2-output RTD Transmitter (With Indication Function)   Model: SEWR

■ Model

SEWR-□-□

Socket
  1: Screw fall prevention, Finger-safe
    (For Y terminal)
  2: For Ring terminal
Power supply
  0: 100 to 240V AC
  1: 24V AC/DC
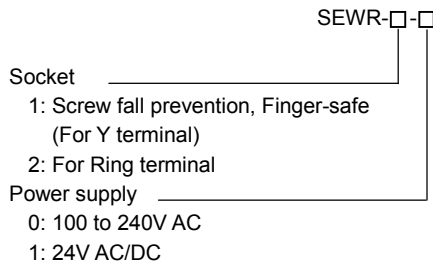
■ How to Order

Specify a model.   (e.g.) SEWR-1-0
Factory Default Value:

Input	Pt100: -200 to 850℃
Output 1	4 to 20mA DC
Output 2	4 to 20mA DC

■ Accessories (Sold Separately)

Communication cable to connect console software: CMB-001

■ Input Specifications

RTD (3-wire type)
Input detection current: Approx. 0.2mA
Allowable lead wire resistance: 10Ω or less per wire
Burnout: Upscale, Downscale (Selectable by the keypad)

Input

| RTD	Input Range	
Pt100	-200 to 850℃	-328 to 1562℉
JPt100	-200 to 500℃	-328 to 932℉

Minimum span: 50℃ (100℉)

■ Output Specifications

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 to 10mA 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

Output range	Allowable load resistance	Zero adjustment range	Span adjustment range
0 to 1V DC	100Ω or more	0 to 5%	95 to 105%
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	1kΩ or more	0 to 5%	95 to 105%
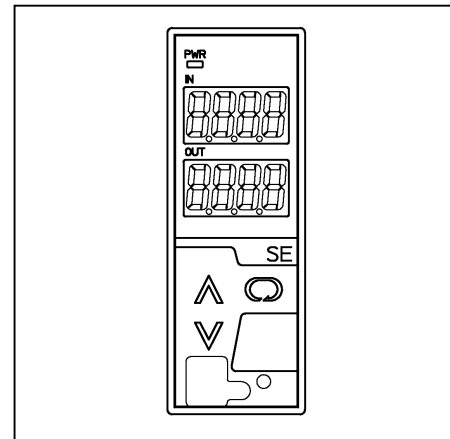
■ Performance

Basic accuracy (at 23℃ of ambient temperature)
  • Input: Within ±0.1% of each input span
  • Output: Within ±0.1%
Cold junction compensation accuracy: Within ±1℃ at -5 to 55℃
Indication accuracy: Within Basic input accuracy ±1 digit
Input sampling period: 25ms, 125ms, 250ms (Selectable by the keypad)

Response time: (Selectable by the keypad)
  65ms (typ.) (0→90%) (Input sampling period: 25ms)
  225ms (typ.) (0→90%) (Input sampling period: 125ms)
  425ms (typ.) (0→90%) (Input sampling period: 250ms)
Temperature coefficient: ±0.015%/℃ or less
Insulation resistance: 10MΩ or more, at 500V DC
          (Input - Output - Power)
Dielectric strength: 2.0kV AC for 1 minute
          (Input - Output - Power)

■ General Structure

Case: Flame-resistant resin   Color: Light gray
Front panel: Membrane sheet
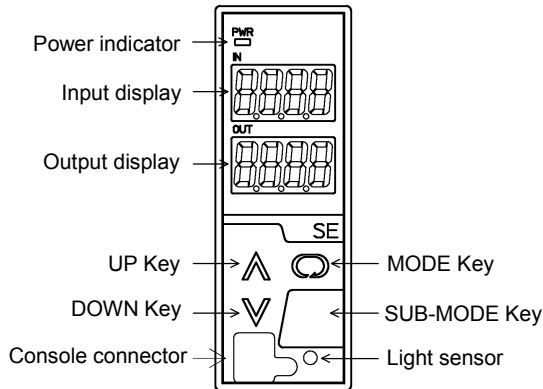Setting: Using front keypad
Connector for console software: Only CMB-001 cable usable
Displays and indicators:
  Input display: 7-segment Red LED display 4-digit,
          Character size: 10 x 4.6mm (H x W)
  Output display: 7-segment Red LED display 4-digit,
  Character size: 10 x 4.6mm (H x W)
  Power indicator: Green LED

SEW SERIES

AC Instrument

Power indicator → PWR

Input display → IN

Output display → OUT

SE

UP Key → / MODE Key

DOWN Key → / SUB-MODE Key

Console connector → / Light sensor

■ 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. 8VA
Ambient temperature: -5 to 55℃
Ambient humidity: 35 to 85%RH (non-condensing)
Weight: Approx.190g (including socket)
Mounting: DIN rail
Dimensions: W30 x H88 x D108mm (including socket)

■ Attached Functions

Light sensor: Automatically measures and controls brightness
   of the displays, 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 turning all outputs OFF.

■ Environmental Specification
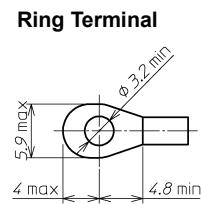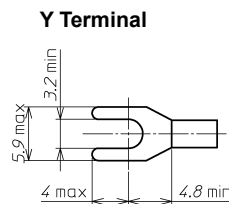
RoHS directive compliance

■ Settings

Function Keys
(1) UP Key: Increases numeric value.
(2) DOWN Key: Decreases numeric value.
(3) MODE Key: Selects a setting mode.
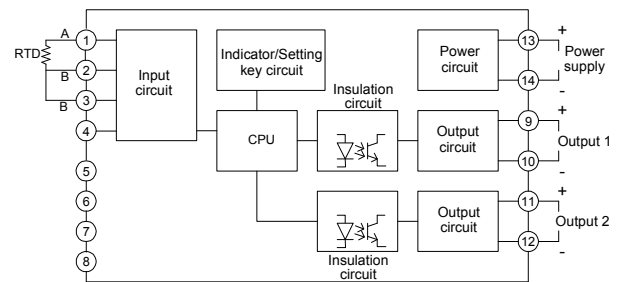(4) SUB-MODE Key: Lights the displays again when in unlit
   status.

■ Displays and Indicators

Input display: Indicates the input value.
   When a range with a decimal point is selected:
      Indication of -200.0 or less: 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. 3 seconds after the power to the instrument is
   turned on, input type is indicated on the Input display, and
   Output 1 type is indicated on the Output display.
Output display: Indicates the output volume in percentage (%)
      form.
Power indicator: A green LED is lit when the power to the
      instrument is turned on.

■ Solderless Terminals

Y Terminal

3.2 min
5.9 max
4 max   4.8 min

Ring Terminal

φ 3.2 min
5.9 max
4 max   4.8 min

■ Circuit Configuration, Terminal Arrangement

RTD A (1)
B (2)   Input circuit
B (3)
(4)
(5)
(6)
(7)
(8)

Indicator/Setting key circuit
CPU
Insulation circuit
Insulation circuit

Power circuit
Output circuit
Output circuit

(13) + Power supply
(14) -
(9) + Output 1
(10) -
(11) + Output 2
(12) -

■ External Dimensions (Scale: mm)

PWR
IN
OUT
SE

85
3
30
79   (29)
108   3.3