



### Features & Benefits

- Suitable for water, steam (with pigtail) or air
- Robust construction
- 1/8" 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

|                      |   |
|----------------------|---|
| <b>PL-652-0.05</b>   | 4-20mA Liquid diff.pressure transmitter<br>0 to 50 mbar   |
| <b>PL-652-0.05-V</b> | 0-10Vdc Liquid diff. pressure transmitter<br>0 to 50 mbar |
| <i>Accessory</i>     |   |
| <b>PL-652-CAL</b>    | 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 % FS°C (20°C 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 80°C  |
|                                     | Ambient           | -25 to 60°C (electronic pcb)                             |
| Dimensions                          |                   | 90 x 50mm  |
| Pressure connections                |                   | 1/8" BSP female  |
| Protection                          |                   | IP65   |
| CE Conformity:                      |                   | EN 61000-6-2, EN 61000-6.3<br>EN 61326-1, CE Marked, EMC |
| Country of origin                   |                   | Switzerland  |

 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.

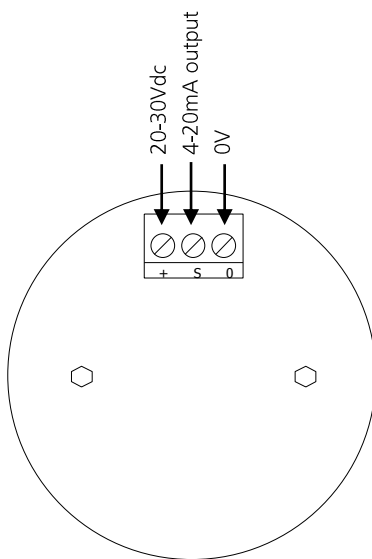


The products referred to in this data sheet meet the requirements of EU Directive 2014/30/EU

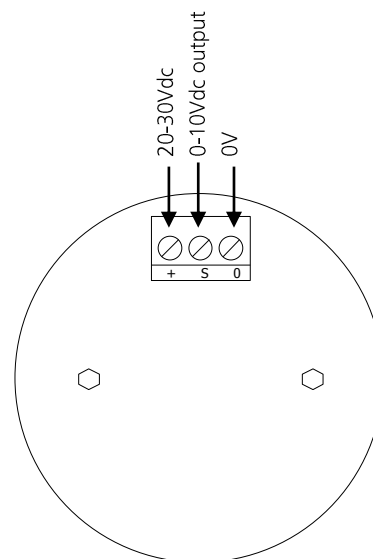
## Installation, Electrical Connections & Dimensions

1. Fix the transmitter to the pipe using the 1/8" 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 from errors or omissions. In the interest of technical improvement, this specification may be altered without notice.