

Specifications

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

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	Model	10-PSE530 (Positive pressure)	10-PSE531 (Vacuum)	10-PSE532 (Low pressure)	10-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	a 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. (with rated pressure range), ±5% F.S. (with extension analog output range)				
Linearity		±1% F.S.				
Repeatability		±1% F.S.				
Power supply voltage effect		±1% F.S. based on the analog output at 18 V ranging from 12 to 24 VDC				
Environment	Enclosure	IP40				
	Temperature range	Operating: 0 to 50°C; Stored: -10 to 70°C (No freezing or condensation)				
	Withstand voltage	1000 VAC (in 50/60 Hz) for 1 minute between terminals and housing				
ᇤ	Insulation resistance	$5~{\rm M}\Omega$ or more (500 VDC measured via megohmmeter) between terminals and housing				
Temperature characteristics		±2% F.S. (25°C reference)				
Sensor cable/Option		Halogen-free heavy-duty cable, 3 cores, ø2.7, 3 m, Conductor area: 0.15 mm², Insulator O.D.: 0.8 mm				
Standards		CE, RoHS				
Cleanliness class (ISO class)		Class 4				

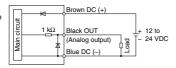
Piping Specifications

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

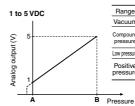
⚠ Caution

Internal Circuit

10-PSE53□ Voltage output type 1 to 5 V Output impedance Approx.1 $k\Omega$



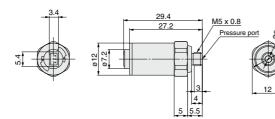
Analog Output



Range	Rated pressure range	Α	В
Vacuum	0 to -101 kPa	0	-101 kPa
Compound pressure	-101 kPa to 101 kPa	-101 kPa	101 kPa
Low pressure	0 to 101 kPa	0	101 kPa
Positive	0 to 1 MPa	0	1 MPa
pressure	0 to 500 kPa	0	500 kPa

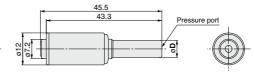
Dimensions

10-PSE53 □-M5



10-PSE53□-R06 **R07**





Model Applicable fitting size (D) 10-PSE53□-R06 6 10-PSE53□-R07 1/4"

With sensor cable



