

Multi-channel Controller

Series *PSE200*

How to Order

PSE20 **0** — **M**

Input/Output specifications

0	NPN 5 outputs + Auto shift input
1	PNP 5 outputs + Auto shift input

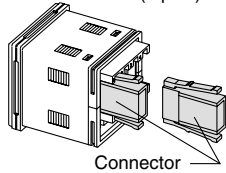
Unit specifications

Nil	With unit display switching function
M	Fixed SI unit <small>Note)</small>

Note) Fixed unit
For vacuum low pressure & compound pressure: kPa
For high pressure: MPa

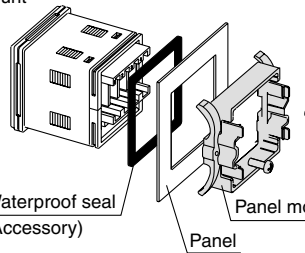
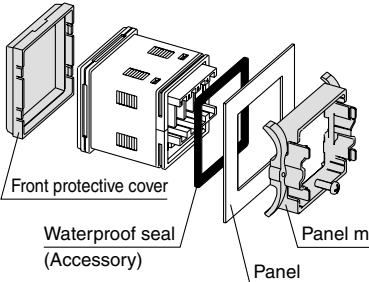
Option 2

Nil	Without connector
4C	Sensor connector (4 pcs.)



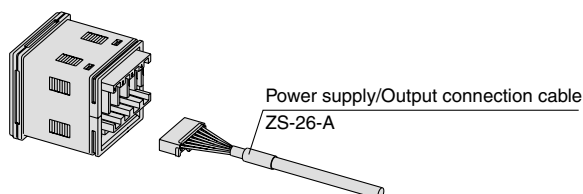
Connector

Option 1

Nil	Without panel mount/protective cover
A	Panel mount  Waterproof seal (Accessory) Panel mount adapter Panel Mounting screws (M3 x 8L) (Accessory)
B	Front protective cover + Panel mount  Front protective cover Waterproof seal (Accessory) Panel mount adapter Panel Mounting screws (M3 x 8L) (Accessory)

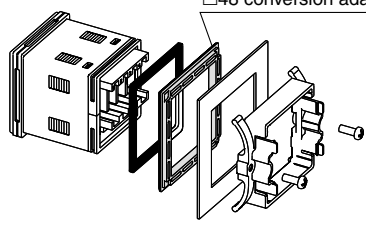
Accessory: Power supply/Output connection cable (2 m)

Included with the controller.



Option

When only optional parts are required, order with the part numbers listed below.

Description	Part no.	Note
Panel mount adapter	ZS-26-B	Waterproof seal, screws included
Front protective cover	ZS-26-01	
Front protective cover + Panel mount adapter	ZS-26-C	Waterproof seal, screws included
<input type="checkbox"/> 48 conversion adapter This adapter is used to mount Series PSE200 on the panel fitting of Series PS100.	ZS-26-D  <input type="checkbox"/> 48 conversion adapter Order panel mount adapter separately.	
Connector	ZS-26-E (4 pcs. per set)	



Specifications

Model		PSE200	PSE201		
Output specification		NPN open collector		PNP open collector	
Power supply voltage		12 to 24 VDC ±10%, Ripple (p-p) 10% or less (With power supply polarity protection)			
Current consumption		55 mA or less (Current consumption for sensor is not included.)			
Power supply voltage for sensor		[Power supply voltage] −1.5 V			
Power supply current for sensor ^{Note 1)}		40 mA maximum (100 mA maximum for the total power supply current when 4 sensors are input.)			
Sensor input	1 to 5 VDC (Input impedance: Approx. 800 kΩ)				
	No. of inputs	4 inputs			
	Input protection	With excess voltage protection (Up to 26.4 V)			
Hysteresis	Hysteresis mode	Variable			
	Window comparator mode	3-digit fixed			
Switch output	No. of outputs	5 outputs (CH1: 2 outputs, CH2 to 4: 1 output)			
	Maximum load current	80 mA			
	Maximum load voltage	30 VDC (With NPN)			
	Residual voltage	1 V or less (With load current of 80 mA)			
	Output protection	With short circuit protection			
Response time	5 ms or less				
	Anti-chattering function	With anti-chattering function, Response time selection: 20 ms, 160 ms, 640 ms			
Repeatability		±0.1% F.S. or less			
Setting/Display accuracy		±0.5% F.S. ±1 digit or less (at ambient temperature of 25° ±3°C)			
Display		For measured value display: 4-digit, 7-segment indicator, Display color: Yellow For channel display: 1-digit, 7-segment indicator, Display color: Red			
Indication light		Red (Lights up when output is ON.)			
Auto shift input		Non-voltage input (Reed or Solid state), Input 10 ms or more, Independently controllable auto shift function ON/OFF			
Auto identification function ^{Note 2)}		With auto identification function			
Resistance	Enclosure	Front face: IP65, Other: IP40			
	Ambient temperature range	Operating: 0° to 50°C, Stored: −10° to 60°C (No freezing or condensation)			
	Ambient humidity range	Operating/Stored: 35 to 85% RH (No condensation)			
	Vibration resistance	10 to 500 Hz at whichever is smaller of 1.5 mm amplitude or 98 m/s² acceleration, in X, Y, Z directions for 2 hrs. each (De-energized)			
	Impact resistance	980 m/s² in X, Y, Z directions, 3 times each (De-energized)			
Temperature characteristics		±0.5% F.S. or less based on 25°C			
Connection		Power supply/Output connection: 8P connector, Sensor connection: 4P connector			
Material		Enclosure: PBT; Display: Transparent nylon; Back rubber cover: CR			
Weight		Approx. 60 g (Power supply/output connecting cable not included)			
Applicable pressure sensor		PSE530 (For high pressure)	PSE531 (For vacuum)	PSE532 (For low pressure)	PSE533 (For compound pressure)
Regulating pressure range		−0.1 to 1 MPa	10 to −101 kPa	−10 to 101 kPa	−101 to 101 kPa
Set pressure resolution ^{Note 3)}	kPa	—	0.1	0.1	0.1
	MPa	0.001	—	—	—
	kgf/cm²	0.01	0.001	0.001	0.001
	bar	0.01	0.001	0.001	0.001
	psi	0.1	0.01	0.01	0.02
	mmHg	—	1	—	1
	InHg	—	0.1	—	0.1

Note 1) If the Vcc and 0 V side of the sensor input connector are short circuited, the inside of the controller will be damaged.

Note 2) Auto identification function comes with "Series PSE53□" pressure sensor only. Other SMC series (PSE510 and PSE520) are not equipped with this function.

Note 3) For controllers with unit display switching function. (Either of SI units, [kPa] or [MPa], will be the set unit for those controllers without unit switching function.)

ZSE□
ISE□

PSE

ZSE3
I

PS

ZSE¹_I2

ZSP

ISA2

IS□

ZSM

PF2□

IF□

Data