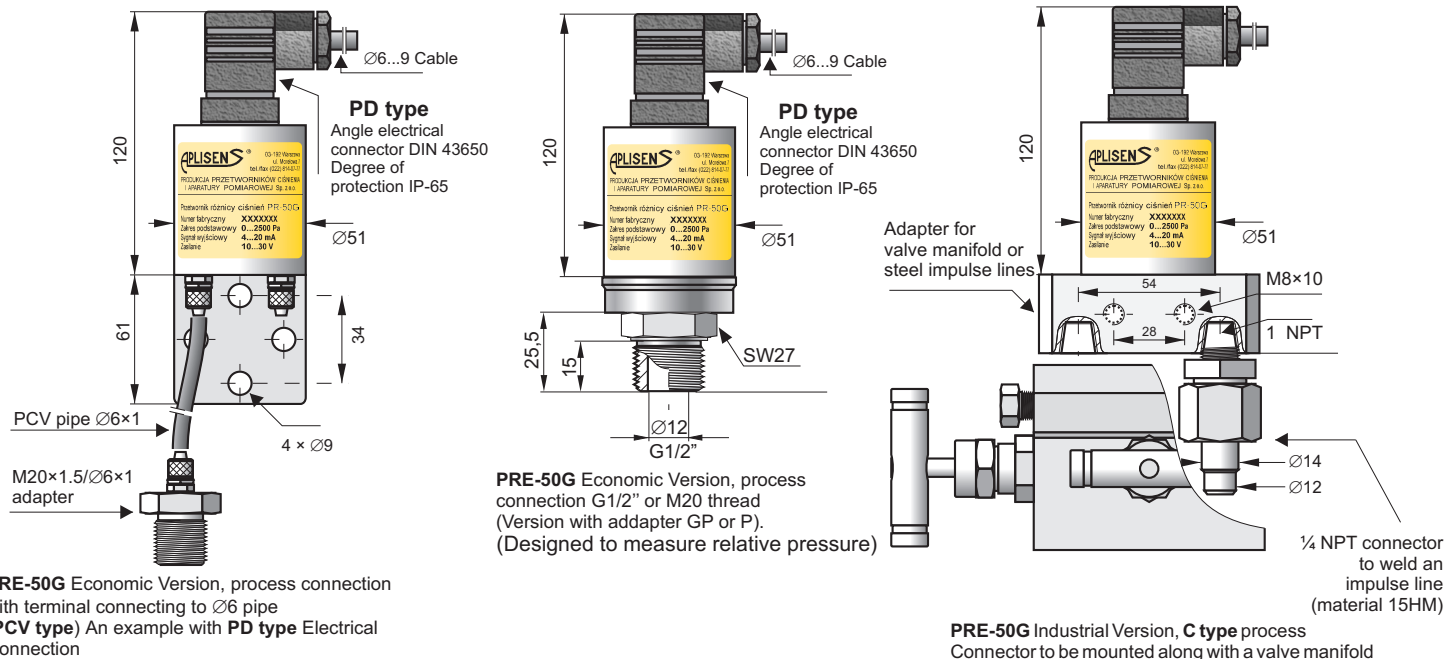


DIFFERENTIAL PRESSURE TRANSMITTER for low ranges PRE-50G



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

Application

The PRE-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 $\varnothing 9$ opening. The transmitter's connection shanks have terminals to be connected to the elastic $\varnothing 6 \times 1$ impulse line. Where the pulse comes through a metal pipe, we suggest an M20 \times 1.5 adapter for a $\varnothing 6 \times 1$ 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 IV/ 2).

Technical data

Any measuring range

250 Pa \pm 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 10 ± 39 V DC two wire transmission
12 ± 39 V DC three wire transmission

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

Load resistance $R[\Omega] \leq \frac{U_{sup}[V] - 10V}{0.02A}$ 0.85
(for current output)

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

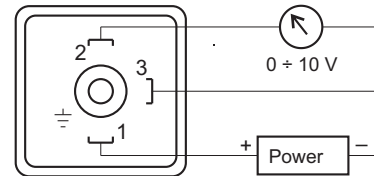
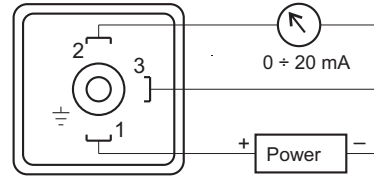
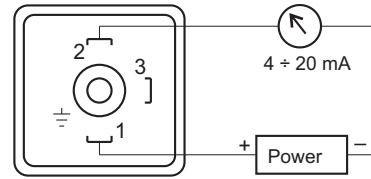
Housing material 0H18N9 (304ss)

Adapters material C, GP – 316Ti,

M20×1,5/Ø6×1 – brass

Valve manifolds 316ss

Electrical diagram



Ordering procedure

Model	Code	Description
PRE-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 or P.....	Adapter with G1/2" or M20 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 PRE-50G / range 0...1 kPa / output signal 0 ± 10 V / process connection type PCV. adapter M20×1,5/Ø6×1 X 2 pcs.

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