

## PL-692

# Liquid Differential Pressure Sensor



### Features:

- Suitable for water, steam (with pigtail) or air
- Robust construction
- 6mm Compression pressure connections

### Technical Overview

The PL-692 range of differential pressure transmitters is 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.

## Specification:

<b>Output:</b>	PL-692-x	4-20mA (2-wire loop powered)
	PL-6912-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	<25mA
	0-10vdc	<5mA
<b>Electrical connections</b>	1.5m flying lead	
<b>Accuracy (total Linearity, hysteresis &amp; repeatability) :</b>	±1.3% Full scale @ 2 x nominal pressure	
	±0.8% Full scale @ 3 x nominal pressure	
	±0.5% Full scale @ 5 x nominal pressure	
<b>Response time</b>	<5ms	
<b>Overload</b>	See page 3	
<b>Materials in contact with the medium</b>	Cermic / stainless steel 1.4305	
	EPDM seal	
<b>Load cycle</b>	<50Hz	
<b>Temperature:</b>		
Media	-15 to +80°C	
Ambient	-15 to +80°C	
<b>Dimensions</b>	130 x 40mm	
<b>Pressure connections</b>	6mm Compression	
<b>Protection</b>	IP65	
<b>CE Conformity:</b>	EN 61000-6-2, EN 61000-6-3	
	EMC, CE Marked	
<b>Country of origin</b>	Switzerland	



The products referred to in this data sheet meet the requirements of EU Directive 2004/108/EC

## Part Codes:

### 4-20mA Output:

<b>PL-692-0.1</b>	Liquid DP transmitter 0-100 mbar
<b>PL-692-0.2</b>	Liquid DP transmitter 0-200 mbar
<b>PL-692-0.4</b>	Liquid DP transmitter 0-400 mbar
<b>PL-692-1</b>	Liquid DP transmitter 0-1 bar
<b>PL-692-2.5</b>	Liquid DP transmitter 0-2.5 bar
<b>PL-692-4</b>	Liquid DP transmitter 0-4 bar
<b>PL-692-6</b>	Liquid DP transmitter 0-6 bar
<b>PL-692-10</b>	Liquid DP transmitter 0-10 bar
<b>PL-692-16</b>	Liquid DP transmitter 0-16 bar

### 0-10Vdc Output:

<b>PL-692-0.1-V</b>	Liquid DP transmitter 0-100 mbar
<b>PL-692-0.2-V</b>	Liquid DP transmitter 0-200 mbar
<b>PL-692-0.4-V</b>	Liquid DP transmitter 0-400 mbar
<b>PL-692-1-V</b>	Liquid DP transmitter 0-1 bar
<b>PL-692-2.5-V</b>	Liquid DP transmitter 0-2.5 bar
<b>PL-692-4-V</b>	DP pressure transmitter 0-4 bar
<b>PL-692-6-V</b>	Liquid DP transmitter 0-6 bar
<b>PL-692-10-V</b>	Liquid DP transmitter 0-10 bar
<b>PL-692-16-V</b>	Liquid DP transmitter 0-16 bar

### Accessory

<b>PL-692-CAL</b>	Calibration certificate
-------------------	-------------------------

## Installation & Connections:

1. Fix the transmitter to the system pipe using the 6mm compression connectors on both low and high pressure ports.
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. Make electrical connections

- **PL-692-x (4-20mA):**

Brown            11 - 33Vdc  
Green            4-20mA signal

- **PL-692-x-V (0-10Vdc):**

Brown            18 - 33Vdc  
White            0-10Vdc signal  
Green            0V (Ground)

## Maximum Differential Pressure:

	Overload 1 side (max.)	
	P1 (+)	P2 (-)
PL-692-0.1	0.6 bar	0.6 bar
PL-692-0.2	1.2 bar	1.2 bar
PL-692-0.4	2 bar	2 bar
PL-692-1	5 bar	5 bar
PL-692-2.5	12 bar	12 bar
PL-692-4	12 bar	12 bar
PL-692-6	12 bar	12 bar
PL-692-10	20 bar	12 bar
PL-692-16	32 bar	12 bar

Whilst every effort has been made to ensure the accuracy of this specification, Sontay cannot accept responsibility for damage, injury, loss or expense from errors or omissions. In the interest of technical improvement, this specification may be altered without notice.

**Tel:** +44 (0)1732 861200. - **E-mail:** sales@sontay.com. - **Web:** www.sontay.com.

© 2012 Sontay Limited. All rights reserved