Low Differential Pressure Sensor
Series PSE550



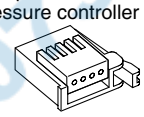
How to Order

PSE550 □ □ □

Output specifications

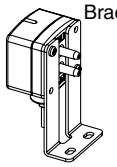
Nil	Voltage output type 1 to 5 V
28	Current output type 4 to 20 mA

Option 2 (Connector)

Nil	None
C2	Connector for PSE300 multiple channel pressure controller 1 pc. 

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.

Option 1 (Bracket)

Nil	None
A	Bracket 

Note) The bracket is unassembled in the factory, but is included with the shipment.

Option/Part No.

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-inflammable gas	
Power supply voltage		12 to 24 VDC ±10%, Ripple (p-p) 10% or less (With power supply polarity protection)	
Current consumption		15 mA or less	—
Output specification		Analog output 1 to 5 VDC (Within rated differential pressure range) Output impedance: Approx. 1 kΩ	Analog 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)		±1% F.S. or less	
Linearity		±0.5% F.S. or less	
Repeatability		±0.3% F.S. or less	
Indication light		Orange light is on (When energized)	
Environmental resistance	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 MΩ or more between live parts and case (at 500 VDC)	
	Vibration resistance	10 to 150 Hz at whichever is smaller of 1.5 mm amplitude or 100 m/s^2 acceleration, in X, Y, Z directions, for 2 hours each (De-energized)	
	Impact resistance	300 m/s^2 in X, Y, Z directions, 3 times each (De-energized)	
Temperature characteristics		±3% F.S. or less (Based on 25°C)	
Port size		ø4.8 (ø4.4 in the end) resin piping (Applicable to I.D. ø4 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.