

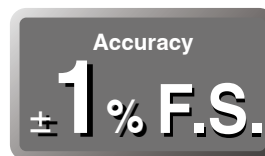
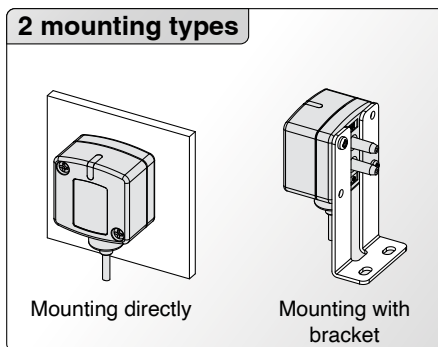
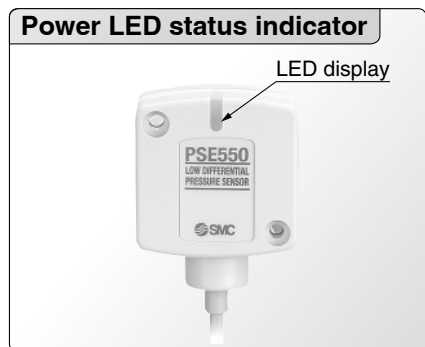


Low Differential Pressure Sensor

PSE550 Series

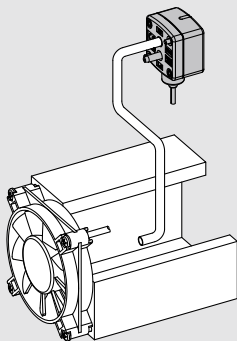


Series	Rated pressure range		
	0	1 kPa	2 kPa
PSE550	0	2 kPa	



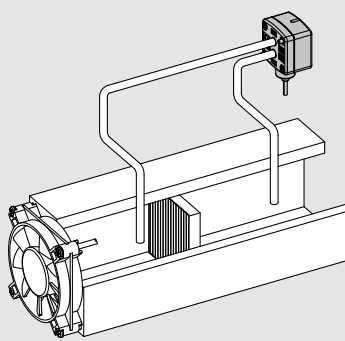
Application examples

Flow control
PSE550 Series



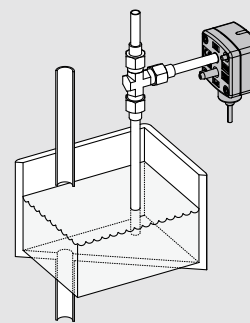
Can control air flow by monitoring the flow rate inside the duct.

Filter clogging monitoring
PSE550 Series



Can control filtration and replacement periods by monitoring the clogging of the filter.

Liquid level detection
PSE550 Series



Can detect the liquid level through changes in the purge pressure.

Low Differential Pressure Sensor

PSE550 Series



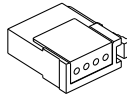
How to Order

PSE550-□-□-□

Output specifications

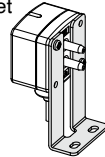
—	Voltage output type 1 to 5 V
28	Current output type 4 to 20 mA

Option 2 (Connector)

—	None
C2	Connector for pressure sensor controller (1 pc.) 

- * Not applicable to the PSE200 series.
- * The connector is not attached to the cable, but is included with the shipment.

Option 1 (Bracket)

—	None
A	Bracket 

- * The bracket is not attached to the product, but is included with the shipment.

Options/Part Nos.

Description	Part no.	Note
Bracket	ZS-30-A	With M3 x 5 L (2 pcs.)
Connector for pressure sensor controller	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*1	
Extension analogue output range	-0.2 to 0 kPa	—
Proof pressure	65 kPa	
Applicable fluid	Air/Non-corrosive gas/Non-flammable gas	
Power supply voltage	12 to 24 VDC ±10 %, Ripple (p-p) 10 % or less (with reverse connection protection)	
Current consumption	15 mA or less	—
Output specifications	Analogue output: 1 to 5 VDC (within rated differential pressure range) 0.6 to 1 VDC (within extension analogue output range) Output impedance: Approx. 1 kΩ	Analogue output: 4 to 20 mA DC (within rated differential pressure range) Maximum load impedance: 500 Ω or less (at 24 VDC) 100 Ω or less (at 12 VDC)
Accuracy (Operating temperature at 25 °C)	±1 % F.S. (within rated differential pressure range), ±3 % F.S. (within extension analogue output range)	
Linearity	±0.5 % F.S.	
Repeatability	±0.3 % F.S.	
Indicator light	Orange light is turned on. (When energized)	
Environment	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 (in 50/60 Hz) for 1 min between terminals and housing
	Insulation resistance	50 MΩ or more (500 VDC measured via megohmmeter) between terminals and housing
Temperature characteristics	±3 % F.S. (25 °C reference)	
Port size	Ø 4.8 (Ø 4.4 in the end) resin piping (Applicable to I.D. Ø 4 air tubing)	
Materials of parts in contact with fluid	Resin pipe: Nylon, Piston area of sensor: Silicon	
Sensor cable	Oilproof heavy-duty vinyl cable (ellipse), 3 cores, Ø 2.6, 3 m Conductor area: 0.15 mm ² , Insulator O.D.: 0.9 mm	Oilproof heavy-duty vinyl cable (ellipse), 2 cores, Ø 2.6, 3 m Conductor area: 0.15 mm ² , Insulator O.D.: 0.9 mm
Weight	With sensor cable	75 g
	Without sensor cable	35 g
Standards	CE/UKCA marking, UL/CSA (E216656)	

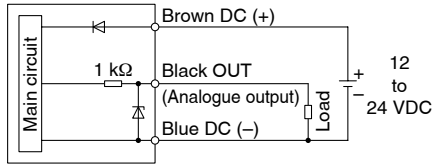
*1 Can detect differential pressure from 0 to 2 kPa within the range of -50 to 50 kPa.

PSE550 Series

Internal Circuits and Wiring Examples

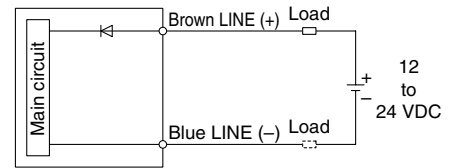
PSE550

Voltage output type
1 to 5 V
Output impedance
Approx. 1 k Ω



PSE550-28

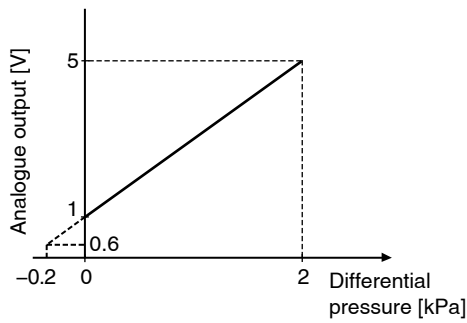
Current output type
4 to 20 mA
Allowable load impedance
500 Ω or less (at 24 VDC)
100 Ω or less (at 12 VDC)



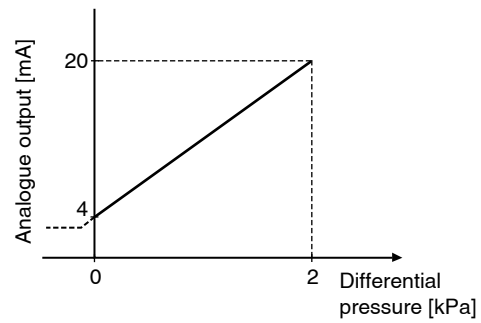
* Install the load either on the LINE (+) or LINE (-) side.

Analogue Output

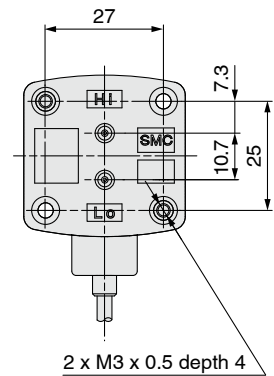
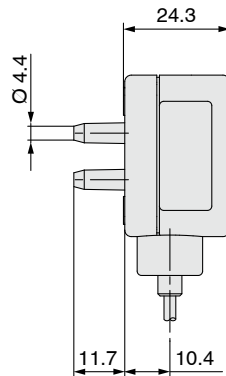
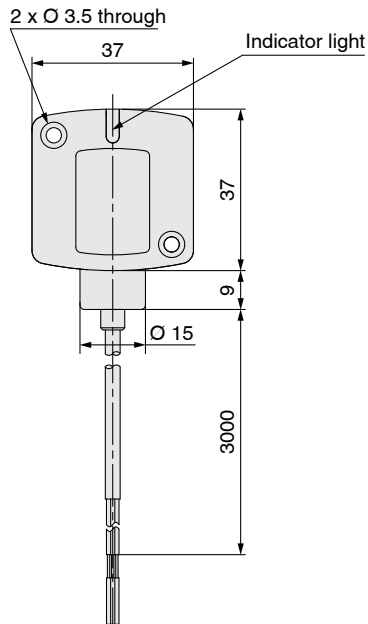
1 to 5 VDC



4 to 20 mA DC



Dimensions



With bracket

