

## Static Pressure Sensors

### Features



- Suitable for water, steam (with PL-HS) or air
- Robust construction
- No mechanical aging and creepage
- Reverse polarity protected

### Specification

#### Output:

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

#### Supply voltage:

4-20mA	11 to 33Vdc
0-10Vdc	18 to 33Vdc

#### Load:

4-20mA	$\leq \frac{\text{Supply voltage} - 11V}{0.02A}$ (Ohm)
0-10Vdc	>10Kohm

#### Current consumption:

4-20mA	<20mA
0-10vdc	<3mA

Electrical connections DIN EN175301-803

Total accuracy <math>\pm 0.3\%</math> of range

(Including linearity, hysteresis & repeatability)

Temp. coefficient sensitivity  $\pm 0.015\%$  fs/°K

Temp. coefficient zero point  $\pm 0.04\%$  fs/°K

Response time <math>< 5\text{ms}</math>

Overload 2 x Measuring range full scale

Rupture pressure 3 x Measuring range full scale

Materials in contact Ceramic / Stainless steel 1.4305 (AISI 303)

with the medium EPDM seal

Load cycle <math>< 50\text{Hz}</math>

#### Temperature:

Media -15 to 80°C

Ambient -15 to 80°C

Dimensions 135 x 34mm

Pressure connection 1/2" BSP male manometer combi

Protection IP65

#### CE Conformity:

EN 61000-6-2, EN 61326-1

EN 61000-6-3, CE Marked, EMC

Country of origin Switzerland

### Product Codes

#### 4-20mA Output:

##### PL-507-1

Liquid pressure transmitter 0 to 1 bar

##### PL-507-1.6

Liquid pressure transmitter 0 to 1.6 bar

##### PL-507-2.5

Liquid pressure transmitter 0 to 2.5 bar

##### PL-507-25

Liquid pressure transmitter 0 to 25bar

##### PL-507-40

Liquid pressure transmitter 0 to 40 bar

#### 0-10Vdc Output:

##### PL-507-1-V

Liquid pressure transmitter 0 to 1 bar

##### PL-507-1.6-V

Liquid pressure transmitter 0 to 1.6 bar

##### PL-507-25-V

Liquid pressure transmitter 0 to 25bar

##### PL-507-40-V

Liquid pressure transmitter 0 to 40 bar

## Technical Overview

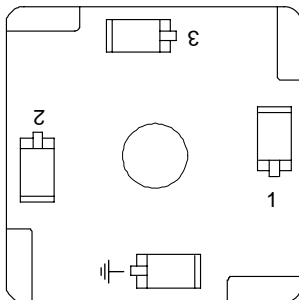
The PL-507 range of pressure transmitters are suitable for use with liquids and non-aggressive gases.

No mechanical aging and creepage. The sensor and transmitter are housed in a robust stainless steel casing with a DIN standard electrical connector, sealed for IP65 protection.

## 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 80°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-507-x (4-20mA):

Terminal 1 11 - 33Vdc  
Terminal 2 4-20mA signal

### PL-507-x-V (0-10Vdc):

Terminal 1 18 - 33Vdc  
Terminal 2 0-10Vdc signal  
Terminal 3 0V (Ground)

## Trend Scaling

4-20mA Output transmitters:

	Trange	Brange	Upper	Lower	Exp
PL-507-1	1	-1.5	1	0	2
PL-507-1.6	1.6	-2.4	1.6	0	2
PL-507-2.5	2.5	-3.75	2.5	0	2
PL-507-25	25	-35.5	25	0	2
PL-507-40	40	-60	40	0	3

0-10Vdc Output transmitters:

	Trange	Brange	Upper	Lower	Exp
PL-507-1-V	1	-1	1	0	2
PL-507-1.6-V	1.6	-1.6	1.6	0	2
PL-507-2.5-V	2.5	-2.5	2.5	0	2
PL-507-25-V	25	-25	25	0	2
PL-507-40-V	40	-40	40	0	3