# **Low Differential Pressure Sensor**

## PSE550 Series





ZSE20

ISE20 ZSE30 ISE30

ZSE40 ISE40

ZSE10

ISF10

ISE70

ZSE80

PS

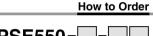
ISA3

ISA2

ISE35 PSE IS

ISG

ZSM1



PSE550-

### Output specifications

Nil Voltage output type 1 to 5 V

28 Current output type 4 to 20 mA

### Option 2 (Connector) Nil None Connector for pressure

sensor controller (1 pc.)

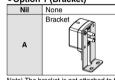
Note 1) Not applicable to the PSE200 series.

Note 2) The connector is not attached to the cable, 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 pressure sensor controller	ZS-28-C	1 pc.

#### Option 1 (Bracket)



Note) The bracket is not attached to the product, but is included with the shipment.

### Specifications

Refer to pages 11 and 12 for Pressure Switch Precautions. For details about the Specific Product Precautions, refer to the Operation Manual on the SMC website, http://www.smcworld.com Click here for details.

	Model	PSE550	PSE550-28	
Rate	d differential pressure range			
	ating pressure range	-50 to 50 kPa Note)		
Extension analog output range		-0.2 to 0 kPa	_	
Proof pressure		65	kPa	
	icable 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		Analog output: 1 to 5 VDC (within rated differential pressure range) 0.6 to 1 VDC (within extension analog output range) Output impedance: Approx. 1 $k\Omega$	Analog output: 4 to 20 mA DC (within rated differential pressure range) Maximum load impedance: $500~\Omega$ or less (at 24 VDC) $100~\Omega$ or less (at 12 VDC)	
Accur	acy (Operating temperature at 25°C)	±1% F.S. (within rated differential pressure range	), ±3% F.S. (within extension analog output range)	
Linea	arity	±0.5% F.S.		
Repeatability		±0.3% F.S.		
Indicator light		Orange light is turned on. (When energized)		
Operating humidity range Operating/Stored: 35 to 85% RH (No conder Withstand voltage 1000 VAC (in 50/60 Hz) for 1 minute between termin			11 10	
		Operating/Stored: 35 to 85% RH (No condensation)		
	Insulation resistance	50 M $\Omega$ or more (500 VDC measured via megohmmeter) between terminals and housing		
Tem	emperature characteristics ±3% F.S. (25°C reference)			
Port size		ø4.8 (ø4.4 in the end) resin piping		
		(Applicable to I.D. ø4 air tubing)		
Mater	ials of parts in contact with fluid	Resin pipe: Nylon, Piston area of sensor: Silicon		
Sensor cable		Oilproof heavy-duty vinyl cable (ellipse), 3 cores, 2.7 x 3.2, 3 m		
		Conductor area: 0.15 mm <sup>2</sup> , Insulator O.D.: 0.9 mm	Conductor area: 0.15 mm <sup>2</sup> , Insulator O.D.: 0.9 mm	
Weig	With sensor cable	75 g		
	Without sensor cable	35 g		
Stan	dards	CE, UL/CSA (E216656), RoHS		

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

