

# Pressure Sensor Series PSE530



## How to Order

PSE53 0 - M5 - [ ]

### Sensor range

0	Positive pressure [0 to 1 MPa]
1	Vacuum [0 to -101 kPa]
2	Low pressure [0 to 101 kPa]
3	Compound pressure [-101 to 101 kPa]

### Port size

M5	M5 x 0.8
R06	ø6 reducer
R07	1/4 inch reducer

### Option

Nil	None
L	Sensor cable (3 m)
	Connector for pressure sensor controller (1 pc.) + Sensor cable (3 m)
C2L	Connector for pressure sensor controller (1 pc.) + Sensor cable (3 m)

Note) At the factory, the connector is not attached to the cable, but packed together with it for shipment.

## Option

When only optional parts are required, order using the part numbers listed below.

Description	Part no.	Note
Connector for pressure sensor controller	ZS-28-C	1 pc. per set
Sensor cable	ZS-26-F	Cable length: 3 m
Connector for pressure sensor controller + Sensor cable	ZS-26-J	Cable length: 3 m The connector is not attached to the cable at the time of shipment.

## Specifications

Model	PSE530 (Positive pressure)	PSE531 (Vacuum)	PSE532 (Low pressure)	PSE533 (Compound pressure)
Rated pressure range	0 to 1 MPa	0 to -101 kPa	0 to 101 kPa	-101 to 101 kPa
Extension analog output range	-0.1 to 0 MPa	10.1 to 0 kPa	-10.1 to 0 kPa	—
Proof pressure	1.5 MPa	500 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 (with no load)			
Output specification	Analog output 1 to 5 V (with rated pressure range), 0.6 to 1 V (with extension analog output range), Output impedance: Approx. 1 kΩ			
Accuracy (Ambient temperature at 25°C)	±2% F.S. or less (with rated pressure range), ±5% F.S. or less (with extension analog output range)			
Linearity	±1% F.S. or less			
Repeatability	±1% F.S. or less			
Power supply voltage effect	±1% F.S. or less based on the analog output at 18 V ranging from 12 to 24 VDC			
Environmental resistance	Enclosure	IP40		
	Temperature range	Operating: 0 to 50°C; Stored: -10 to 70°C (No freezing or condensation)		
	Withstand voltage	1000 VAC, 50/60Hz for 1 minute between live parts and case		
	Insulation resistance	5 MΩ or more between live parts and case (at 500 VDC Mega)		
	Vibration resistance	10 to 500 Hz 1.5 mm amplitude or 98 m/s <sup>2</sup> acceleration, X, Y, Z directions for 2 hours each (De-energized)		
Impact resistance	980 m/s <sup>2</sup> in X, Y, Z directions, 3 times each (De-energized)			
Temperature characteristics	±2% F.S. or less (Based on 25°C)			
Sensor cable/Option	Halogen-free heavy-duty cable, 3 cores, ø2.7, 3 m, Conductor area: 0.15 mm <sup>2</sup> , Insulator O.D.: 0.8 mm			
Standards	Compliant with CE marking			

## Piping Specifications

Model	M5	R06	R07
Port size	M5 x 0.8 male thread	ø6 reducer type	1/4 inch reducer type
Wetted parts material	Pressure sensor: Silicon, O-ring: NBR		
	Body: Stainless steel 304	Body: PBT	
Mass	With sensor cable (3 m)	41 g	38 g
	Without sensor cable	7 g	3.8 g

