

Liquid pressure transmitter

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.



Features

- Suitable for water, steam (with pigtail) 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 43650-A
Total accuracy	<±0.3% of range
(Including linearity & repeatability)	
Temp. coefficient	±0.015% of range °C
Temp. zero point	±0.03% of range °C
Response time	<5ms
Overload	2 x Measuring range full scale
Rupture pressure	3 x Measuring range full scale
Materials in contact with the medium	Cermic/Inox 1.4305
	EPDM seal
Load cycle	<50Hz
Temperature:	
Media	-15 to 80°C
Ambient	-15 to 80°C
Dimensions	132 x 40mm
Pressure connection	½" BSP female
Protection	IP65
Weight	0.3Kg
CE Conformity:	EN 50081-1
	EN 50081-2
	EN 50082-2
	CE Marked

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

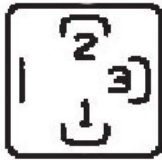
0-10Vdc Output

- 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

1. Fix the transmitter to the pipe using a 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.

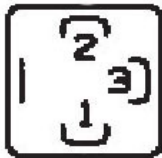
Connections

4-20mA:



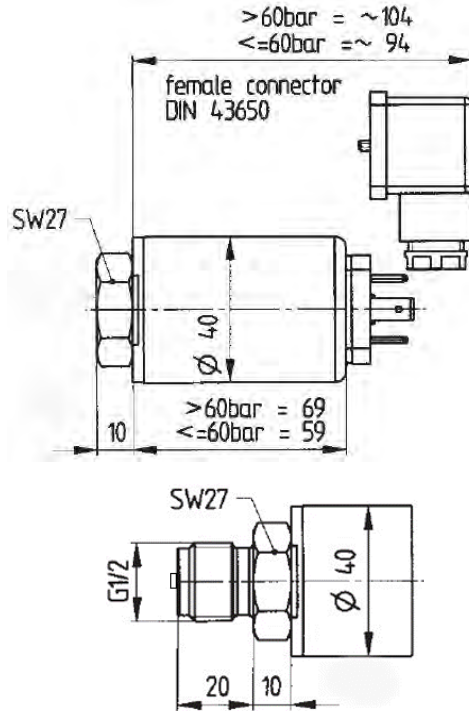
Terminal 1 24Vdc
Terminal 2 4-20mA signal

0-10Vdc:



Terminal 1 24Vac/dc
Terminal 2 0-10Vdc signal
Terminal 3 0V (ground)

Dimensions



Trend scaling

4-20mA Output transmitters:

	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-.06	600	-900	600	0	3

0-10Vdc Output transmitters:

	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-.06-V	600	-600	600	0	3