

Pressure Transmitter

Features



- IP67 Protection
- Suitable for water, gasses or steam (with PL-HS)
- Complete with 1.5m cable
- Reverse polarity protected

Specification

Output:	
PL-511-x	4-20mA (2-wire loop powered)
PL-511-x-V	0-10Vdc
Supply voltage:	
PL-511-x	8 - 33Vdc, 2-wire
PL-511-x-V	16 - 34Vdc or 24Vac ±15%, 3-wire
Load:	
4-20mA	$\leq \frac{\text{Supply voltage} - 8\text{V}}{0.02\text{A}}$ (Ohm)
0-10Vdc	>10kOhm / <100nF
Current consumption:	
4-20mA	<20mA
0-10vdc	<4mA
Electrical connections	1.5 Metre flying lead
Total accuracy	<±0.3% fs (linearity, hysteresis & repeatability)
Response time	<2ms, typical 1ms
Overload:	
0 to 4 bar	3 x Measuring range full scale
6 to 16 bar	2.5 x Measuring range full scale
Materials in contact	Ceramic / Stainless steel 1.4305 with the medium (AISI 303), FPM (Viton) seal
Load cycle	<50Hz
Temperature:	
Media	-15 to 125°C
Ambient	85°C max.
Dimensions	95.8 x 22.8mm
Pressure connection	½" BSP male manometer combi
Protection	IP67
CE Conformity:	
	EN 61000-6-3, EN 61000-6-2 EN 61326-1, EMC
Test / Admissions:	
	Shock acc. IEC 68-2-27 Constant shock acc. IEC 68-2-29 Vibration acc. IEC 68-2-6 CE Marked, UL Approved
Country of origin	Switzerland

Product Codes

4-20mA Output:

PL-511-4

Liquid pressure transmitter 0 to 4 bar

PL-511-6

Liquid pressure transmitter 0 to 6 bar

PL-511-10

Liquid pressure transmitter 0 to 10 bar

PL-511-16

Liquid pressure transmitter 0 to 16 bar

0-10Vdc Output:

PL-511-4-V

Liquid pressure transmitter 0 to 4 bar

PL-511-6-V

Liquid pressure transmitter 0 to 6 bar

PL-511-10-V

Liquid pressure transmitter 0 to 10 bar

PL-511-16-V

Liquid pressure transmitter 0 to 16 bar

Technical Overview

The PL-511 range of pressure transmitter are suitable for use with a large range of liquids and gasses (please check compatibility with the FPM (Viton seal)).

The sensor and transmitter are housed in a robust stainless steel casing with a 1.5 metre cable, and sealed for IP67 protection.

Installation

1. In a suitable location fix the transmitter to the pipe using a 1/2" BSP female manometer combi connection, and an isolation valve.
2. You should avoid mounting the transmitter where it will be subjected to excessive mechanical vibration.
3. If the temperature exceeds 125°C, fit a PL-HS to reduce the heat of the medium.
4. Make electrical connections.

Connections

PL-511-x (4-20mA Output):

Brown 8 to 33Vdc
Green 4-20mA Output

PL-511-x-V (0-10Vdc Output):

Brown 16 to 34Vdc or 24Vac ±15%
White 0V
Green 0-10Vdc Output

Trend Scaling

4-20mA output transmitters:

	Trange	Brange	Upper	Lower	Exp
PL-511-4	4	-6	4	0	2
PL-511-6	6	-9	6	0	2
PL-511-10	10	-15	10	0	2
PL-511-16	16	-24	16	0	2

0-10Vdc output transmitters:

	Trange	Brange	Upper	Lower	Exp
PL-511-4-V	4	-4	4	0	2
PL-511-6-V	6	-6	6	0	2
PL-511-10-V	10	-10	10	0	2
PL-511-16-V	16	-16	16	0	2