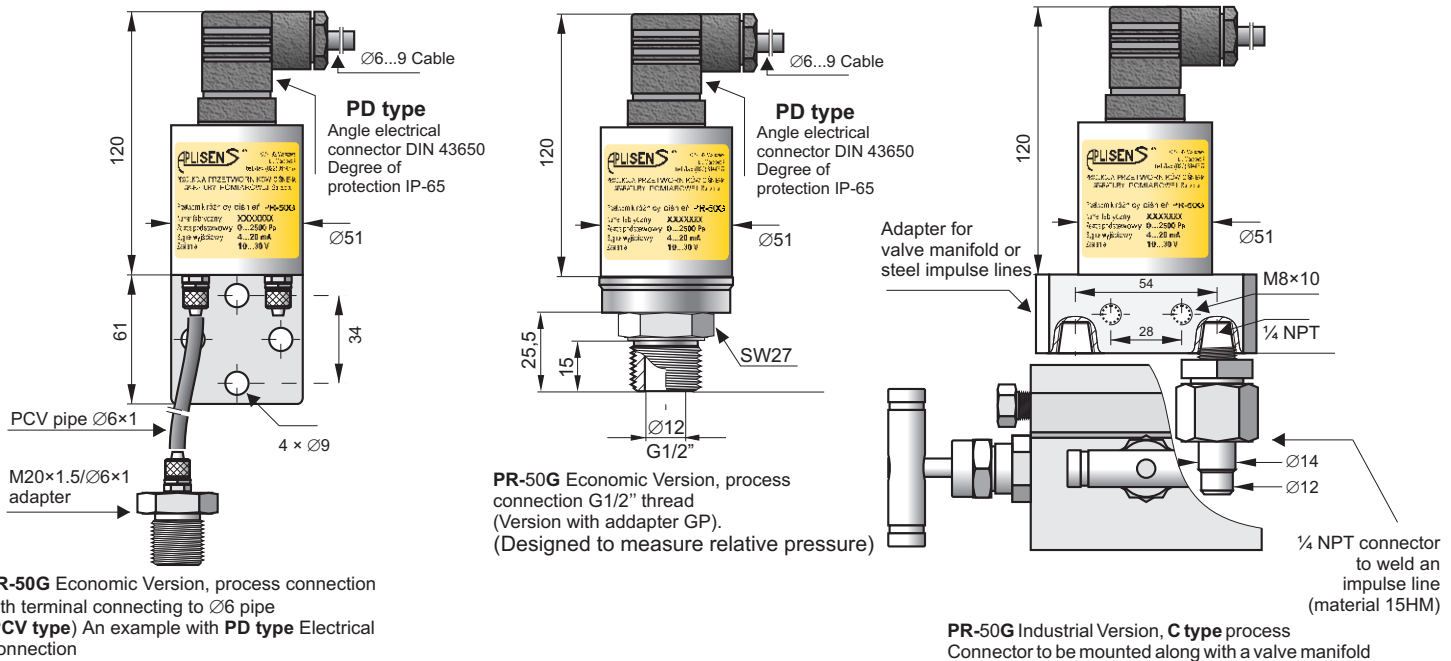


DIFFERENTIAL PRESSURE TRANSMITTER for low ranges PR-50G

NEW



PR-50G Economic Version, process connection with terminal connecting to Ø6 pipe (PCV type) An example with **PD type** Electrical Connection

PR-50G Industrial Version, C type process Connector to be mounted along with a valve manifold

- ✓ **Measuring range start from 250 Pa**
- ✓ **Output signal: 4-20mA, 0-20mA, 0-10V**

Application

The PR-50G transmitter is applicable to gases, to the measurements of their pressure, underpressure and differential pressure. Typical applications include the measurement of blast pressure, chimney draughts or pressure / underpressure in furnace chambers. IP protection IP54

Installation

The economical version can be mounted on any stable construction using the assembly fixture with Ø9 opening. The transmitter's connection shanks have terminals to be connected to the elastic Ø6x1 impulse line. Where the pulse comes through a metal pipe, we suggest an M20x1.5 adapter for a Ø6x1 fitting using.

The transmitter with a C type connector should be mounted on a 3- or 5-valve manifold. We recommend the use of our pre-assembled transmitters with VM type valves (page 62).

Technical data

Any measuring range

250 Pa ÷ 20 kPa

	Measuring range		
	250 Pa	≤ 700 Pa	> 700 Pa
Overpressure limit			
Static pressure limit (repeated – without histeresis)	35 kPa	35 kPa	100 kPa
accuracy	1,6%	0,6%	
Thermal error 10°C	1%	0,2%	

Hysteresis, repeatability 0,05% to 0,25%
depend on setting range

Thermal compensation range 5 ÷ 50°C

Operating temperature range -25 ÷ 80°C

Standard measuring range : 0...250; 0...500 Pa;
0...2; 0...5; 0...10 kPa;
-150...150; -250...250 Pa;
-0,5...0,5; -1...1; -2,5...2,5; -5...5; -10...10 kPa

Output signal 4 ÷ 20 mA two wire transmission
0 ÷ 20 mA three wire transmission
0 ÷ 10 V three wire transmission

Power supply 12 ÷ 30 V DC two wire transmission
22 ÷ 30 V DC three wire transmission

Error due to supply voltage changes 0,005% / V

Load resistance $R[\Omega] \leq \frac{U_{sup}[V] - 10.5V}{0.02A} \cdot 0.85$
(for current output)

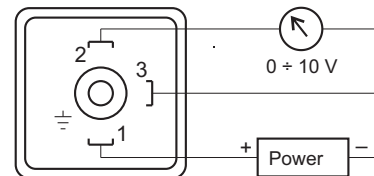
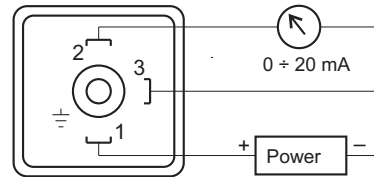
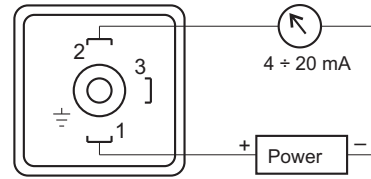
Load resistance $R \geq 5 \text{ k}\Omega$
(for supply output)

Housing material 0H18N9 (304ss)

Adapters material C, GP – 316Ti,
M20×1,5/Ø6×1 – mosiądz

Valve manifolds 316ss

Electrical diagram



Ordering procedure

Model	Code	Description
PR-50G		Differential pressure transmitter.
Measuring range	/.....÷.....[Required units]	Measuring range in relation to 4mA and 20mA (or 0 and 10V or 0 -20mA)
Casing,	/PD.....	Housing IP65 with DIN43650 connector, without display, output 4–20mA +Hart.
Process connections	/PCV.....	Process connection with terminal connecting for Ø6mm elastic pipe Mounting bracket for wall mounting is a standard.
	/C.....	Thread 1/4 NPT F on cover flange. Material of cover flange SS316L. Allows mounting with a valve manifold.
	/GP.....	Adapter with G1/2" process connection.
Accessories**	⇒ /M20x1,5/Ø6.....	Adapter from Ø6mm elastic pipe for M20x1,5 M thread (only version with PCV process connection)
	/RedSpaw C.....	Connector to weld impulse pipes dia. 12 and 14 mm, material 15HM. Only process connection C type.
	/+VM-3/A.....	Assembled with a 3- way valve manifold (further specification of manifold-see data sheet) . Only version with C type process connection.
	/+VM-5/A.....	Assembled with a 5- way valve manifold (further specification of manifold-see data sheet) Only version with C type process connection.
**) more than one option is available		
Other specification	/.....	Description of required parameters

Example : Differential pressure transmitter PR-50G / range 0...1 kPa / output signal 0 ÷ 10 V / process connection type PCV. adapter M20×1,5/Ø6×1 X 2 pcs.

PR-50G / 0 ÷ 1 kPa / 0 ÷ 10 V / PCV /2x adapter M20×1,5/Ø6×1