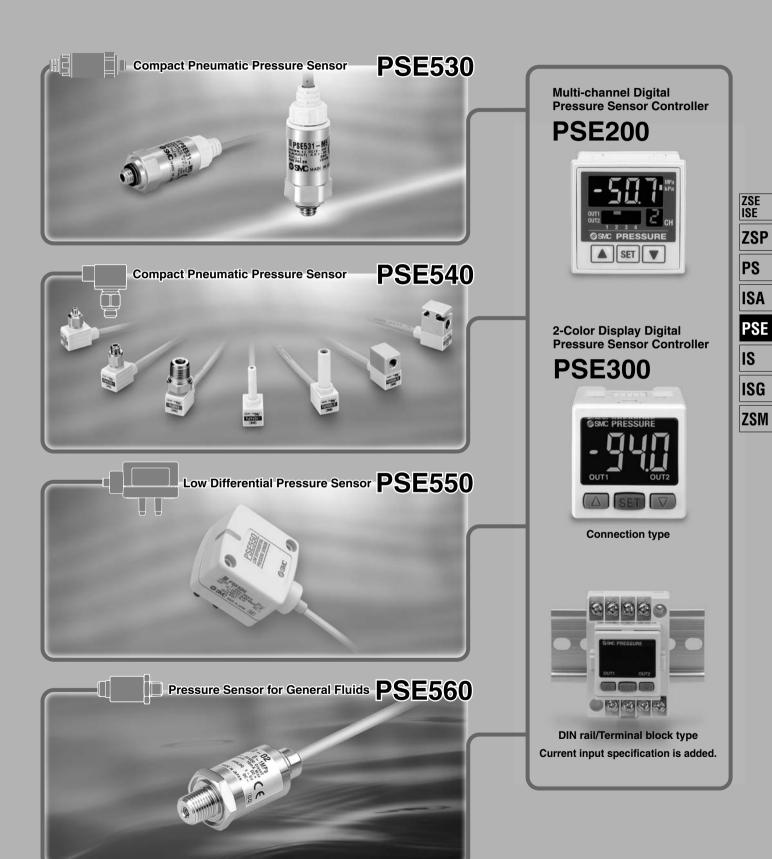
Remote Type Pressure Sensors/Pressure Sensor Controllers Series PSE



Compact Pneumatic Pressure Sensor

Series PSE540



How to Order Sensor range Accuracy ±2% F.S. Positive pressure [0 to 1 MPa] Nil Option (Connector) Negative pressure [0 to -101 kPa] ±1% F.S. None Compound pressure [-100 to 100 kPa] Connector for pressure sensor controller (1 pc.) PSE54 C2 Port size • МЗ M3 x 0.5 M5 female thread, IM5 Note) At the factory, the connector is not attached to the through type M5 M5 x 0.8 cable, but packed together with it for shipment. M5 female thread, 01 R 1/8 (with M5 female thread) IM5H through type N01 NPT 1/8 (with M5 female thread) (with mounting hole) Option R04 ø4 reducer **R06** ø6 reducer Description Part no. Note Connector for pressure sensor controller ZS-28-C 1 pc.

Model **PSE540 PSE541 PSE543** -100 to 100 kPa Rated pressure range 0 to 1 MPa 0 to -101 kPa Extension analog output range -0.1 to 0 MPa 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 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 **Output specification** PSE54□: ±2% F.S. or less (with rated pressure range), ±5% F.S. or less (with extension analog output range) **Accuracy (Ambient temperature** at 25°C) PSE54 A: 1% F.S. or less (with rated pressure range), ±3% F.S. or less (with extension analog output range) Linearity ±0.7% F.S. or less ±0.4% F.S. or less ±0.2% F.S. or less Repeatability Power supply voltage effect ±0.8% F.S. or less **Enclosure** IP40 Operating temperature range Operating: 0 to 50°C, Stored: -20 to 70°C (No freezing or condensation) Environmental resistance Operating/Stored: 35 to 85% RH (No condensation) Operating humidity range Withstand voltage 1000 VAC, 50/60 Hz for 1 minute between live parts and case Insulation resistance 50 M Ω or more between live parts and case (at 500 VDC Mega) 10 to 500 Hz at whichever is smaller of 1.5 mm amplitude or 98 m/s² acceleration, Vibration resistance in X, Y, Z directions, for 2 hours each (De-energized) 980 m/s² in X, Y, Z directions, 3 times each (De-energized) Impact resistance **Temperature characteristics** ±2% F.S. or less (Based on 25°C) **Standards** Compliant with CE marking, UL (CSA)

Piping Specifications

Specifications

i iping opecinications									
Model		М3	M5	01	N01	R04	R06	IM5	IM5H
Port size		M3 x 0.5	M5 x 0.8	R 1/8 M5 x 0.8	NPT 1/8 M5 x 0.8	ø4 reducer	ø6 reducer	M5 female thread, through type	M5 female thread, through type (with mounting hole)
Material	Case	Resin case: PBT Fitting: Stainless steel 303		Resin case: PBT Fitting: C3604BD		PBT		Resin case: PBT Fitting: A6063S-T5	
	Pressure sensing section	Pressure sensor: Silicon, O-ring: NBR							
Sensor cable		Oil proof 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							
Mass	With sensor cable	42.4 g	42.7 g	49.	3 g	41.4 g	41.6 g	43.3 g	44.1 g
	Without sensor cable	2.9 g	3.2 g	9.	8 g	1.9 g	2.1 g	3.8 g	4.6 g

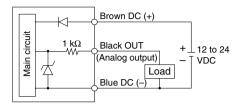


Compact Pressure Sensor for Pneumatics Series PSE540

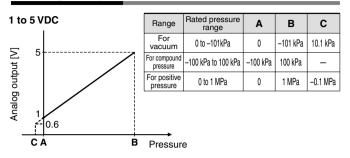
Internal Circuit

PSE54□

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

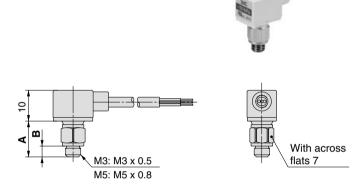


Analog Output



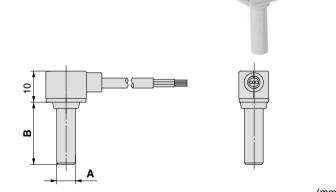
Dimensions





		(mm)
	PSE54□-M3	PSE54□-M5
Α	10.8	11.5
В	3	3.5

PSE54□-R04



		(
	PSE54□-R04	PSE54□-R06		
Α	ø4	ø6		
В	18	20		

ZSE ISE

ZSP

PS

ISA

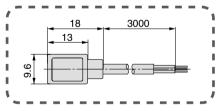
PSE

IS

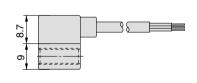
ISG

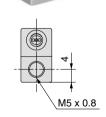
ZSM

Common Dimensions

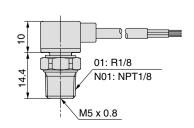


PSE54□-IM5

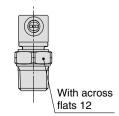




PSE54□-01 N01







PSE54□-IM5H

