



PRESSURE TRANSDUCER TPX SERIES

Pressure transducers series TPX are used to measure absolute (TPXG) and relative (TPXG) pressure of liquids and gases, also chemical aggressive. This series is particularly useful in water and heat installations. The basic element of this transducer is piezo-resistive sensor separated from measured medium by stainless steel made diaphragm. The optional radiator makes possible measuring pressure up to 150°C.

CHARACTERISTICS

- very good stability and accuracy
- small size and weight
- high performance
- good reliability

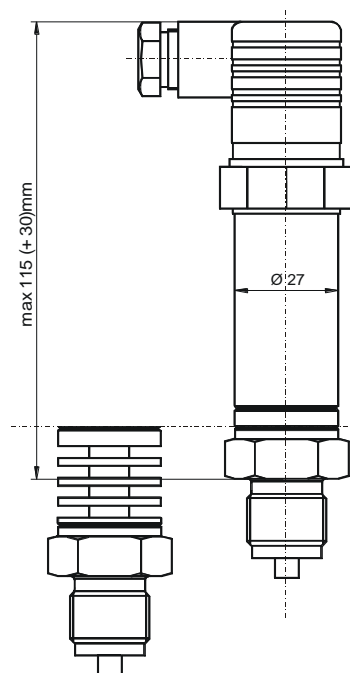
CONSTRUCTIONS

The basic element of this series is a piezo-resistive sensor placed in case made of stainless steel. Electronic board converts signal from this sensor to one of standard analog voltage or current output signals.

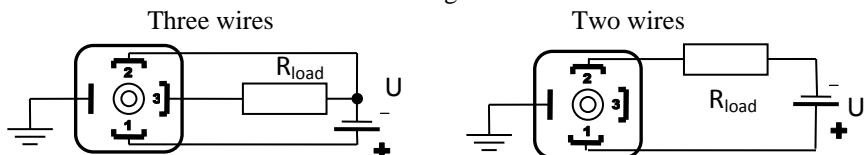
TECHNICAL DATA

Measure range [bar]	0÷6	0÷10	0÷16	0÷25
Overloading [bar]	4 x MR			

1.	Power supply [VDC]	<ul style="list-style-type: none"> • 15÷30 for output signal 0÷10V (three wires) • 10÷36 for output signal 4÷20mA (two wires)
2.	Output signals	<ul style="list-style-type: none"> • 4÷20mA $R_{load} \leq (U - 10)V / 0,02A$ • 0÷10V $R_{load} \geq 10\text{ k}\Omega$
3.	Accuracy [% MR]	$\leq 0,5$
4.	Long term accuracy	$\leq 0,2\%$ MR/year
5.	Temperatures [°C]	<ul style="list-style-type: none"> • ambient -20 ÷ 80 • medium -30 ÷ 130 • medium -30 ÷ 150 plus radiator • storage -30 ÷ 80
6.	CTR (compensation temperature range)	0÷70°C
7.	Accuracy within CTR	<ul style="list-style-type: none"> • zero $\leq 0,25\%$ MR / 10°C • range 0,3% MR / 10°C
8.	Enclosure protection	IP65
9.	Pressure connectors	<ul style="list-style-type: none"> • M20x1,5 • G1/2"
10.	Electrical connectors	DIN43650
11.	Materials	<ul style="list-style-type: none"> • Diaphragm 316L • case 316L • pressure connector: 316L
12.	Mass	350 g



Schematic diagram



Peltron Towarzystwo Produkcyjno Handlowe Sp. z o.o.

ul. Turystyczna 4, 05-462 Wiązowna

tel. +48 (22) 615-63-56 fax: +48 (22) 615-70-78 email: peltron@home.pl

XIV Wydział Krajowego Rejestru Sadowego, Numer KRS 000190284, NIP 113-00-18-140, Regon: 006210883

PELTRON
www.peltron.pl