Differential Pressure Sensors

Features

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

Specification

Output:	
PL-692-x	4-20mA (2-wire loop powered)
PL-6912-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	<25mA
0-10vdc	<5mA
Electrical connections	DIN EN175301-803
Accuracy (total Linearity, hysteresis & repeatability) :	
±1.3% Full scale @ 2 x nominal pressure	
±0.8% Full scale @ 3 x nominal pressure	
±0.5% Full scale @ 5 x nominal pressure	
Response time	<5ms
Overload	See page 2
Materials in contact	Cermic / stainless steel 1.4305
with the medium	EPDM seal
Load cycle	<50Hz
Temperature:	
Media	-15 to +80°C
Ambient	-15 to +80°C
Dimensions	130 x 40mm
Pressure connections	6mm Compression
Protection	IP65
CE Conformity:	
	EN 61000-6-2, EN 61000-6-3
	EMC, CE Marked
Country of origin	Switzerland

Product Codes

4-20mA Output:

PL-692-0.1
Liquid differential pressure transmitter 0-100 mbar

PL-692-0.2
Liquid differential pressure transmitter 0-200 mbar

PL-692-0.4
Liquid differential pressure transmitter 0-400 mbar

PL-692-1
Liquid differential pressure transmitter 0-1 bar

PL-692-2.5
Liquid differential pressure transmitter 0-2.5 bar

PL-692-4
Liquid differential pressure transmitter 0-4 bar

PL-692-6
Liquid differential pressure transmitter 0-6 bar

PL-692-10
Liquid differential pressure transmitter 0-10 bar

PL-692-16
Liquid differential pressure transmitter 0-16 bar

0-10Vdc Output:

PL-692-0.1-V
Liquid differential pressure transmitter 0-100 mbar

PL-692-0.2-V
Liquid differential pressure transmitter 0-200 mbar

PL-692-0.4-V
Liquid differential pressure transmitter 0-400 mbar

PL-692-1-V
Liquid differential pressure transmitter 0-1 bar

PL-692-2.5-V
Liquid differential pressure transmitter 0-2.5 bar

PL-692-4-V
Liquid differential pressure transmitter 0-4 bar

PL-692-6-V
Liquid differential pressure transmitter 0-6 bar

PL-692-10-V
Liquid differential pressure transmitter 0-10 bar

PL-692-16-V
Liquid differential pressure transmitter 0-16 bar

Technical Overview

The PL-692 range of differential 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 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.

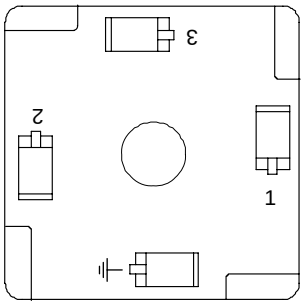
3. The sensor can be mounted in any orientation if the temperature is between -15 to +80°C.

4. 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-692-x (4-20mA):

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

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

Terminal 1 24Vac±15% or 18 - 33Vdc
Terminal 2 0-10Vdc signal
Terminal 3 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	0.12 bar	0.12 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

Trend Scaling

4-20mA output transmitters:

	Trange	Brange	Upper	Lower	Exp
PL-692-0.1	0.1	-0.15	0.1	0	2
PL-692-0.2	0.2	-0.3	0.2	0	2
PL-692-0.4	0.4	-0.6	0.4	0	2
PL-692-1	1	-1.5	1	0	2
PL-692-2.5	2.5	-3.75	2.5	0	2
PL-692-4	4	-6	4	0	2
PL-692-6	6	-9	6	0	2
PL-692-10	10	-15	10	0	2
PL-692-16	16	-24	16	0	2

0-10Vdc output transmitters:

	Trange	Brange	Upper	Lower	Exp
PL-692-0.1-V	0.1	-0.1	0.1	0	2
PL-692-0.2-V	0.2	-0.2	0.2	0	2
PL-692-0.4-V	0.4	-0.4	0.4	0	2
PL-692-1-V	1	-1	1	0	2
PL-692-2.5-V	2.5	-2.5	2.5	0	2
PL-692-4-V	4	-4	4	0	2
PL-692-6-V	6	-6	6	0	2
PL-692-10-V	10	-10	10	0	2
PL-692-16-V	16	-16	16	0	2