

## SPEC. SHEET



**RTD Transmitter** 

(with indication function)

Model	SE2R - □ - 丁
Socket	
1: Finger-safe	
(For Y terminal)	
2: For Ring terminal	
Power supply	

## Power supply

0: 100 to 240V AC

1: 24V AC/DC

### How to order

Specify the model (e.g.) SE2R-1-0

Default value			
	CH1 input	Pt100: -200 to 850°C	
	CH2 input	Pt100: -200 to 850 °C	
	CH1 output	4 to 20mA DC	
	CH2 output	4 to 20mA DC	

### Accessories (sold separately)

Communication cable for the console software: CMB-001

### Input specification

### RTD (3-wire system)

Input detection current: Approx. 0.2mAAllowable lead wire resistance:  $10\Omega$  or less per wire Burnout: Upscale, Downscale (Selectable by Keypad) Input

RID	input range				
Pt100		850 °C	-328	to	1562
JPt100	-200 to	500 °C	-328	to	932
0	0-				

Minimum span: 50  $^{\circ}$ C (100  $^{\circ}$ F)

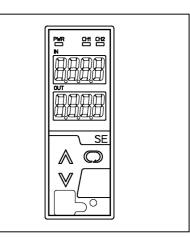
### Output specification

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** 

Out		Allowable load resistance	Zero adjustment range	Span adjustment range
4 to 2	20mA DC	700 $\Omega$ or less	-5 to 5%	95 to 105%
0 to 2	20mA DC	700 $\Omega$ or less	0 to 5%	95 to 105%
0 to	12mA DC	1.2k $\Omega$ or less	0 to 5%	95 to 105%
0 to '	10mA DC	1.2k $\Omega$ or less	0 to 5%	95 to 105%
1 to	5mA DC	2.4k $\Omega$ or less	-5 to 5%	95 to 105%

#### DC voltage

_	Output range	Allowable load resistance	Zero adjustment range	Span adjustment range
-	0 to 1V DC	100 $\Omega$ or more	0 to 5%	95 to 105%
-	0 to 5V DC	500 $\Omega$ or more	0 to 5%	95 to 105%
-	1 to 5V DC	500 $\Omega$ or more	-5 to 5%	95 to 105%
	0 to 10V DC	1k $\Omega$ or more	0 to 5%	95 to 105%



### Performance

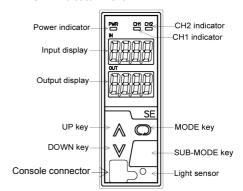
Accuracy (When ambient temperature is  $23^{\circ}$ C): Input: Within ±0.1% of each input span Output: Within ±0.1% Indication accuracy: Within input accuracy ±1 digit Input sampling period: 25ms, 125ms, 250ms (Selectable by keypad) Response time: 65ms (typ.) (0→90%) (Input sampling period 25ms) 225ms (typ.) (0→90%) (Input sampling period 125ms) 425ms (typ.) (0→90%) (Input sampling period 250ms) (Selectable by keypad Temperature coefficient: ±0.015%/°C or less Insulation resistance: 10M $\Omega$  or more, at 500V DC (Input – Output – Power supply) Dielectric strength: 2.0kV AC for 1 minute

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### 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 10×4.6mm (H×W) Output display: 7-segment, Red LED display 4-digit Character size 10×4.6mm (H×W)

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. 8VAAmbient temperature: -5 to  $55^{\circ}C$ 

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

Mounting: DIN rail mounting

External dimensions: W30×H88×D108mm (including the socket) Weight: Approx. 190g (including the socket)

## 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 nonvolatile IC memory. Self diagnosis: The CPU is monitored by a watchdog timer, and
- 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.

### Environmental specification

RoHS directive compliance

### Settings

### Function keys

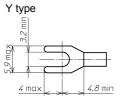
- (1) UP Key: Increases the numeric value.
- (2) DOWN Key: Decrease the numeric value.
- (3) MODE Key: Selects the setting mode.
- (4) SUB-MODE Key: Turns the displays ON again when they are in OFF status.

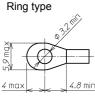
(The UP, DOWN or MODE Key also turns the displays ON again when they are in OFF status.)

## Displays and indicators

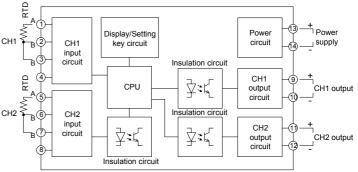
- Input display: Indicates the input value
  - Indication of -200.0 or less (for the range with decimal point):
    - The minus (-) sign and input value light alternately.
- Under range: "\_\_\_\_" flashes on the input display. Over range: " " flashes on the input display
- Warm-up indication: For approx. 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.
- CH1 indicator: The yellow LED lights when CH1 is selected during Display selection mode.
- CH2 indicator: The yellow LED lights when CH2 is selected during Display selection mode.

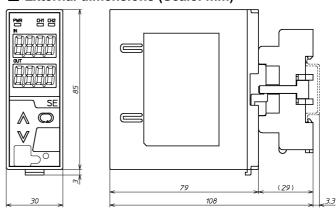
## Solderless terminal





### Circuit configuration and terminal arrangement





### External dimensions (Scale: mm)