

## Low Range Static Pressure Sensor

### Features

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



### Specification

<b>Output:</b>	
PL-691-0.x	4-20mA (2-wire loop powered)
PL-691-0.x-V	0-10Vdc
<b>Supply voltage:</b>	
4-20mA	11 to 33Vdc
0-10Vdc	18 to 33Vdc or 24Vac ±15%
<b>Load:</b>	
4-20mA	$\leq \frac{\text{Supply voltage} - 11V}{0.02A}$ (Ohm)
0-10Vdc	>10Kohm
<b>Current consumption:</b>	
4-20mA	<20mA
0-10vdc	<5mA
Electrical connections	1.5m flying lead
Total accuracy	<±0.3% full scale
Temp. coefficient zero point	<±0.03% fs/°K
Temp. coefficient sensitivity	<±0.015% fs/°K
Response time	<5ms
Load cycle	<50Hz
Overload	2 x Measuring range full scale
Rupture pressure	3 x Measuring range full scale
Materials in contact with the medium	Cermic / stainless steel 1.4305 EPDM seal
<b>Temperature:</b>	
Media	-15 to 80°C
Ambient	-15 to 80°C
Dimensions	132 x 40mm
Pressure connection	½" BSP male manometer combi
Protection	IP65
<b>CE Conformity:</b>	
	EN 61000-6-2, EN 61000-6-3 CE Marked, EMC
Country of origin	Switzerland

### Product Codes

<b>4-20mA Output:</b>	
<b>PL-691-0.1</b>	Liquid pressure transmitter 0 to 100 mbar
<b>PL-691-0.2</b>	Liquid pressure transmitter 0 to 200 mbar
<b>PL-691-0.3</b>	Liquid pressure transmitter 0 to 300 mbar
<b>PL-691-0.6</b>	Liquid pressure transmitter 0 to 600 mbar
<b>0-10Vdc Output:</b>	
<b>PL-691-0.1-V</b>	Liquid pressure transmitter 0 to 100 mbar
<b>PL-691-0.2-V</b>	Liquid pressure transmitter 0 to 200 mbar
<b>PL-691-0.3-V</b>	Liquid pressure transmitter 0 to 300 mbar
<b>PL-691-0.6-V</b>	Liquid pressure transmitter 0 to 600 mbar
<b>Accessories</b>	
<b>PL-HS</b>	Pressure sensor heat sink
<b>PL-691-CAL</b>	Calibration certificate

## 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 1.5 meter flying lead for electrical connection and sealed for IP65 protection.

## Installation

1. Fix the transmitter to the pipe using the ½" 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. If the temperature exceeds 80°C, fit a PL-HS to reduce the heat of the medium.
5. Make electrical connections.

## Connections

### PL-691-0.x (4-20mA):

Brown 11 - 33Vdc  
Green 4-20mA signal

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

Brown 18 - 33Vdc  
White 0-10Vdc signal  
Green 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