Sontay®
Four Elms Road - Edenbridge
Kent - TN8 6AB - UK

PL-652
Low Range Differential Pressure Sensor

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Features and Benefits

- Suitable for water, steam (with pigtail) or air
- Robust construction
- ⅛“ BSP female pressure connections

Technical Overview

The PL-652 range of differential pressure transmitters are suitable for use with liquids and non-aggressive gases.
The pressure or pressure differential to be monitored acts on a diaphragm, which in turn acts against a spring.

As a result of the pressure action and resultant diaphragm movement a permanent magnet fastened on the diaphragm moves in the direction of the hall sensor arranged outside the pressure case.

The sensor and transmitter are housed in a robust brass casing, sealed for IP65 protection.

Product Codes

PL-652-0.05	4-20mA Liquid diff.pressure transmitter 0 to 50 mbar
PL-652-0.05-V	0-10Vdc Liquid diff. pressure transmitter 0 to 50 mbar

Accessory

PL-652-CAL	Calibration certificate

Specification

Output:		
	PL-652-x	4-20mA
	PL-652-x-V	0-10Vdc
Supply voltage		20 to 30Vdc
Load:		
	4-20mA	≤ 300 Ohm
	0-10Vdc	>10Kohm
Current consumption:		
	4-20mA	<55mA
	0-10vdc	<35mA
Electrical connections	Screwed terminals	
Accuracy:		
	Linearity	<±1.5% FS
	Hysteresis	<±1.5% FS
	Zero point offset	<±1.0% FS
Temp. drift		0.08 % FSºC (20ºC related to zero)
Response time		<5ms
Overload:		
	Standard range 10 bar	
	Specials	20 bar
Rupture pressure		30 bar
Materials in contact with the media		EPDM seal, brass & stainless steel
Temperature:		
	Media	-10 to 80ºC
	Ambient	-25 to 60ºC (electronic pcb)
Dimensions		90 x 50mm
Pressure connections		⅛“ BSP female
Protection		IP65
Country of origin		Switzerland
Conformity		EMC, CE & UKCA Marked

⚠ Please Note:

Current versions are NOT loop powered and will require a common 0V connection.

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.

CE UKCA

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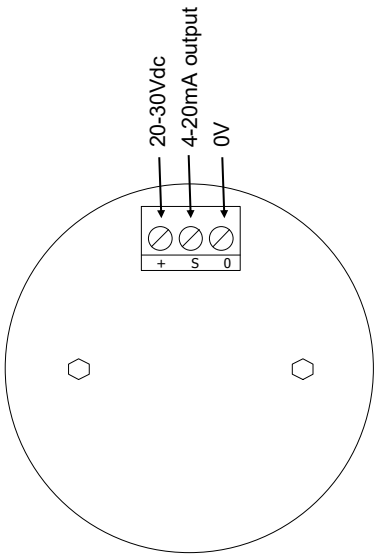
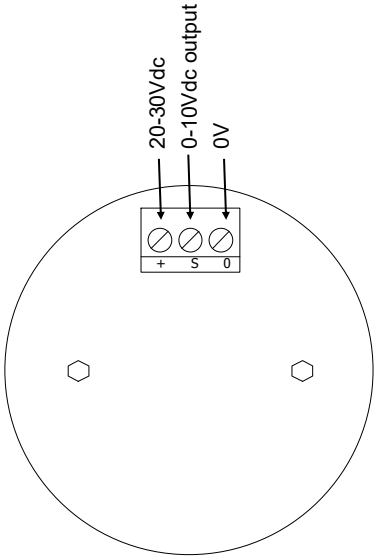
Installation, Electrical Connections & Dimensions

1. Fix the transmitter to the pipe using the ⅛" BSP female connections, and an isolation valve on both high and low pressure ports.
2. You should avoid mounting the transmitter where it will be subjected to mechanical vibration.
3. The sensor should be mounted vertically, this is the position that it was calibrated in.
4. Remove the top housing.
5. Expose the electrical terminals feed cable through the cable gland and connected as required (see connections below).
6. Re-fit top housing to the transmitter.
7. When power is first applied, a warming up period of 30 minutes should be allowed. This enables the sensitive electronics to stabilise.

PL-652-x (4-20mA):



PL-652-x-V(0-10Vdc):



Please Note:

Current versions are **NOT** loop powered and will require a common 0V connection.

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.

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