



Features and Benefits

- Suitable for water, steam (with PL-HS) or air
- Compact rugged construction
- Welded without sealing parts
- Very high measurement accuracy
- Excellent thermal characteristic

Technical Overview

The PL-520 pressure sensor uses thick film technology where the pressure cell is fully welded. This then meets high burst protection demands and is suitable for a large number of different medias.

Product Codes

4-20mA Output:

PL-520-1	Liquid pressure transmitter	0 to 1 bar
PL-520-1.6	“ “	0 to 1.6 bar
PL-520-2.5	“ “	0 to 2.5 bar
PL-520-4	“ “	0 to 4 bar
PL-520-6	“ “	0 to 6 bar
PL-520-10	“ “	0 to 10 bar
PL-520-16	“ “	0 to 16 bar
PL-520-25	“ “	0 to 25 bar
PL-520-40	“ “	0 to 40 bar

0-10Vdc Output:

PL-520-1-V	Liquid pressure transmitter	0 to 1 bar
PL-520-1.6-V	“ “	0 to 1.6 bar
PL-520-2.5-V	“ “	0 to 2.5 bar
PL-520-4-V	“ “	0 to 4 bar
PL-520-6-V	“ “	0 to 6 bar
PL-520-10-V	“ “	0 to 10 bar
PL-520-16-V	“ “	0 to 16 bar
PL-520-25-V	“ “	0 to 25 bar
PL-520-40-V	“ “	0 to 40 bar

Accessories


PL-HS	Pressure transmitter heat sink
PL-520-CAL	Calibration certificate

Specification

Output:	PL-520-x	4-20mA (2-wire loop powered)
	PL-520-x-V	0-10Vdc
Supply voltage:	4-20mA	7-33Vdc
	0-10Vdc	12-33Vdc or 24Vac ±15%
Current consumption:	4-20mA	<23mA
	0-10vdc	<7mA
Electrical connections	DIN EN175301-803-A	
Accuracy* @ 25°C, 45% RH 24Vdc supply:	Characteristic line	±0.3 % fs
	Resolution	0.1% fs
	Thermal characteristic	±0.02 %
	Long term stability	±0.25 % fs max.
Response time	<2 m/s. 1 m/s. Typ.	
Load cycle	<100Hz	
Overload:	≤6 bar	5 x fs
	> 6 bar	3 x fs (max. 1500 bar)
Rupture:	≤6 bar	10 x fs
	>6 bar	6 x fs (max. 2500 bar)
Materials in contact with the medium	S/S 1.4404/AISI 316L	
Temperature:	Media	-40 to +135°C
	Ambient	-30 to +85°C
	Storage	-50 to +100°C
Dimensions	88 x 36mm dia.	
Pressure connection	½" BSP male	
Protection	IP65	
Conformity	WRAS, EMC, CE & UKCA Marked	
Country of origin	Switzerland	

* For PL-520-1 & PL-520-1.6 accuracy, fs = 2.5 bar

WEEE Directive:

 At the end of the products useful life please dispose as per the local regulations. Do not dispose of with normal household waste. Do not burn.



Installation

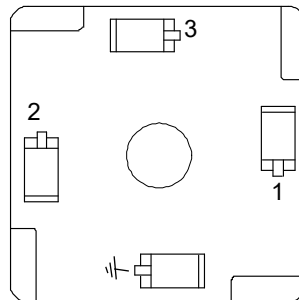
1. Fix the transmitter to the pipe using a ½" BSP female connection, and a gate valve
2. You should avoid mounting the transmitter where it will be subjected to mechanical vibration.
3. The sensor can be mounted in any orientation if the temperature is between -40 to 135°C.
4. Remove the DIN connector and expose the electrical terminals feed cable through the cable gland and connected as required. Re-fit connector to transmitter and tighten screw.
5. When opening the gate valve it is important to do this slowly to avoid pressure spikes that can damage the transmitter,

PL-520-x (4-20mA):

- Terminal 1 7 - 33Vdc
- Terminal 2 4-20mA signal

PL-520-x-V (0-10Vdc):

- Terminal 1 12 - 33Vdc or 24Vac ±15%
- Terminal 2 0-10Vdc signal
- Terminal 3 0V (Ground)



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