

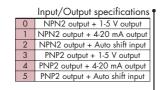
Controller

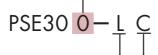
Series PSE300

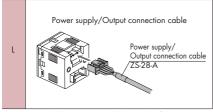
Features

- Display unit for remote sensors
- Red / Green dual colour LCD display
- Two independent digital outputs
- Programmable response time and auto-setting function
- Optional analogue output or autoshift input
- Suitable for all SMC remote sensors with 1-5v output
- Power output for sensor to simplify wiring
- Can also display imperial units
- Panel mounting kit and brackets available, compact design to reduce panel sizes
- Keys can be locked to prevent accidental adjustment

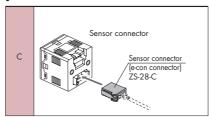
How to Order





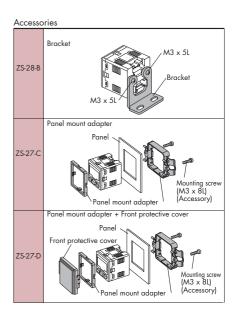


Note) The cable is unassembled in the factory, but is included with the shipment.



Note) The connector is unassembled in the factory, but is included with the shipment.







Specifications

Conforms to CE marking and UL (CSA) standards.

	Model		PSE30□					
	Set (differential) pressure range		-101 to 101 kPa	10 to -101 kPa	-10 to 100 kPa	-0.1 to 1 MPa	-50 to 500 kPa	-0.2 to 2 kPa
		ssure range Note 1)	For compound pressure	For vacuum	For low pressure	For positiv	re pressure	For low difference pressure
	Rated (differential) pressure range		-100 to 100 kPa	0 to -101 kPa	0 to 100 kPa	0 to 1 MPa	0 to 500 kPa	0 to 2 kPa
Power supply voltage		ver supply voltage	12 to 24 VDC, Ripple (p-p) 10% or less (With power supply polarity protection)					
Current consumption		rent consumption	50 mA or less (Current consumption for sensor is not included.)					
	Sensor input		1 to 5 VDC (Input impedance: 1 MΩ)					
		No. of inputs	1 input					
		Input protection	With excess voltage protection (Up to 26.4 V)					
Hysteresis		teresis	Hysterisis mode: Variable, Window comparator mode: Variable					
Switch output		tch output	NPN or PNP open collector output: 2 outputs					
		Maximum load current	80 mA					
		Maximum load voltage	30 VDC (at NPN output)					
		Residual voltage	1 V or less (With load current of 80 mA)					
		Output protection	With short circuit protection					
Response ti		oonse time	1 ms or less					
Anti-chattering function		Anti-chattering function	Response time settings for anti-chattering function: 20 ms, 160 ms, 640 ms, 1280 ms					
Rep		eatability			±0.1% F.	S. or less		
Ī		Voltage output Note 2)	Output voltage: 1 to 5 V (Within rated pressure range (Differential pressure)), Output impedance: Approx. 1 kΩ					
	put	Volidge output Hale 2/	Linearity: ±0.2% F.S. (Not including sensor accuracy), Response speed: 150 ms or less					
	Analogue output	Accuracy (To display value) (25°C)	$\pm 0.6\%$ F.S. or less $\pm 1.0\%$ F.S. or less $\pm 1.5\%$ F.S. or less					
	gue		Output current: 4 to 20 mA (Within rated pressure range)					
	9	Current output Note 2)	Maximum load impedance: 300 Ω (at 12 VDC), 600 Ω (at 24 VDC), Minimum load impedance: 50 Ω					
	4		Linearity: ±0.2% F.S. (Not including sensor accuracy), Response time: 150 ms or less					
		Accuracy (To display value) (25°C)		±1.0%	F.S. or less		±1.5% F.S. or less	±2.0% F.S. or less
		play accuracy	±0.5% F.S.		+0	5% F S +1 digit or	loss	
	(Ambient temperature of 25°C)			± 2 digits or less $\pm 0.5\%$ F.S. ± 1 digit or less				
	Disp	,	3 + 1/2 digit, 7 segment indicator, 2-color display (Red/Green), Sampling frequency: 5 times/sec					
		cator light	OUT1: Lights up when ON (Green), OUT2: Lights up when ON (Red)					
ļ	Auto	o shift input Note 2)	Non-voltage input (Reed or Solid state), Low level input: 5 ms or more, Low level: 0.4 V or less					
	e l	Enclosure	IP40					
	Resistance	Operating temperature range	Operating: 0 to 50°C, Stored: –10 to 60°C (No freezing or condensation)					
	əsisl	Operating humidity range	Operating/Stored: 35 to 85% RH (No condensation)					
	Re	Withstand voltage	1000 VAC for 1 minute between live parts and case					
		Insulation resistance	50 MΩ or more between live parts and case (at 500 VDC Mega)					
Temperature characteristics		•	±0.5% F.S. or less (Based on 25°C)					
Connection			Power supply/Output connection: 5P connector, Sensor connection: 4P connector					
		terial	Front case: PBT, Rear case: PBT					
With power supply/output connection cable Without power supply/output connection cable			85 g					
		Without power supply/output connection cable	30 g					
- 1	NI (1) D							

Note 1) Pressure range can be selected during initial setting.

Note 2) Auto shift function is not available when analogue output option is selected.

Also, analog output option is not available when auto shift function is selected.

Note 3) The following units can be selected:

For vacuum & compound pressure:

For positive pressure & low pressure:

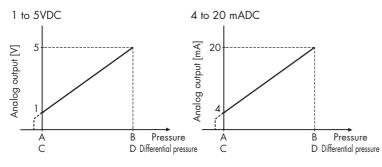
For low differential pressure:

KPa·kgf/cm²-bar·psi

MPa·kPa·kgf/cm²-bar·psi

KPa·mmH2O

Analog Output



Range	Rated pressure range	Α	В		
For vacuum	0 to -101 kPa	0	–101 kPa		
For compound pressure	–100kPa to 100 kPa	–100 kPa	100 kPa		
For positive	0 to 1 MPa	0	1 MPa		
pressure	0 to 500 kPa	0	500 kPa		
D	D t I liff to I		_		

Range	Rated differential pressure range	С	D
For low differential pressure	0 to 2 kPa	0	2 kPa

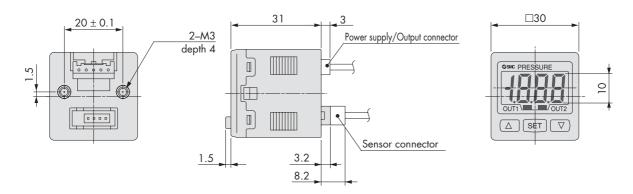




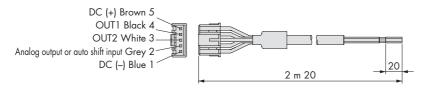




Dimensions

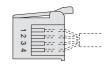


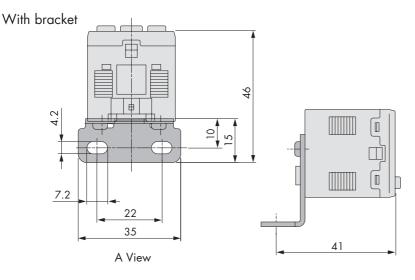
Power supply/Output connection cable (ZS-28-A)

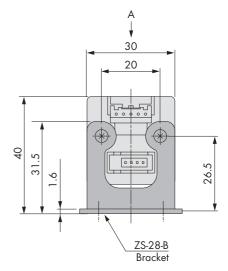


Sensor connector

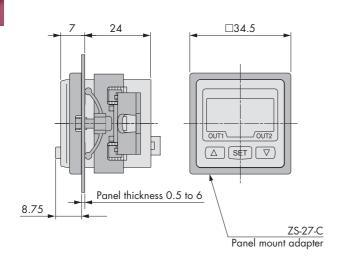
PIN no.	Terminal		
1	DC (+)		
2	N.C.		
3	DC (-)		
4	IN (1 to 5 V)		



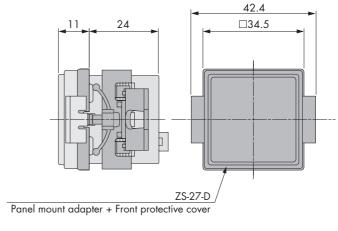




With panel mount adapter



With panel mount adapter + Front protective cover

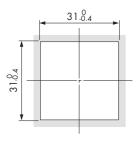




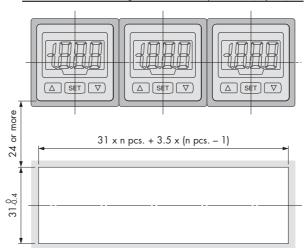
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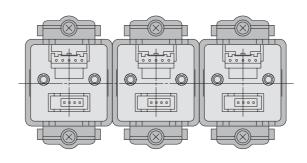
Panel cutout dimensions

Mount of single unit



Horizontal stacking mount of multiple units (n pcs.)





Vertical stacking mount of multiple units (n pcs.)

