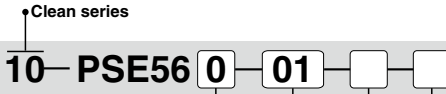


# Series 10-PSE560

Remote Type Pressure Sensor/For General Fluids

## How to Order



### Sensor range


0	For positive pressure (0 to 1 MPa)
1	For vacuum pressure (0 to -101 kPa)
3	For compound pressure (-100 to 100 kPa)
4	For positive pressure (0 to 500 kPa)

### Port size

01	R1/8 (with M5 female thread)
02	R1/4 (with M5 female thread)
C01	Rc1/8
N01	NPT1/8 (with M5 female thread)
N02	NPT1/4 (with M5 female thread)
A2	URJ1/4
B2	TSJ1/4

### Option (Connector)

Nil	C2
Without connector	Connector for pressure sensor monitor 1 pc.



Note 1) Current output type cannot be connected to PSE20□ and PSE30□.  
 Note 2) At the factory, the connector is not connected to the cable, but packed together with it for shipment.

### Output specifications

Nil	1 to 5 V voltage output type
28	4 to 20 mA current output type

### Option/Part No.

Description	Part no.	Note
Connector for 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-PSE560 (Positive pressure)	10-PSE561 (Vacuum)	10-PSE563 (Compound pressure)	10-PSE564 (Positive pressure)
Rated pressure range	0 to 1 MPa	0 to -101 kPa	-100 to 100 kPa	0 to 500 kPa
Extension analog output range	-0.1 to 0 MPa	10.1 to 0 kPa	—	-50 to 0 kPa
Proof pressure	1.5 MPa	500 kPa	500 kPa	750 kPa
Model	10-PSE56□-□		10-PSE56□-□-28	
Applicable fluid	Liquid or gas that will not corrode stainless steel 316L			
Power supply voltage	12 to 24 VDC ±10%, Ripple (p-p) 10% or less (with power supply polarity protection)			
Current consumption	10 mA or less		—	
Output specifications	Analog output: 1 to 5 V (within rated differential pressure range) 0.6 to 1 V (with extension analog output range) Output impedance: Approx. 1 kΩ		Analog output: 4 to 20 mA DC (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 at 25°C)	±1% F.S. (with rated pressure range), ±3% F.S. (with extension analog output range)			
Linearity	±0.5% F.S.			
Repeatability	±0.2% F.S.			
Power supply voltage effect	±0.3% F.S.			
Environment	Enclosure	IP65		
	Operating temperature range	Operating: -10 to 60°C, Stored: -20 to 70°C (No freezing or condensation)		
	Operating humidity range	Operating/Stored: 35 to 85% RH (No condensation)		
	Withstand voltage	250 VAC for 1 minute between terminals and housing		
Insulation resistance	50 MΩ or more (50 VDC measured via megohmmeter) between terminals and housing			
Temperature characteristics	±2% F.S. (0 to 50°C: Based on 25°C), ±3% F.S. (-10 to 60°C: Based on 25°C)			
Sensor cable	10-PSE56□-□: Oilproof heavy-duty vinyl cable with air tubing, 3 cores, ø5.1, 3 m, Conductor area: 0.2 mm <sup>2</sup> , Insulator O.D.: 1.12 mm 10-PSE56□-□-28: Oilproof heavy-duty vinyl cable with air tubing, 2 cores, ø5.1, 3 m, Conductor area: 0.2 mm <sup>2</sup> , Insulator O.D.: 1.12 mm			
Standards	CE, UL/CSA (E216656), RoHS			
Cleanliness class (ISO class)	Class 4			

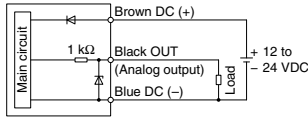
## Piping Specifications

Model	01	02	N01	N02	C01	A2	B2
Port size	R1/8 M5 x 0.8	R1/4 M5 x 0.8	NPT1/8 M5 x 0.8	NPT1/4 M5 x 0.8	Rc1/8	URJ1/4	TSJ1/4
Material	Case: C3604 + Nickel-plated, Piping port and pressure sensor: stainless steel SUS 316L						
Weight	Sensor cable included	193 g	200 g	194 g	201 g	187 g	193 g
	Sensor cable not included	101 g	108 g	102 g	109 g	95 g	101 g

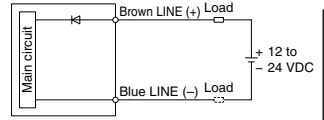
**Caution** This product is blown with air and double packed in a Class M3.5 (ISO Class 5) clean room.

### Internal Circuit

**10-PSE56□-□**  
Voltage output type  
1 to 5 V  
Output impedance  
Approx.1 kΩ



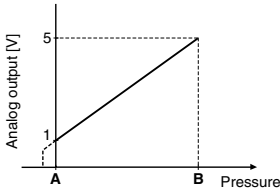
**10-PSE56□-□-28**  
Current output type  
4 to 20 mA  
Allowable load impedance  
500 Ω or less (at 24 VDC)  
100 Ω or less (at 12 VDC)



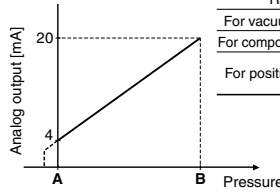
\* Install the load either on the LINE (+) or LINE (-) side.

### Analog Output

1 to 5 VDC



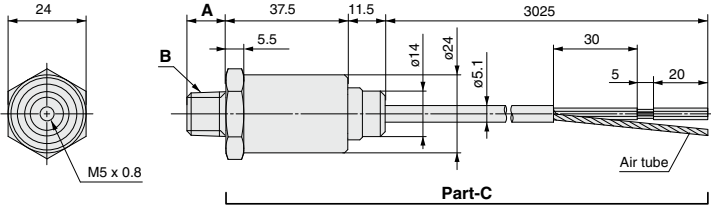
4 to 20 mA DC



Range	Rated pressure range	A	B
For vacuum pressure	0 to -101 kPa	0	-101 kPa
For compound pressure	-100 kPa to 100 kPa	-100 kPa	100 kPa
For positive pressure	0 to 1 MPa	0	1 MPa
	0 to 500 kPa	0	500 kPa

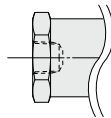
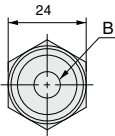
### Dimensions

**10-PSE56□-01 / 10-PSE56□-N01** / **10-PSE56□-N02**

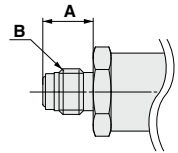
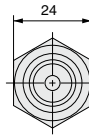


\* Dimensions and size of part C are all common.

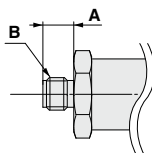
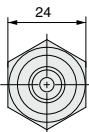
**10-PSE56□-C01**



**10-PSE56□-A2**



**10-PSE56□-B2**



Part no.	A	B
<b>10-PSE56□-01</b>	8.2	R1/8
<b>10-PSE56□-02</b>	12	R1/4
<b>10-PSE56□-N01</b>	9.2	NPT1/8
<b>10-PSE56□-N02</b>	12.2	NPT1/4
<b>10-PSE56□-C01</b>	—	Rc1/8
<b>10-PSE56□-A2</b>	15.5	URJ1/4
<b>10-PSE56□-B2</b>	9.5	TSJ1/4