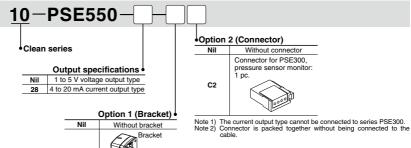




# Series 10-PSE550 Remote Type Pressure Sensor/For Low Differential Pressure

#### How to Order





Note) Brackets are packed together without being assembled.

# Options/Part No.

Description	Part no.	Note
Bracket	10-ZS-30-A	With M3 x 5L (2 pcs.)
Connector for PSE300 pressure sensor monitor	10-ZS-28-C	1 pc.

## **Specifications**

Refer to the SMC website for Pressure Switches Precautions (M-E03-3) and Specific Product Precautions (Operation Manual).

•				
Model		10-PSE550	10-PSE550-28	
Rated differential pressure range		0 to 2 kPa		
Operating pressure range		-50 to 50 kPa Note)		
Exte	nsion analog 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 power supply polarity protection)		
Current consumption		15 mA or less	_	
Output specification		Analog output: 1 to 5 VDC (within rated differential pressure range) 0.6 to 1 VDC (with extension analog output range) Output impedance: Approx. 1 $k\Omega$	Analog output: 4 to 20 mA DC (within rated differential pressure range) Allowable 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. (with rated pressure range), ±3%	F.S. (with extension analog output range)	
Linea	arity	ty ±0.5% F.S.		
Repeatability		±0.3% F.S.		
Indicator light		Orange light is turned on. (When energized)		
Ę	Enclosure	IP40		
Enclosure Operating temperature range Operating humidity range Withstand voltage Insulation resistance		e Operating: 0 to 50°C, Stored: –20 to 70°C (No freezing or condensation)		
		Operating/Stored: 35 to 85% RH (No condensation)		
₹ .	Withstand voltage		te between terminals and housing	
	Insulation resistance	50 $M\Omega$ or more (500 VDC measured via megohmmeter) between terminals and housing		
Temperature characteristics ±3% F.S. (25°C reference)				
Port size		ø4.8 (ø4.4 in the end) resin piping		
Wetted parts material		(Applicable to I.D. ø4 air tubing) 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	Conductor area: 0.15 mm², Insulator O.D.: 0.9 mm	
14/-1-	With sensor cable	75 g		
Weig	Without sensor cable	35 q		
Standards		CE, UL/CSA (E216656), RoHS		
Cleanliness class (ISO class)		Class 4		

Note) The differential pressure of 0 to 2 kPa can be detected within the range of -50 to 50 kPa.

# **⚠** Caution

This product is blown with air and double packed in a Class M3.5 (ISO Class 5) clean room.

#### **Internal Circuit**

#### 10-PSE550

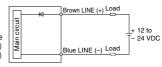
Voltage output type 1 to 5 V Output impedance Approx.1 kΩ



### 10-PSE550-28

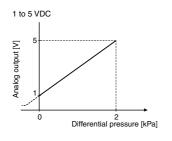
Current output type 4 to 20 mA

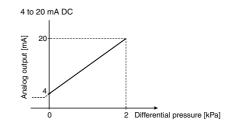
Allowable load impedance 500 Ω or less (at 24 VDC) 100 Ω or less (at 12 VDC)



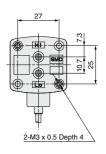
\* Install the load either on the LINE (+) or LINE (-) side.

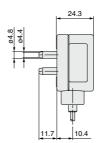
#### **Analog Output**

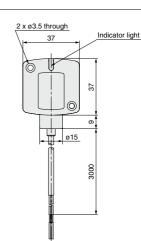




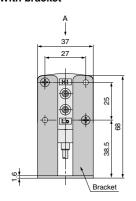
#### **Dimensions**

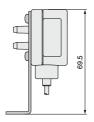


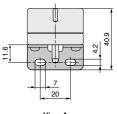




#### With bracket







View A

