

## Static Pressure Sensor

### Features

- Suitable for water, steam (with PL-HS) or air
- Robust construction



### Specification

#### Output:

PL-691-0.x	4-20mA (2-wire loop powered)
PL-691-0.x-V	0-10Vdc

#### Supply voltage:

4-20mA	11 to 33Vdc
0-10Vdc	18 to 33Vdc or 24Vac ±15%

#### Load:

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

#### Current consumption:

4-20mA	<20mA
0-10vdc	<5mA

Electrical connections DIN EN175301-803

Total accuracy <±0.3% full scale

Temp. coefficient zero point <±0.03% fs/°K

Temp. coefficient sensitivity <±0.015% fs/°K

Response time <5ms

Overload 2 x Measuring range full scale

Rupture pressure 3 x Measuring range full scale

Materials in contact Cermet / stainless steel 1.4305

with the medium EPDM seal

Load cycle <50Hz

#### Temperature:

Media -15 to 80°C

Ambient -15 to 80°C

Dimensions 132 x 40mm

Pressure connection ½" BSP male manometer combi

Protection IP65

#### CE Conformity:

EN 61000-6-2, EN 61000-6-3

CE Marked, EMC

#### Country of origin

Switzerland

### Product Codes

#### 4-20mA Output:

##### PL-691-0.1

Liquid pressure transmitter 0 to 100 mbar

##### PL-691-0.2

Liquid pressure transmitter 0 to 200 mbar

##### PL-691-0.3

Liquid pressure transmitter 0 to 300 mbar

##### PL-691-0.6

Liquid pressure transmitter 0 to 600 mbar

#### 0-10Vdc Output:

##### PL-691-0.1-V

Liquid pressure transmitter 0 to 100 mbar

##### PL-691-0.2-V

Liquid pressure transmitter 0 to 200 mbar

##### PL-691-0.3-V

Liquid pressure transmitter 0 to 300 mbar

##### PL-691-0.6-V

Liquid pressure transmitter 0 to 600 mbar

### Technical Overview

The PL-691 range of pressure transmitters are suitable for use with liquids and non-aggressive gases.

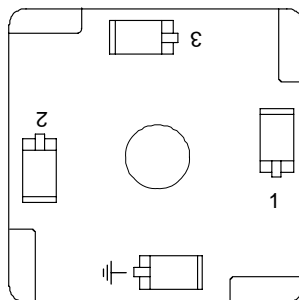
With unique ceramic sensing technology for no mechanical aging and creepage.

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 the 1/2" BSP male 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-691-0.x (4-20mA):

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

#### PL-691-0.x-V (0-10Vdc):

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

### Trend Scaling

4-20mA output:

	Trange	Brange	Upper	Lower	Exp
PL-691-0.1	100	-150	100	0	3
PL-691-0.2	200	-300	200	0	3
PL-691-0.3	300	-450	300	0	3
PL-691-0.6	600	-900	600	0	4

0-10Vdc output:

	Trange	Brange	Upper	Lower	Exp
PL-691-0.1-V	100	-100	100	0	3
PL-691-0.2-V	200	-200	200	0	3
PL-691-0.3-V	300	-300	300	0	3
PL-691-0.6-V	600	-600	600	0	4