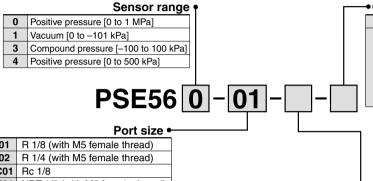
Pressure Sensor For General Fluids

Series PSE560



How to Order



Option (Connector) Nil None Connector for pressure sensor controller (1 pc.) C2

Note 1) Current output type cannot be connected to the PSE200 series.

Note 2) At the factory, the connector is not attached to the cable, but packed together with it for shipment.

01	R 1/8 (with M5 female thread)			
02	R 1/4 (with M5 female thread)			
C01	Rc 1/8			
N01	NPT 1/8 (with M5 female thread)			
N02	NPT 1/4 (with M5 female thread)			
A2	URJ 1/4			
B2	TSJ 1/4			

Output specifications Voltage output type 1 to 5 V 28 Current output type 4 to 20 mA

Option

Description	Part no.	Note
Connector for pressure sensor controller	ZS-28-C	1 pc.
Adapter with throttle Rc 1/4	ZS-31-X175	1 pc.
Adapter with throttle NPT 1/4	ZS-31-X186	1 pc.
Adapter with throttle Rc 1/8	ZS-31-X188	1 pc.
Adapter with throttle NPT 1/8	ZS-31-X189	1 pc.

Specifications

Model	PSE560 (Positive pressure)	PSE561 (Vacuum)	PSE563 (Compound pressure)	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		PSE56□-□	PSE56□-□-28			
Applicable fluid		Liquid or gas that will not corrode stainless steel 316L				
Powe	r supply voltage	12 to 24 VDC ±10%, Ripple (p-p) 10% or l	less (with power supply polarity protection)			
Current consumption		10 mA or less	_			
Output specification		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 $k\Omega$	Analog output: 4 to 20 mADC (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. or less (with rated pressure range), ±3% F.S. or less (with extension analog output range)				
Linearity		±0.5% F.S. or less				
Repe	atability	±0.2% F.S. or less				
Power supply voltage effect		±0.3% F.S. or less				
Enclosure		IP	65			
Operating temperature range		Operating: -10 to 60°C, Stored: -20 to	to 70°C (No freezing or condensation)			
င်း စွ Operating humidity range		Operating/Stored: 35 to 8	5% RH (No condensation)			
ane	Withstand voltage	250 VAC for 1 minute between live parts and case				
ପୂର୍ଣ୍ଣ Insulation resistance		$50~\text{M}\Omega$ or more between live parts and case (at 50 VDC Mega)				
Operating humidity range Withstand voltage Insulation resistance Vibration resistance		10 to 150 Hz at whichever is smaller of 1.5 mm amplitude or 20 m/s² acceleration, in X, Y, Z directions, for 2 hours each (De-energized)				
Impact resistance		500 m/s ² in X, Y, Z directions, 3 times each (De-energized)				
Temperature characteristics		±2% F.S. or less (0 to 50°C: Based on 25°C), ±3% F.S. or less (-10 to 60°C: Based on 25°C)				
Standards		Compliant with CE marking, UL (CSA)				

Piping Specifications

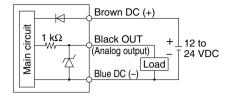
Model		01	02	N01	N02	C01	A2	B2
Port size		R 1/8	R 1/4	NPT 1/8	NPT 1/4	Rc 1/8 URJ 1/4		TSJ 1/4
		M5 x 0.8	M5 x 0.8	M5 x 0.8	M5 x 0.8	NC 1/0	UHJ 1/4	133 1/4
Material		Case: C3604 + nickel plated, Piping port/pressure sensor: Stainless steel 316L						
Sensor cable		PSE56□-□: Oil proof heavy-duty vinyl cable with air tube, 3 cores, ø5.1, 3 m, Conductor area: 0.2 mm², Insulator O.D.: 1.12 mm						
		PSE56□-□-28: O	il proof heavy-duty	vinyl cable with air	tube, 2 cores, ø5.1	, 3 m, Conductor ar	rea: 0.2 mm², Insula	ator O.D.: 1.12 mm
Mass	With sensor cable	193 g	200 g	194 g	201 g	187 g	203 g	193 g
IVIASS	Without sensor cable	101 g	108 g	102 g	109 g	95 g	111 g	101 g



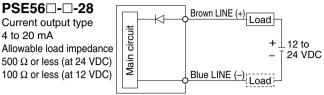
Pressure Sensor for General Fluids Series PSE560

Internal Circuit

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

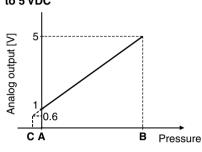


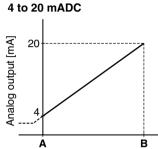
PSE56□-□-28 Current output type 4 to 20 mA Allowable load impedance 500 Ω or less (at 24 VDC)



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

1 to 5 VDC



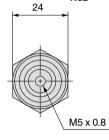


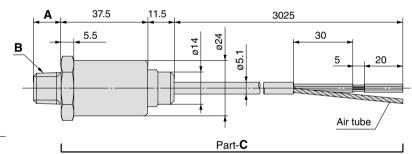
Range	Rated pressure range	Α	В	С
For vacuum	0 to -101 kPa	0	-101 kPa	10.1 kPa
For compound pressure	-100 kPa to 100 kPa	–100 kPa	100 kPa	_
For positive	0 to 1 MPa	0	1 MPa	-0.1 MPa
pressure	0 to 500 kPa	0	500 kPa	-50 kPa

Pressure

Dimensions

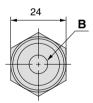
 $PSE56 \Box - {}^{01}_{02}, PSE56 \Box - {}^{N01}_{N02}$





* The dimensions of part **C** are common to all PSE56□ models.

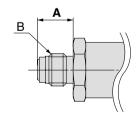
PSE56□-C01





PSE56□-A2





ZSE ISE

ZSP

PS

ISA

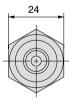
PSE

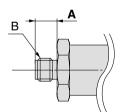
IS

ISG

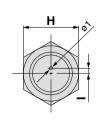
ZSM

PSE56□-B2





ZS-31-X□□□ _D
E
M5 x 0.8
F



		(mm)
Model	Α	В
PSE56□-01	8.2	R 1/8
PSE56□-02	12	R 1/4
PSE56□-N01	9.2	NPT 1/8
PSE56□-N02	12.2	NPT 1/4
PSE56□-C01	_	Rc 1/8
PSE56□-A2	15.5	URJ 1/4
PSE56□-B2	9.5	TSJ 1/4

						(mm)
Model	D	E	F	G	Н	I
ZS-31-X188	20	9	R 1/8	Rc 1/8	14	1.5
ZS-31-X189	20	9	NPT 1/8	NPT 1/8	14	1.5
ZS-31-X175	29	13	R 1/4	Rc 1/4	17	1.6
ZS-31-X186	29	13	NPT 1/4	NPT 1/4	17	1.6