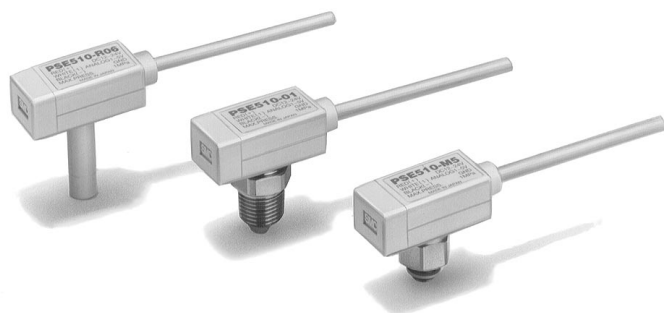


Pressure Sensor For General Pneumatic Applications Series *PSE 510*



How to Order

PSE51 — 															
Operating pressure	Porting														
<table border="1"> <tr><td>0</td><td>High pressure (0 to 1 MPa)</td></tr> <tr><td>1</td><td>Vacuum (−101 to 0 kPa)</td></tr> <tr><td>2</td><td>Low pressure (0 to 100 kPa)</td></tr> </table>	0	High pressure (0 to 1 MPa)	1	Vacuum (−101 to 0 kPa)	2	Low pressure (0 to 100 kPa)	<table border="1"> <tr><td>R06</td><td>ø6 reducer</td></tr> <tr><td>M5</td><td>M5 X 0.8</td></tr> <tr><td>01</td><td>R(PT) 1/8, M5 X 0.8</td></tr> <tr><td>T01</td><td>NPTF 1/8, M5 X 0.8</td></tr> </table>	R06	ø6 reducer	M5	M5 X 0.8	01	R(PT) 1/8, M5 X 0.8	T01	NPTF 1/8, M5 X 0.8
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Sensor Specifications/General Pneumatic Applications

Model		PSE510-□	PSE511-□	PSE512-□
Operating pressure range		0 to 1 MPa	−101 to 0kPa	0 to 100kPa
Max. pressure		1MPa	200kPa	
Fluid		Air, Non corrosive gases		
Output specification		Analog (1 to 5V, Load impedance: 10kΩ or more)		
Supply voltage		12 to 24V DC (Ripple ± 10% or less)		
Current consumption		10mA or less		
Operating temperature range		0 to 50°C (No condensation)		
Temperature characteristics (25°C standard)	25 ± 10°C	± 1%F.S. or less		
	0 to 50°C	± 1.5% F.S. or less		
Repeatability		± 0.3% F.S. or less		
Voltage resistance		Between external terminal and housing 1000V AC, 50/60Hz for 1 min.		
Insulation resistance		Between external terminal and housing 2MΩ (500V DC by megameter)		
Vibration resistance		10 to 500Hz Pulse width: 1.5mm or acceleration 98 m/s ² (at the smaller vibration) to X, Y, Z direction (2 hours)		
Shock resistance		980 m/s ² to X, Y, Z direction (3 times for each direction)		
Protective construction		IP40		

Note) When pressure sensor PSE510 series is connected to controller PSE100 series, display range is as series PSE100.

Process Connection

Model		R06	M5	01	T01
Material	Housing	Resin housing: PBT	Resin housing: PBT Fitting: Stainless steel (SUS303)	Resin housing: PBT Fitting: C3604BD (Electroless nickel plated)	Resin housing: PBT Fitting: C3604BD (Electroless nickel plated)
	Pressure sensor area	Pressure sensor: Silicon, O ring: NBR			
Lead wire		Oil proof vinyl insulation ø2.55, 0.15mm ² X 3 wire (Brown, Blue, Black) 3000mm			
Port size		ø6 reducer	M5 X 0.8	R(PT) 1/8, M5 X 0.8	NPTF1/8, M5 X 0.8
Weight (Excluding lead wire)		Approx. 7g	Approx. 10g	Approx. 12g	