

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

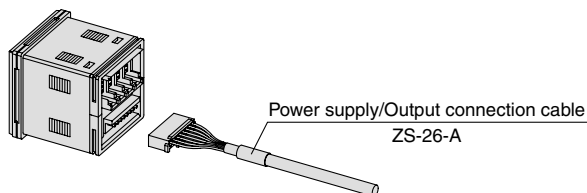
Unit specifications

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

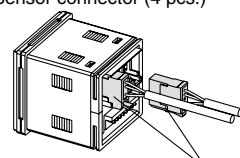
Note) Fixed unit
For vacuum, low pressure and compound pressure: kPa
For positive pressure: MPa

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

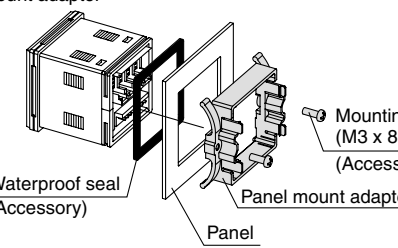
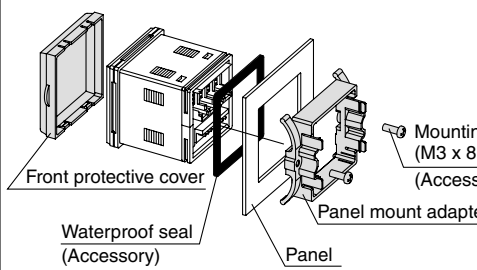
Included with the controller.



Option 2

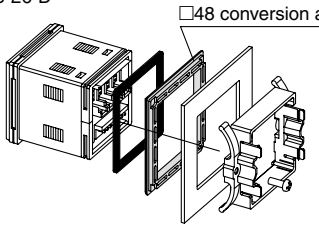
Nil	None
4C	Sensor connector (4 pcs.)  Connector

Option 1

Nil	None
A	Panel mount adapter  Waterproof seal (Accessory) Panel mount adapter Panel Mounting screw (M3 x 8L) (Accessory)
B	Front protective cover + Panel mount adapter  Front protective cover Waterproof seal (Accessory) Panel mount adapter Panel Mounting screw (M3 x 8L) (Accessory)

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 + Panel mount adapter	ZS-26-C	Waterproof seal, screws included
<input type="checkbox"/> 48 conversion adapter * This adapter is used to mount the PSE200 series on the panel fitting of the PSE100 series.	ZS-26-D  Order panel mount adapter separately.	
Front protective cover	ZS-26-01	
Sensor connector	ZS-28-C (1 pc. per set)	

Series PSE200

Specifications

Model	PSE200	PSE201
Power supply voltage	12 to 24 VDC \pm 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 k Ω)	
Number of inputs	4 inputs	
Input protection	With excess voltage protection (Up to 26.4 V)	
Switch output	NPN open collector output: 5 outputs (Sensor input CH1: 2 outputs, CH2 to 4: 1 output)	PNP open collector output: 5 outputs (Sensor input CH1: 2 outputs, CH2 to 4: 1 output)
Maximum load current	80 mA	
Maximum load voltage	30 V	—
Residual voltage	1 V or less (with load current of 80 mA)	
Response time	5 ms or less (Response time selections with anti-chattering function: 20 ms, 160 ms, 640 ms)	
Short circuit protection	With short circuit protection function	
Repeatability	$\pm 0.1\%$ F.S. ± 1 digit or less	
Hysteresis	Hysteresis mode	Adjustable (can be set from 0)
Window comparator mode	Fixed (3 digits)	
Display	For measured value display: 4-digit, 7-segment indicator, Display color: Orange (Sampling frequency: 4 times/sec) For channel display: 1-digit, 7-segment indicator, Display color: Red	
Display accuracy (Operating temperature at 25°C)	$\pm 0.5\%$ F.S. ± 1 digit or less	
Indication light	Red (Lights up when output is turned 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	With auto-identification function ^{Note 2)}	
Enclosure	Front face: IP65 (when panel-mounted), Others: 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/s ² acceleration, in X, Y, Z directions for 2 hrs. each (De-energized)	
Impact resistance	980 m/s ² in X, Y, Z directions, 3 times each (De-energized)	
Temperature characteristics	$\pm 0.5\%$ F.S. or less (Based on 25°C)	
Connection	Power supply/Output connection: 8P connector, Sensor connection: e-con connector	
Material	Housing: PBT; Display: Transparent nylon; Back rubber cover: CR	
Mass	Approx. 60 g (Excluding power supply/output cable)	
Power supply/Output connection cable	Oil proof heavy-duty vinyl cable, 8 cores, $\phi 4.8$, 2 m, Conductor area: 0.15 mm ² , Insulator O.D.: 0.9 mm	
Standards	Compliant with CE marking	

Pressure range	For compound pressure	For vacuum	For low pressure	For positive pressure
Applicable pressure sensor	PSE533 PSE543 PSE563	PSE531 PSE541 PSE561	PSE532	PSE530 PSE560
Set pressure range	-101 to 101 kPa	10 to -101 kPa	-10 to 101 kPa	-0.1 to 1 MPa
Setting/Display resolution	0.1 kPa	0.1 kPa	0.1 kPa	0.001 MPa

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 "the PSE53□ series" pressure sensor only. Other SMC series (PSE540 and 560) are not equipped with this function.