

Static Pressure Transmitter

Features



- Suitable for water, steam (with PL-HS) or air
- Compact rugged construction
- Negligible temperature influence
- Supply short circuit & polarity reversal protected

Specification

Output:

PL-507-x	4-20mA (2-wire loop powered)
PL-507-x-V	0-10Vdc

Supply voltage:

4-20mA	7 to 33Vdc
0-10Vdc	12 to 33Vdc or 24Vac ±15%

Load:

4-20mA	$\leq \frac{\text{Supply voltage} - 7V}{0.02A}$ (Ohm)
0-10Vdc	>10Kohm

Current consumption:

4-20mA	<23mA
0-10vdc	<7mA

Electrical connections DIN EN175301-803-A

Accuracy @ 25°C, 45% RH 24Vdc supply:

Characteristic line	±0.8 % fs
Resolution	0.1% fs
Thermal characteristic	±0.2 % fs/10K

Response time <2ms, 1ms typical

Load cycle <100Hz

Overload/rupture:

0 to 4bar versions	3 x measuring range fs
6 to 40 bar versions	2.5 x measuring range fs

Materials in contact with the medium Stainless steel 1.4305/AISI 303
FPM (Viton) & Ceramic Al₂O₃ (96%)

Temperature:

Media	-15 to 125°C
Ambient	-30 to 85°C

Dimensions 104 x 65mm

Pressure connection ½" BSP male manometer combi

Protection IP65

Conformity EN 61326-2-3, CE Marked, EMC

Country of origin Switzerland

Product Codes

4-20mA Output:

PL-528-1	Liquid pressure transmitter 0 to 1 bar
PL-528-1.6	Liquid pressure transmitter 0 to 1.6 bar
PL-528-2.5	Liquid pressure transmitter 0 to 2.5 bar
PL-528-4	Liquid pressure transmitter 0 to 4 bar
PL-528-6	Liquid pressure transmitter 0 to 6 bar
PL-528-10	Liquid pressure transmitter 0 to 10 bar
PL-528-16	Liquid pressure transmitter 0 to 16 bar
PL-528-25	Liquid pressure transmitter 0 to 25 bar
PL-528-40	Liquid pressure transmitter 0 to 40 bar

0-10Vdc Output:

PL-528-1-V	Liquid pressure transmitter 0 to 1 bar
PL-528-1.6-V	Liquid pressure transmitter 0 to 1.6 bar
PL-528-2.5-V	Liquid pressure transmitter 0 to 2.5 bar
PL-528-4-V	Liquid pressure transmitter 0 to 4 bar
PL-528-6-V	Liquid pressure transmitter 0 to 6 bar
PL-528-10-V	Liquid pressure transmitter 0 to 10 bar
PL-528-16-V	Liquid pressure transmitter 0 to 16 bar
PL-528-25-V	Liquid pressure transmitter 0 to 25 bar
PL-528-40-V	Liquid pressure transmitter 0 to 40 bar

Accessories

PL-HS	Pressure transmitter heat sink
PL-528-CAL	Calibration certificate

Technical Overview

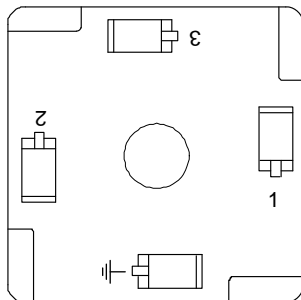
The PL-528 range of static pressure transmitters are suitable for use with liquids and non-aggressive gases compatible with the FPM (Viton seal).

The pressure transmitter is based on proven ceramic technology for exceptional performance speed and reliability.

Installation

1. Fix the transmitter to the pipe using a 1/2" BSP female connection, and an isolation valve.
2. You should avoid mounting the transmitter where it will be subjected to mechanical vibration.
3. The sensor can be mounted in any orientation if the temperature is between -15 to 125°C.
4. Remove the DIN connector.
5. Expose the electrical terminals feed cable through the cable gland and connected as required(see connections below).
6. Re-fit connector to transmitter.

Connections



PL-528-x (4-20mA):

- Terminal 1 7 - 33Vdc
- Terminal 2 4-20mA signal

PL-528-x-V (0-10Vdc):

- Terminal 1 12 - 33Vdc or 24Vac ±15%
- Terminal 2 0-10Vdc signal
- Terminal 3 0V (Ground)

Trend Scaling

4-20mA Output transmitters:

	Trange	Brange	Upper	Lower	Exp
PL-528-1	1	-1.5	1	0	2
PL-528-1.6	1.6	-2.4	1.6	0	2
PL-528-2.5	2.5	-3.75	2.5	0	2
PL-528-4	4	-6	4	0	2
PL-528-6	6	-9	6	0	2
PL-528-10	10	-15	10	0	2
PL-528-16	16	-24	16	0	2
PL-528-25	25	-35.5	25	0	2
PL-528-40	40	-60	40	0	3

0-10Vdc Output transmitters:

	Trange	Brange	Upper	Lower	Exp
PL-528-1-V	1	-1	1	0	2
PL-528-1.6-V	1.6	-1.6	1.6	0	2
PL-528-2.5-V	2.5	-2.5	2.5	0	2
PL-528-4-V	4	-4	4	0	2
PL-528-6-V	6	-6	6	0	2
PL-528-10-V	10	-10	10	0	2
PL-528-16-V	16	-16	16	0	2
PL-528-25-V	25	-25	25	0	2
PL-528-40-V	40	-40	40	0	3