

Low Differential Pressure Sensor

Series PSE550

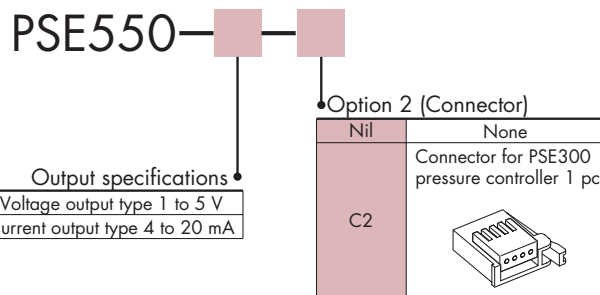


Features

- Low differential pressure sensor
- For air or dry gases
- Measures $\pm 2\text{ kPa}$ (0.3 Psi)
- 1-5v or 4-20mA analogue output options
- Direct connection of 4mm ID tubing
- Typical applications, filter back pressure monitoring or fan output checking
- Mounting bracket available
- Integrated indicator light



How to Order



Output specifications

Nil	Voltage output type 1 to 5 V
28	Current output type 4 to 20 mA

Note 1) Current output type cannot be connected to the Series PSE300.
 Note 2) The connector is unassembled in the factory but is included with the shipment.

Accessories

Description	Part no.	Note
Bracket	ZS-30-A	With M3 x 5L (2 pcs.)
Connector for PSE300	ZS-28-C	1 pc.

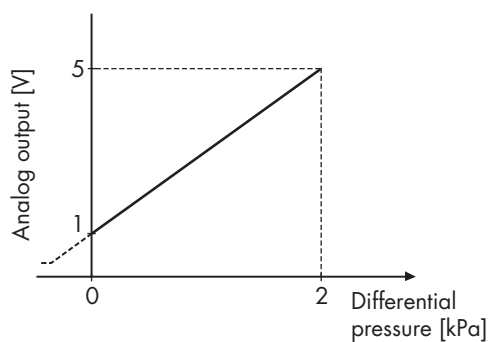
Specifications

Model	PSE550	PSE550-28
Rated differential pressure range	0 to 2 kPa	
Operating pressure range	-50 to 50 kPa ^{Note)}	
Proof pressure	65 kPa	
Applicable fluid	Air/Non-corrosive gas/Non-flammable gas	
Power supply voltage	12 to 24 VDC $\pm 10\%$, Ripple (p-p) 10% or less (With power supply polarity protection)	
Current consumption	15 mA or less	
Output specification	Analogue output 1 to 5 VDC (Within rated differential pressure range) Output impedance: Approx. 1 k Ω	Analogue output 4 to 20 mADC (Within rated differential pressure range) Allowable load impedance: 500 Ω or less (at 24 VDC) 100 Ω or less (at 12 VDC)
Accuracy (Ambient temperature of 25°C)	$\pm 1\%$ F.S. or less	
Linearity	$\pm 0.5\%$ F.S. or less	
Repeatability	$\pm 0.3\%$ F.S. or less	
Indication light	Orange light is on (When energized)	
Enclosure	IP40	
Operating temperature range	Operating: 0 to 50°C, Stored: -20° to 70°C (No freezing or condensation)	
Operating humidity range	Operating/Stored: 35 to 85% RH (No condensation)	
Withstand voltage	1000 VAC or more, 50/60 Hz for 1 minute between live parts and case	
Insulation resistance	50 M Ω or more between live parts and case (at 500 VDC)	
Temperature characteristics	$\pm 3\%$ F.S. or less (Based on 25°C)	
Port size	$\phi 4.8$ ($\phi 4.4$ in the end) resin piping (Applicable to I.D. $\phi 4$ air tubing)	
Material of wetted parts	Resin pipe: Nylon, Piston area of sensor: Silicon	
Sensor cable	3-wire oval cable (0.15 mm ²)	2-wire oval cable (0.15 mm ²)
Weight	With sensor cable	75 g
	Without sensor cable	35 g

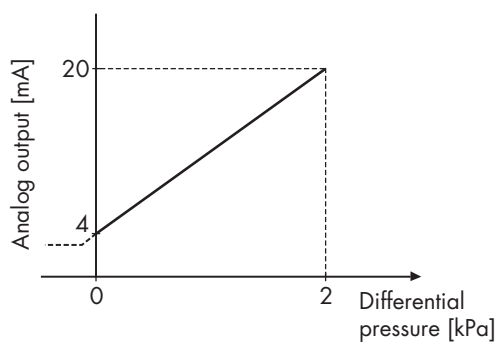
Note) Can detect differential pressure from 0 to 2 kPa within the range of -50 to 50 kPa.

Analog Output

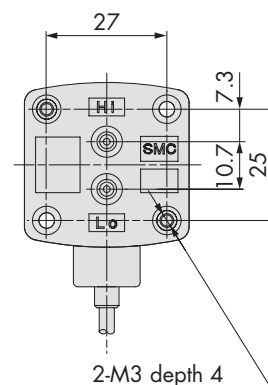
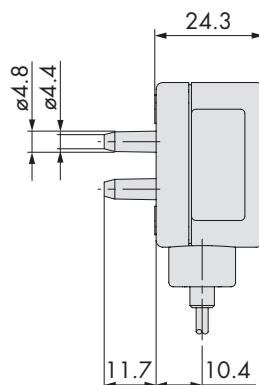
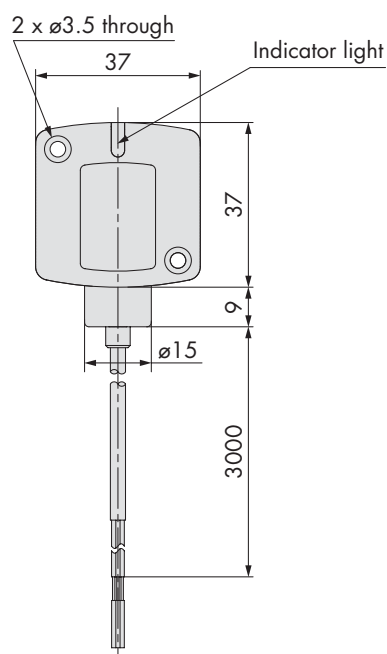
1 to 5 VDC



4 to 20 mA



Dimensions



With bracket

