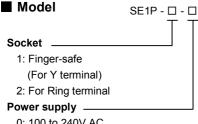


SPEC. SHEET

Potentiometer Transmitter

(with indication function)

Model: SE1P



0: 100 to 240V AC 1: 24V AC/DC

How to order

Specify the model (e.g.) SE1P-1-0

Default value

Output 4 to 20mA DC

Accessories (sold separately)

Communication cable for the console software: CMB-001

■ Input specification

Potentiometer

Excitation: 100Ω to $10k\Omega$ Reference voltage: 1.0V DC

■ Output specification

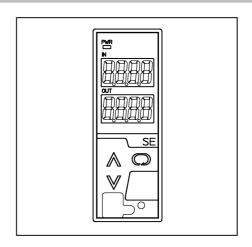
When the output range lower limit is zero, (even if zero adjustment results in a negative value), the output value will not be negative.

DC current

Output range	Allowable load resistance	Zero adjustment range	Span adjustment range
4 to 20mA DC	700Ω or less	-5 to 5%	95 to 105%
0 to 20mA DC	700Ω or less	0 to 5%	95 to 105%
0 to 12mA DC	1.2kΩ or less	0 to 5%	95 to 105%
0 to10mA DC	1.2kΩ or less	0 to 5%	95 to 105%
1 to 5mA DC	2.4kΩ or less	-5 to 5%	95 to 105%

DC voltage

o voltago						
	Output range	Allowable load resistance	Zero adjustment range	Span adjustment range		
	0 to 1V DC	100Ω or more	0 to 5%	95 to 105%		
Ī	0 to 5V DC	500Ω or more	0 to 5%	95 to 105%		
	1 to 5V DC	500Ω or more	-5 to 5%	95 to 105%		
	0 to 10V DC	1k Ω or more	0 to 5%	95 to 105%		



■ Performance

Accuracy (When ambient temperature is 23 $^{\circ}\text{C}$):

Input: Within ±0.1% Output: Within ±0.1%

Indication accuracy: Within input accuracy ±1 digit

Input sampling period: 25ms, 125ms, 250ms (Selectable by keypad) Response time: 65ms (typ.) (0—90%) (Input sampling period 25ms)

225ms (typ.) (0 \rightarrow 90%) (Input sampling period 125ms) 425ms (typ.) (0 \rightarrow 90%) (Input sampling period 250ms)

(Selectable by keypad)

Temperature coefficient: $\pm 0.015\%^{\circ}$ C or less Insulation resistance: $10M\Omega$ or more, at 500V DC

(Input – Output – Power supply)

Dielectric strength: 2.0kV AC for 1 minute

(Input – Output – Power supply)

■ General structure

Case: Flame-resistant resin, Color: Light gray

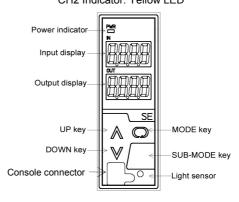
Front panel: Membrane sheet Setting: By the front keypad

Connector for console software: Only for CMB-001

Indication: Input display: 7-segment, Red LED display 4-digit Character size 10x4.6mm (HxW)

Output display: 7-segment, Red LED display 4-digit Character size 10x4.6mm (HxW)

Power indicator: Green LED CH1 indicator: Yellow LED CH2 Indicator: Yellow LED



SE series



Installation specifications

Power supply: 100 to 240V AC 50/60Hz, 24V AC/DC 50/60Hz Allowable voltage range: 85 to 264V AC, 20 to 28V AC/DC

Power consumption: Approx. 6VA Ambient temperature: -5 to 55°C

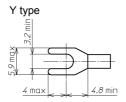
Ambient humidity: 35 to 85%RH (Non-condensing)

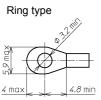
Mounting: DIN rail mounting

External dimensions: W30xH88xD108mm (including the socket)

Weight: Approx. 190g (including the socket)

Solderless terminal





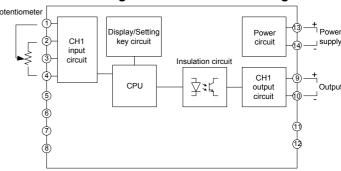
Attached functions

Auto-light function: Display brightness is controlled in accordance with the surrounding area. Unnecessary brightness is reduced, saving energy.

Power failure countermeasure: The data is backed up in non-volatile IC memory..

Self diagnosis: The CPU is monitored by a watchdog timer, and when an abnormal status is found on the CPU, the unit is switched to warm-up status with tuning all outputs off.

Circuit configuration and terminal arrangement



Environmental specification

RoHS directive compliance

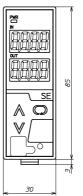
Settings

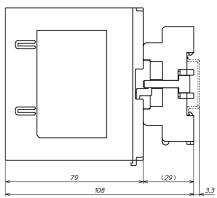
Function keys

- (1) UP Key: Increases the numeric value.
- (2) DOWN Key: Decrease the numeric value.
- (3) MODE Key: Selects the setting mode.
- (4) SUB-MODE Key: Turns the displays ON again when they are in OFF status.

(The UP, DOWN or MODE Key also turns the displays ON again when they are in OFF status.) $\,$

■ External dimensions (Scale: mm)





Displays and indicators

Input display: Indicates the input value

Indication of -2000 or less (for DC input):

The minus (-) sign and input value light alternately.

Indication of 10000 or more:

The lower 4 digits flash.

Under range: " _ _ _ " flashes on the Input display.

Over range: "flashes on the Input display Warm-up indication: For approx. 3sec. after the power to the

instrument is turned on, the input type of CH1 is indicated on the Input display, the input type of CH2 is indicated on the Output

display.

Output display: Indicates output volume in percentage (%) form. Power indicator: The green LED lights when the power to the instrument is turned on.