar)
- High accuracy, 0.3 % of the measuring range
- Extremely low temperature dependency (0.03 % / °C)
- Output signal 0...10V DC or 4...20 mA
- Durable to most pressure media
- Excellent long-term stability
- Ceramic technology



## Function

The pressure transmitter consists of a piezoresistive ceramic measuring cell with a diaphragm, installed in a stainless steel housing. The transmitter is available with current or voltage output.

### MAIN OFFICE BRESSANONE

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## Technical data

<b>Output signal</b>	0...10 V DC (three-wire) or 4...20 mA (two-wire)
<b>Pressure connection</b>	G 1/4"
<b>Dynamic response time</b>	< 2 ms, 1 ms typically
<b>Tolerable overload</b>	≤ 4 bar 3.0 x full scale, > 4 bar 2.5 x full scale
<b>Media temperature</b>	-15...+125 °C
<b>Ambient temperature</b>	-30...+85 °C
<b>Storage temperature</b>	-50...+100 °C
<b>Accuracy, characteristic line</b>	±0.3 % full scale *
<b>Accuracy, resolution</b>	0.1 % full scale *
<b>Accuracy, thermal characteristic</b>	Max. ±0.2 % full scale / 10 K *
<b>Accuracy, long-term stability according to IEC EN 60770-1</b>	Max. ±0.25 % full scale *
<b>Sealing</b>	FPM
<b>Weight</b>	90 g
<b>Cable length</b>	1.5 m
<b>Protection class</b>	IP67

\* Test conditions: 25°C, 45 % RH, 24 V DC supply voltage

## Models

Article	Working range	Output signal	Supply voltage	Power consumption
TPGL1	0...100 kPa (1 bar)	0...10 V DC	12...33 V DC / 24 V AC ±15 %	< 7 mA
TPGL1-420	0...100 kPa (1 bar)	4...20 mA	Max 33 V DC, Min 7+(0,02xRL)	< 23 mA
TPGL2.5	0...250 kPa (2.5 bar)	0...10 V DC	12...33 V DC / 24 V AC ±15 %	< 7 mA
TPGL2.5-450	0...250 kPa (2.5 bar)	4...20 mA	Max 33 V DC, Min 7+(0,02xRL)	< 23 mA
TPGL6	0...600 kPa (6 bar)	0...10 V DC	12...33 V DC / 24 V AC ±15 %	< 7 mA
TPGL6-420	0...600 kPa (6 bar)	4...20 mA	Max 33 V DC, Min 7+(0,02xRL)	< 23 mA
TPGL10	0...1000 kPa (10 bar)	0...10 V DC	12...33 V DC / 24 V AC ±15 %	< 7 mA
TPGL10-420	0...1000 kPa (10 bar)	4...20 mA	Max 33 V DC, Min 7+(0,02xRL)	< 23 mA
TPGL16	0...1600 kPa (16 bar)	0...10 V DC	12...33 V DC / 24 V AC ±15 %	< 7 mA
TPGL16-420	0...1600 kPa (16 bar)	4...20 mA	Max 33 V DC, Min 7+(0,02xRL)	< 23 mA
TPGL25	0...2500 kPa (25 bar)	0...10 V DC	12...33 V DC / 24 V AC ±15 %	< 7 mA
TPGL25-420	0...2500 kPa (25 bar)	4...20 mA	Max 33 V DC, Min 7+(0,02xRL)	< 23 mA
TPGL40	0...4000 kPa (40 bar)	0...10 V DC	12...33 V DC / 24 V AC ±15 %	< 7 mA
TPGL40-420	0...4000 kPa (40 bar)	4...20 mA	Max 33 V DC, Min 7+(0,02xRL)	< 23 mA

## Accessories

Article	Description
TPL105074	Mounting spacer which lowers the temperature at higher media temperatures than the sensor can handle
DBZ-AD1	Adapter 1/4" to 1/2". For mounting immersion sensors in 1/2"

## CE

**EMC emissions & immunity standards:** This product conforms to the requirements of the EMC Directive 2014/30/EU through product standard EN 61326-2-3:2013.

**RoHS:** This product conforms to the Directive 2011/65/EU of the European Parliament and of the Council.

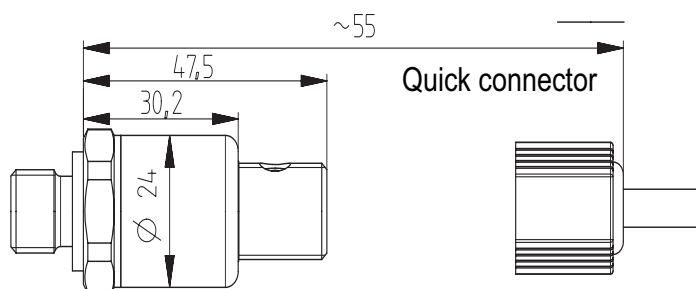
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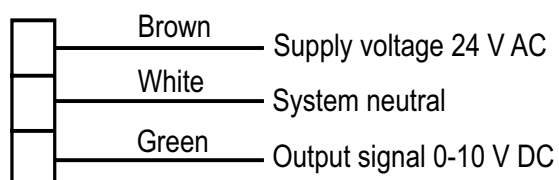
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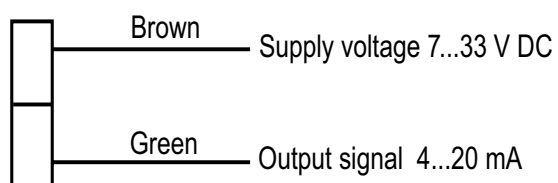
## Dimensions



## Wiring



0...10 V models



4...20 mA models

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