

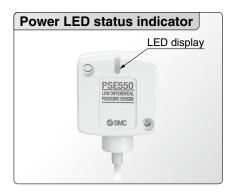
Low Differential Pressure Sensor

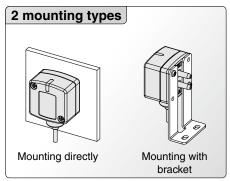
Series PSE550





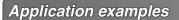
Series		Rated pressure range	
	0	1 kPa	2 kPa
PSE550	0		2 kPa

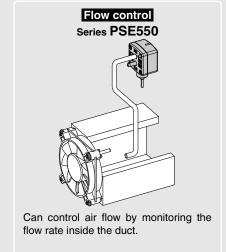


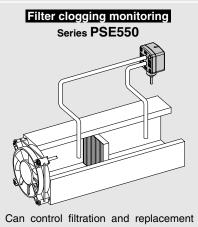


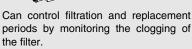


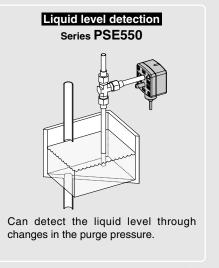












Applications

Low Differential Pressure Sensor

Series PSE550



How to Order





Output specifications

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

Option 2 (Connector)

Option 2 (Oomicotor)		
Nil	None	
	Connector for pressure sensor controller (1 pc.)	
C2	10000	

Note 1) Current output type cannot be connected to the PSE 200 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)

• Option 1 (Bracket)		
Nil	None	
Α	Bracket	

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

Specifications

For Pressure Switch Precautions and Specific Product Precautions, refer to "Handling Precautions for SMC Products" and the Operation Manual on SMC website.

Model		PSE550	PSE550-28	
Rate	d differential pressure range	ange 0 to 2 kPa		
Operating pressure range		−50 to 50 kPa ^{Note)}		
Extension analog output range		−0.2 to 0 kPa	-	
Proc	f pressure	65 l	kPa	
Applicable fluid Air/Non-corrosive gas/Non-flammable gas		s/Non-flammable gas		
Power supply voltage		12 to 24 VDC ±10%, Ripple (p-p) 10% or less (with reverse connection protection)		
Curr	ent 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 $\rm k\Omega$	Analog 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 analog output range)		
Line	arity	±0.5% F.S.		
Repeatability		±0.3% F.S.		
Indicator light		Orange light is turned on. (When energized)		
Ĭ	Enclosure	IP40		
Environment	Operating temperature range	Operating: 0 to 50°C, Stored: –20 to 70°C (No freezing or condensation)		
ē	Operating humidity range	Operating/Stored: 35 to 85% RH (No condensation)		
Ę	Withstand voltage	1000 VAC (in 50/60 Hz) for 1 minute between terminals and housing		
ш	Insulation resistance	50 $\mbox{M}\Omega$ or more (500 VDC measured via megohmmeter) between terminals and housing		
Tem	perature characteristics	±3% F.S. (25	°C reference)	
Port	size	,	end) resin piping	
Port size (Applicable to I.D. ø4 air tubing)		<u> </u>		
Mate	rials of parts in contact with fluid	uid 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 mm², Insulator O.D.: 0.9 mm	Oilproof heavy-duty vinyl cable (ellipse), 2 cores, 2.7 x 3.2, 3 m Conductor area: 0.15 mm², Insulator O.D.: 0.9 mm	
Waie	With sensor cable	75 g		
Weig	Without sensor cable	35 g		
Standards CE, UL/CSA (E216656), RoHS		216656), RoHS		

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

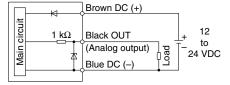


Series PSE550

Internal Circuit and Wiring Example

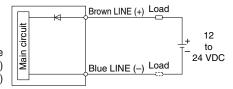
PSE550

Voltage output type 1 to 5 V Output impedance Approx. 1 $k\Omega$



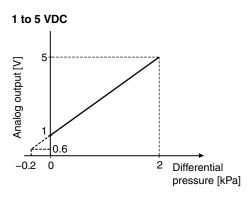
PSE550-28

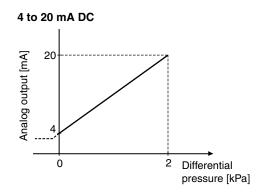
Current output type 4 to 20 mA Allowable load impedance 500 Ω or less (at 24 VDC) 100 Ω or less (at 12 VDC)



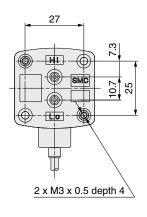
 \ast Install the load either on the LINE (+) or LINE (–) side.

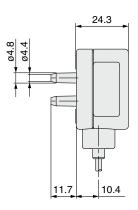
Analog Output

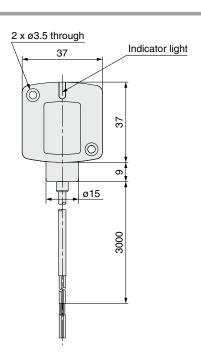




Dimensions







With bracket

