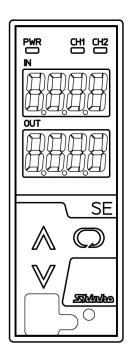
PLUG-IN TYPE ALARM DETECTOR

SEA SERIES

INSTRUCTION MANUAL





Preface

Thank you for purchasing the SE \(\subseteq \) A series Alarm Detector. This manual contains instructions for the mounting, functions, operations and notes when operating the SE \(\subseteq \subseteq A \) series. To ensure safe and correct use, thoroughly read and understand this manual before using this unit. To prevent accidents arising from the misuse of this instrument, please ensure the operator receives this manual.

Notes

- This instrument should be used in accordance with the specifications described in the manual. If it is not used according to the specifications, it may malfunction or cause a fire.
- Be sure to follow the warnings, cautions and notices. If they are not observed, serious injury or malfunction may occur.
- Specifications of the SE A series and the contents of this instruction manual are subject to change without notice.
- Care has been taken to assure that the contents of this instruction manual are correct, but if there are any doubts, mistakes or questions, please inform our sales department.
- This instrument is designed to be installed on a DIN rail within a control panel. If it is not, measures
 must be taken to ensure that the operator does not touch power terminals or other high voltage
 sections.
- Any unauthorized transfer or copying of this document, in part or in whole, is prohibited.
- Shinko Technos CO., LTD. is not liable for any damages or secondary damages incurred as a result of using this product, including any indirect damages.

SAFETY PRECAUTIONS (Be sure to read these precautions before using our products.)

The safety precautions are classified into 2 categories: "Warning" and "Caution". Depending on the circumstances, procedures indicated by \triangle Caution may cause serious results, so be sure to follow the directions for usage.



Procedures which may lead to dangerous conditions and cause death or serious injury, if not carried out properly.



Procedures which may lead to dangerous conditions and cause superficial to medium injury or physical damage or may degrade or damage the product, if not carried out properly.



Warning

- To prevent an electric shock or fire, only Shinko or other qualified service personnel may handle the inner assembly.
- To prevent an electric shock, fire or damage to the instrument, parts replacement may only be undertaken by Shinko or other qualified service personnel.

$\overline{\mathbb{A}}$

Safety Precautions

- To ensure safe and correct use, thoroughly read and understand this manual before using this instrument.
- This instrument is intended to be used for industrial machinery, machine tools and measuring equipment. Verify correct usage after purpose-of-use consultation with our agency or main office. (Never use this instrument for medical purposes with which human lives are involved.)
- External protection devices such as protective equipment against excessive temperature rise, etc. must be installed, as malfunction of this product could result in serious damage to the system or injury to personnel. Also proper periodic maintenance is required.
- This instrument must be used under the conditions and environment described in this manual. Shinko Technos Co., Ltd. does not accept liability for any injury, loss of life or damage occurring due to the instrument being used under conditions not otherwise stated in this manual.

Caution with respect to Export Trade Control Ordinance

To avoid this instrument from being used as a component in, or as being utilized in the manufacture of weapons of mass destruction (i.e. military applications, military equipment, etc.), please investigate the end users and the final use of this instrument. In the case of resale, ensure that this instrument is not illegally exported.

1. Installation Precautions



Caution

This instrument is intended to be used under the following environmental conditions (IEC61010-1): Overvoltage category II, Pollution degree 2

Ensure the mounting location corresponds to the following conditions:

- A minimum of dust, and an absence of corrosive gases
- · No flammable, explosive gases
- No mechanical vibrations or shocks
- No exposure to direct sunlight, an ambient temperature of -5 to 55°C (23 to 131°F) that does not change rapidly, and no icing
- An ambient non-condensing humidity of 35 to 85%RH
- No large capacity electromagnetic switches or cables through which large current is flowing
- No water, oil or chemicals or where the vapors of these substances can come into direct contact with the unit
- If this instrument is installed within a control panel, the ambient temperature of the unit not the ambient temperature of the control panel must be kept to under 55°C (131°F). Otherwise the life of electronic parts (especially electrolytic capacitors) of the unit will be shortened.

Note: Avoid setting this instrument directly on or near flammable material even though the case of this instrument is made of flame-resistant resin.

2. Wiring Precautions



Caution

- Do not leave wire remnants in the instrument, because they could cause a fire and/or a malfunction.
- When wiring terminals, use a solderless terminal with an insulation sleeve in which an M3 screw fits.
- Tighten the terminal screw using the specified torque.
 - If excessive force is applied to the screw when tightening, the screw may be damaged.
- This instrument has no built-in power switch, circuit breaker or fuse. It is necessary to install them near the instrument.
- (Recommended fuse: Time-lag fuse, rated voltage 250V AC, rated current 2A)
- For wiring of AC power source, be sure to use exclusive terminals as described in this manual. If AC power source is connected to incorrect terminals, the unit will burn out.
- For a 24V DC power source, do not confuse polarity.
- Do not apply a commercial power source to the sensor connected to the input terminal nor allow the power source to come into contact with the sensor, as the input circuit may burn out.
- Use a thermocouple, compensating lead wire and 3-wire type RTD according to the sensor input specifications of this unit.
- When using DC voltage and current input, do not confuse polarity when wiring.
- Keep the input/output wires and power line separate.

3. Operation and Maintenance Precautions



Caution

- Do not touch live terminals. This may cause electric shock or problems in operation.
- Turn the power supply to the instrument OFF when retightening the terminal and cleaning. Working on or touching the terminal with the power switched ON may result in severe injury or death due to Electric Shock.
- Use a soft, dry cloth when cleaning the instrument. (Alcohol based substances may tarnish or deface the unit.)
- As the display section is vulnerable, do not strike or scratch it with a hard object or put pressure on it.

Model Explanation

Model names included in this manual are indicated below.

| Name | | Model |
|-------------|-------|----------------------------|
| SE A series | SE2□A | SE2EA, SE2RA, SE2AA, SE2VA |
| | SE1□A | SE1EA, SE1RA, SE1AA, SE1VA |

Characters Used in This Manual

| Indication | -; | | 1 | Ū | 77 | 4 | 5 | 5 | 7 | 8 | 3 | Ľ | F |
|---------------|----|---|---|---|----------|---|---|---|---|----|---|--------------|----|
| Number, °C/°F | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | $^{\circ}$ C | °F |
| Indication | R | Ь | _ | ₫ | Ε | F | 5 | H | ; | .J | Ŀ | L | ñ |
| Alphabet | Α | В | С | D | Е | F | G | Н | ı | J | K | L | М |
| Indication | n | ۵ | P | 9 | - | 7 | ! | Ш | B | ū | 1 | 占 | 11 |
| Alphabet | Ν | 0 | Р | Q | R | S | Т | U | V | W | Χ | Υ | Z |

means that no character is indicated (unlit) on the display.

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1. Model

1.1 Model

SE A Series

| SE | □□A- | | | | | | |
|---------------|------|---|--------|------------------------|------------------------------------|----------------------------------|--|
| 2 E | | | | 2ch alaı | rm detector (thermocouple) | | |
| 2ch alarm | 2 R | | | | 2ch alaı | rm detector (RTD) | |
| detector | 2 A | | | | 2ch alaı | rm detector (direct current) (*) | |
| detector | 2 V | | | | 2ch alarm detector (DC voltage) | | |
| 4 - 1- | 1 E | | | | 1ch alaı | rm detector (thermocouple) | |
| 1ch alarm | 1 R | | | | 1ch alaı | rm detector (RTD) | |
| detector | 1 A | | | | 1ch alaı | rm detector (direct current) (*) | |
| detector | 1 V | | | | 1ch alaı | rm detector (DC voltage) | |
| | | 1 | | | Screw fall prevention, Finger-safe | | |
| Socket | | ļ | | | (For Y t | erminal) | |
| | | 2 | | | For Ring terminal | | |
| Dower auppl | | | 0 | | 100 to 240 V AC | | |
| Power suppl | У | | 1 | | 24 V AC | C/DC | |
| Output points | | | | 0 | | 2 points | SE2□A: 1 alarm output for each channel |
| | | | pointo | SE1□A: 2 alarm outputs | | | |
| Output points | | | | 6 | SE2□A: 3 alarm outputs for each | | |
| | | | 1 | points | channel | | |
| | | | | | SE1□A: 6 alarm outputs | | |

(*) For direct current input, a shunt resistor (sold separately) is required.

(E.g.) SE2EA-1-0-0

Alarm detector type: 2ch alarm detector (thermocouple)

Socket: Screw fall prevention, Finger-safe (For Y terminal)

Power supply: 100 to 240 V AC

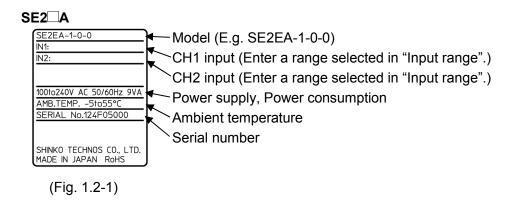
Output points: 2 points (1 alarm output for each channel)

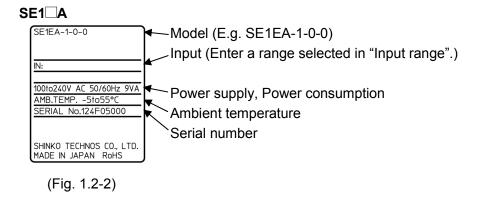
Factory default value: CH1 input: K -200 to 1370°C

CH2 input: K -200 to 1370°C

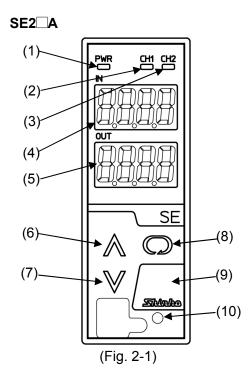
1.2 How to Read the Model Label

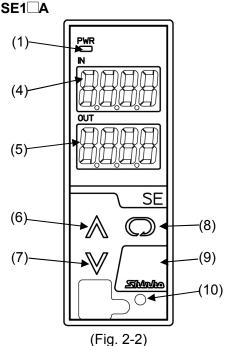
The model label is attached to the left side of the case.





2. Name and Functions of Sections





(1) Power indicator (Green)

Lit when the power to the instrument is turned on.

(2) CH1 indicator (SE2□A) (Yellow)

Lit when CH1 is selected in [Display selection]. Flashes when CH1 alarm output is ON.

(3) CH2 indicator (SE2□ A) (Yellow)

Lit when CH2 is selected in [Display selection]. Flashes when CH2 alarm output is ON.

(4) Input display (Red)

Indicates CH1 or CH2 input value selected in [Display selection] in RUN mode. Indicates setting item characters during Setup and Alarm setting mode.

(5) Set value display (Red)

Indicates CH1 or CH2 A1 value or CH2 input value selected in [Display selection] in RUN mode.

Indicates the set value during Setup and Alarm setting mode.

(6) UP Key (▲)

Increases the numeric value, or switches the selection items.

(7) DOWN Key (♥)

Decreases the numeric value, or switches the selection items.

(8) MODE Key ([◯])

Selects or switches a group, and registers the set (or selected) value.

(9) 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.)

(10) Light sensor

Automatically measures and controls brightness of the Input and Set value displays.

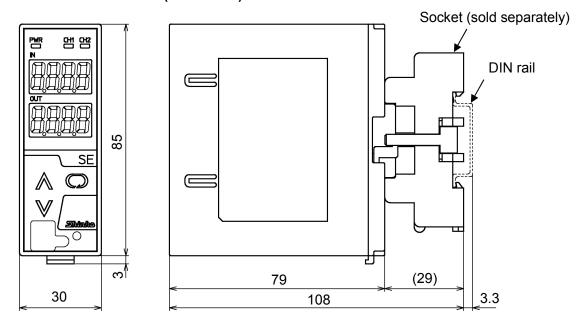


Notice

When setting the specifications and functions of this instrument, connect terminals 13 and 14 to a mains power cable first, then set them referring to "5. Key operation flowchart" and "6. Setup" before performing "3. Mounting" and "4. Wiring".

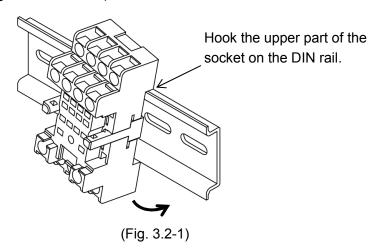
3. Mounting

3.1 External Dimensions (Scale: mm)



3.2 Mounting to a DIN Rail

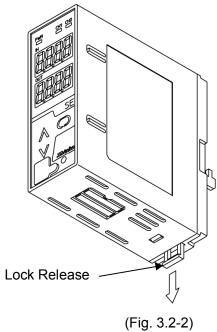
(1) Hook the upper part of the socket on the DIN rail, and mount it. (A clicking sound is heard.)



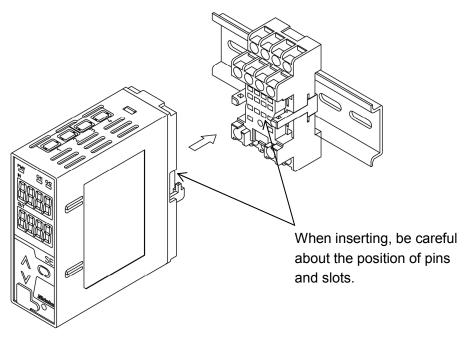
riangle Caution

Wire the instrument before inserting the unit into the socket. For wiring, refer to Section "4. Wiring".

(2) Confirm that the Lock Release is lowered.

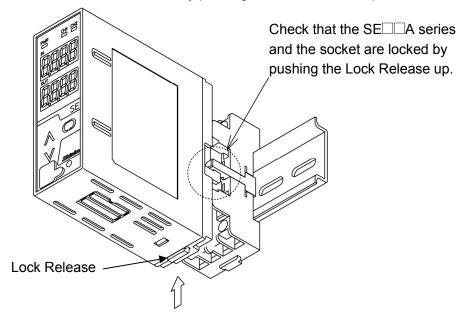


(3) Insert the SE□□A series into the socket.



(Fig. 3.2-3)

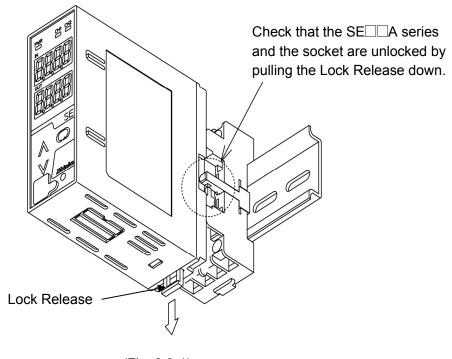
(4) Fix the SE A series and the socket by pushing the Lock Release up.



(Fig. 3.2-4)

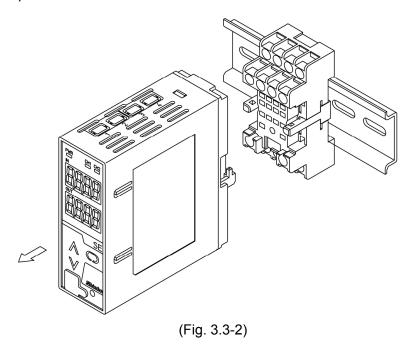
3.3. Removal from a DIN Rail

- (1) Turn the power supply to the unit OFF.
- (2) Pull the Lock Release down, and release the SE□□A series from the socket.

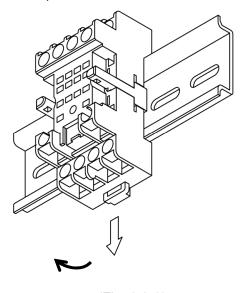


(Fig. 3.3-1)

(3) Separate the SE A series from the socket.



(4) Remove the socket from the DIN rail by pulling the Socket Lock Release (at the bottom of the socket) down.



(Fig. 3.3-3)

4. Wiring



Warning

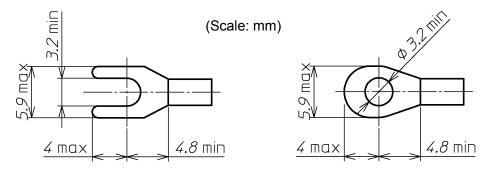
Turn the power supply to the instrument off before wiring. Working on or touching the terminal with the power switched on may result in severe injury or death due to Electric Shock.

4.1 Lead Wire Solderless Terminal

Use a solderless terminal with an insulation sleeve in which an M3 screw fits as follows. For the sockets with finger-safe & screw fall prevention functions, the Ring terminals are incompatible.

The tightening torque should be 0.63N•m.

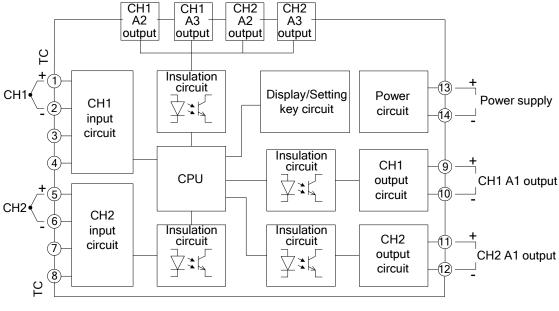
| Solderless Terminal | Manufacturer | Model |
|------------------------|---|--------------|
| Y type | Nichifu Terminal Industries CO., LTD. | TMEV1.25Y-3S |
| Ding topo | Nichifu Terminal Industries CO., LTD. | TMEV 1.25-3 |
| Ring type | Japan Solderless Terminal MFG CO., LTD. | V1.25-3 |



(Fig. 4.1-1)

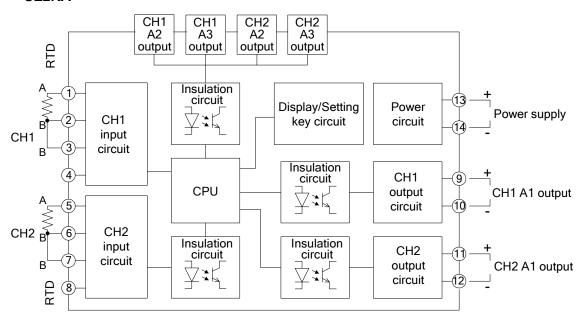
4.2 Terminal Arrangement and Circuit Configuration

SE2EA



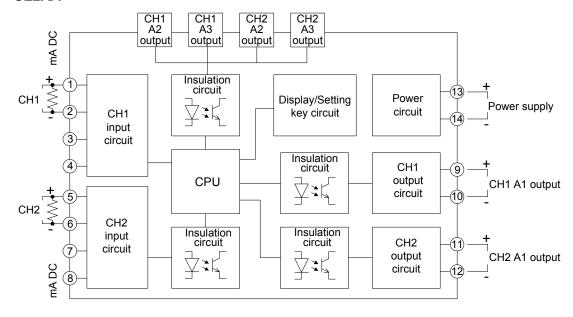
(Fig. 4.2-1)

SE2RA



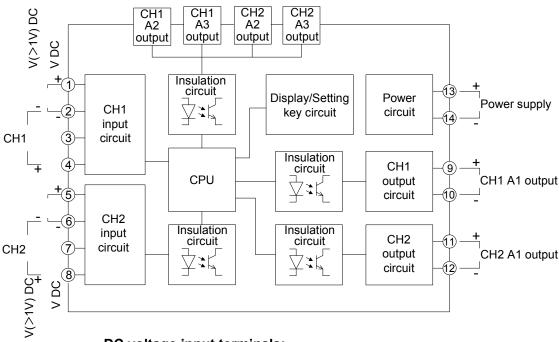
(Fig. 4.2-2)

SE2AA



(Fig. 4.2-3)

SE2VA



DC voltage input terminals:

0 to 1 V DC

V DC:

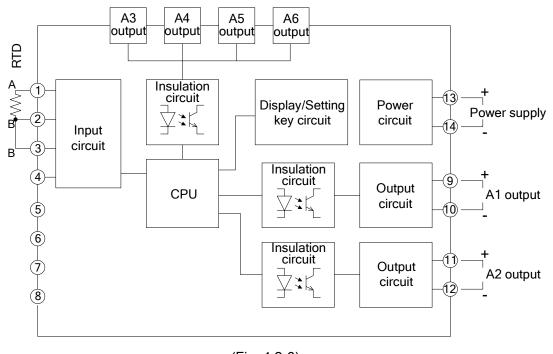
V(>1V) DC: 0 to 5 V DC, 1 to 5 V DC, 0 to 10 V DC

(Fig. 4.2-4)

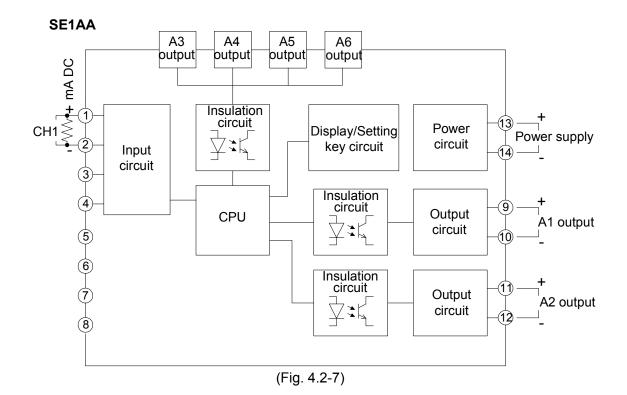
SE1EA А3 Α4 Α5 A6 output output output output Insulation circuit 13 Display/Setting Power Power supply key circuit circuit Input (14)circuit (3) Insulation circuit **(4)** Output **CPU** A1 output circuit (5) 6 Insulation circuit 7 Output A2 output circuit 12 (8)

(Fig. 4.2-5)

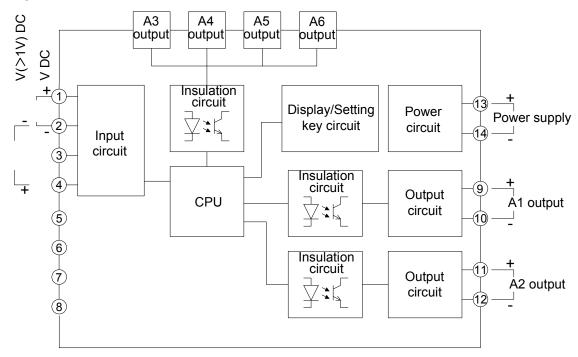
SE1RA



(Fig. 4.2-6)



SE1VA



DC voltage input terminals:

V DC: 0 to 1 V DC

V(>1V) DC: 0 to 5 V DC, 1 to 5 V DC, 0 to 10 V DC

(Fig. 4.2-8)

4.3 Wiring of Terminals

Ŵ

Warning

- For 100 to 240V AC, if AC power source is connected to incorrect terminals, this instrument will burn out.
- For a 24V DC power source, do not confuse polarity when wiring.

4.3.1 Power Source Wiring

Use terminals 13 (+) and 14 (-) for the power supply to the instrument.

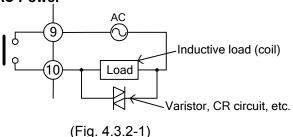
4.3.2 Output Wiring

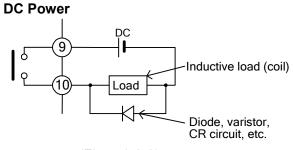
SE2
A: Use terminals 9 (+) and 10 (-) for CH1 A1 output wiring.
Use terminals 11 (+) and 12 (-) for CH2 A1 output wiring.

SE1 \square A: Use terminals 9 (+) and 10 (-) for A1 output wiring. Use terminals 11 (+) and 12 (-) for A2 output wiring.

Take the following measures for contact protection and noise reduction of A1 output relay.

AC Power





(Fig. 4.3.2-2)

For 6-points output specification, alarm output connectors are attached at the top of the unit. Refer to the alarm output corresponding to the connector number.

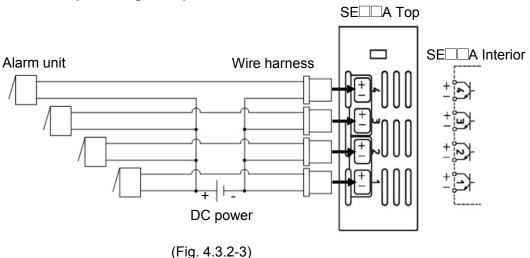
(Table 4.3.2-1)

| Connector | Alarm Output | | |
|-----------|---------------|-----------|--|
| Number | SE2□A | SE1□A | |
| 1 | CH1 A2 output | A3 output | |
| 2 | CH1 A3 output | A4 output | |
| 3 | CH2 A2 output | A5 output | |
| 4 | CH2 A3 output | A6 output | |

Output specifications are shown below.

Open collector Control capacity: 0.1 A 24 V DC

Alarm output wiring example



4.3.3 Input Wiring

Connection terminals differ depending on the input specifications.

Refer to (Fig. 4.2-1) to (Fig. 4.2-8).

SE2AA:

For CH1, use terminals 1 (+), 2 (-) for input wiring and shunt resistor connection. For CH2, use terminals 5 (+), 6 (-) for input wiring and shunt resistor connection. (See Table 4.3.3-1.)

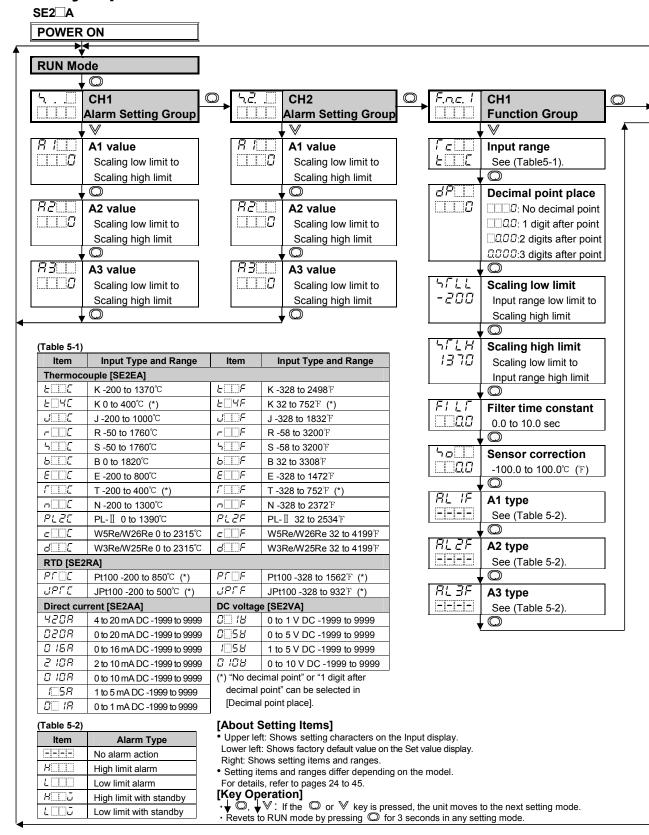
SE1AA:

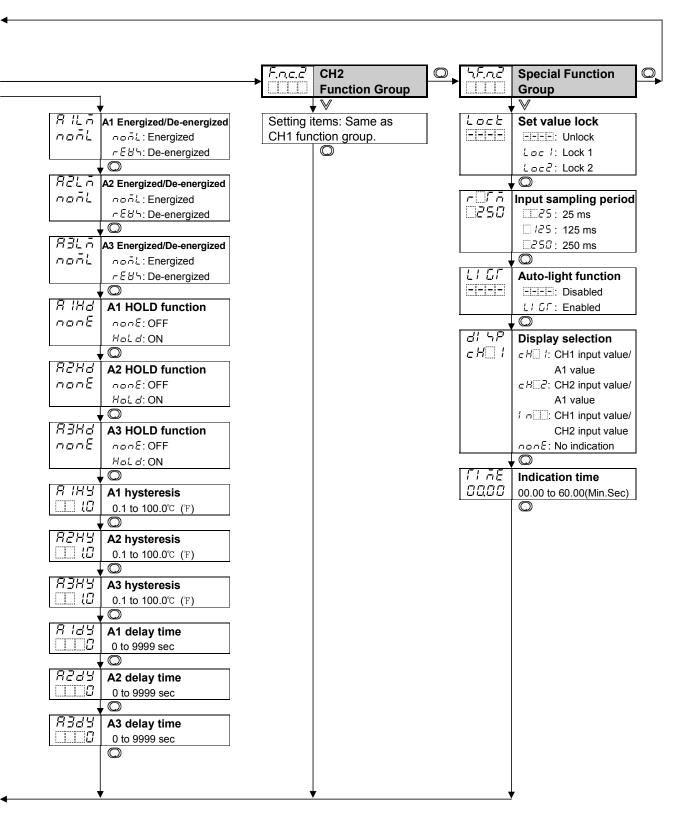
Use terminals 1 (+), 2 (-) for input wiring and shunt resistor connection. (See Table 4.3.3-1.)

(Table 4.3.3-1)

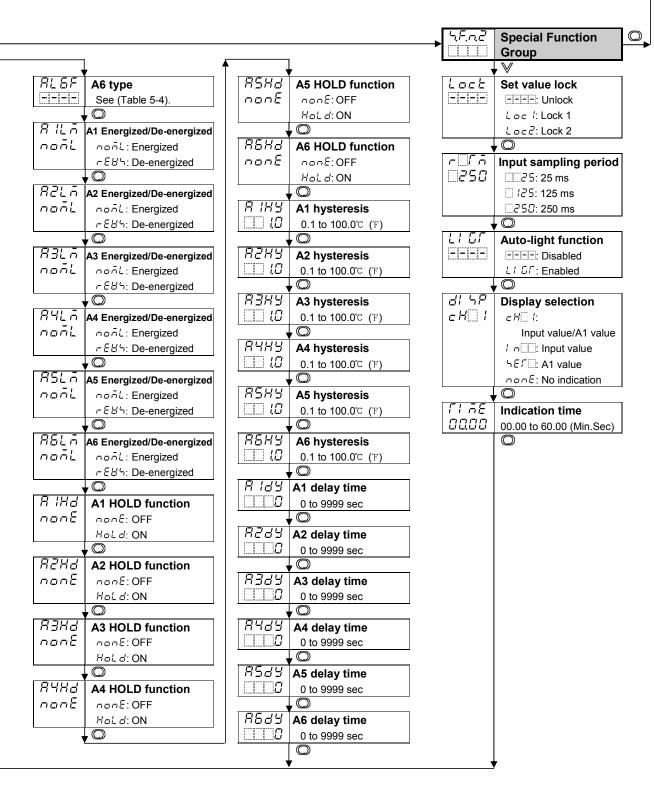
| | | Shunt Resistor | | |
|---------------|------------------------|---------------------------|--------|----------|
| Input | Model (for Y terminal) | Model (for Ring terminal) | Speci | fication |
| 4 to 20 mA DC | | | | |
| 0 to 20 mA DC | RES-S06-050 | RES-S01-050 | 50 Ω | ±0.1% |
| 0 to 16 mA DC | | | | |
| 2 to 10 mA DC | RES-S06-100 | RES-S01-100 | 100 Ω | ±0.1% |
| 0 to 10 mA DC | KES-500-100 | KES-301-100 | 100 35 | ±0.1% |
| 1 to 5 mA DC | RES-S06-200 | RES-S01-200 | 200 Ω | ±0.1% |
| 0 to 1 mA DC | RES-S06-01K | RES-S01-01K | 1 kΩ | ±0.1% |

5. Key Operation Flowchart





SE1 A **POWER ON** ₩ **RUN Mode** 0 Alarm setting F.n.c. I **Function Group** group $B : \square$ 84 Γc Input range A1 value A4 value Scaling low limit to See (Table 5-3). Scaling low limit to Scaling high limit Scaling high limit dP Decimal point place 82 85 III A2 value A5 value ☐☐☐: No decimal point Scaling low limit to Scaling low limit to □□□□□: 1 digit after point Scaling high limit Scaling high limit □□□□: 2 digits after point 0 ΩΩΩΩ: 3 digits after point 85 83 A3 value A6 value Scaling low limit to Scaling low limit to Scaling low limit -200 Scaling high limit Scaling high limit Input range low limit 0 to Scaling high limit <u> 55 L H</u> (Table 5-3) Scaling high limit Input Type and Range 1370 Item Item Input Type and Range Scaling low limit Thermocouple [SE1EA] to Input range high limit EIIC K -200 to 1370°C EIF K -328 to 2498°F EUYE EUYF K 0 to 400°C (*) K 32 to 752°F (*) FILI Filter time constant JIII JIIF J -200 to 1000°C J -328 to 1832°F 0.0 to 10.0 sec -IIIF R -50 to 1760°C R -58 to 3200°F S -50 to 1760°C S -58 to 3200°F ١٥. Sensor correction ЬШС B 0 to 1820°C Ь∭Р B 32 to 3308°F -100.0 to 100.0℃ (℉) EITE E -200 to 800°C EIF E -328 to 1472°F TI I r F T -200 to 400°C (*) T -328 to 752°F (*) RL IF A1 type $\neg \square \mathcal{L}$ n F N -200 to 1300°C N -328 to 2372°F [-[-[-See (Table 5-4). PL2E PL2F PL-Ⅱ 0 to 1390°C PL-II 32 to 2534°F $\epsilon \square \mathcal{L}$ W5Re/W26Re 0 to 2315°C CIF W5Re/W26Re 32 to 4199°F RL2F A2 type d I E d F W3Re/W25Re 0 to 2315°C W3Re/W25Re 32 to 4199°F See (Table 5-4). RTD [SE1RA] PITE PFE Pt100 -200 to 850°C (*) Pt100 -328 to 1562°F (*) JPFF JPFE JPt100 -200 to 500°C (*) JPt100 -328 to 932°F (*) AL 3F A3 type DC Voltage [SE1VA] Direct Current [SE1AA] See (Table 5-4). 420R 4 to 20 mA DC -1999 to 9999 0 18 0 to 1 V DC -1999 to 9999 ozor 0 58 0 to 20 mA DC -1999 to 9999 0 to 5 V DC -1999 to 9999 AL YE A4 type /<u>__</u>58 0 (58 0 to 16 mA DC -1999 to 9999 1 to 5 V DC -1999 to 9999 -----See (Table 5-4). 2 IDA 2 to 10 mA DC -1999 to 9999 0 108 0 to 10 V DC -1999 to 9999 (*) "No decimal point" or "1 digit after O IOR 0 to 10 mA DC -1999 to 9999 RL SF A5 type decimal point" can be selected in / 5R 1 to 5 mA DC -1999 to 9999 [Decimal point place]. See (Table 5-4). Ω⊟ IR 0 to 1 mA DC -1999 to 9999 (Table 5-4) [About Setting Items] Upper left: Shows setting characters on the Input display. Item Alarm Type Lower left: Shows factory default value on the Set value display. [-]-[-]-No alarm action Right: Shows setting items and ranges. H High limit alarm · Setting items and ranges differ depending on the model. LITTI Low limit alarm For details, refer to pages 24 to 45. $H \square J$ [Key Operation] High limit with standby $\downarrow \bigcirc$, $\downarrow \bigvee$: If the \bigcirc or \bigvee key is pressed, the unit moves to the next setting mode. LII Low limit with standby



6. Setup

Setup should occur before using this unit, to set (or select) an Input range, Scaling low limit value, Scaling high limit value, Alarm type, etc. according to the users' conditions.

Setup is conducted in the CH1 function group, CH2 function group (SE2□A) and Special function group.

Refer to the default values in (Table 6-1) to (Table 6-3).

If the users' specifications are the same as the default value of the instrument, or if setup has already been completed, it is not necessary to set up the instrument. Proceed to Section "7. Alarm settings".

Function Group

(Table 6-1) SE2 A (CH1 and CH2 have respective setting items.)

| Setting Item | Factory Default Value | | | | |
|---------------------------|--|--|--|--|--|
| | K -200 to 1370°C (SE2EA) | | | | |
| Input range | Pt100 -200 to 850°C (SE2RA) | | | | |
| Input range | 4 to 20 mA DC -1999 to 9999 (SE2AA) | | | | |
| | 1 to 5 V DC -1999 to 9999 (SE2VA) | | | | |
| Decimal point place | No decimal point | | | | |
| Scaling low limit | -200℃ (SE2EA, SE2RA) | | | | |
| Scaling low little | -1999 (SE2AA, SE2VA) | | | | |
| | 1370℃ (SE2EA) | | | | |
| Scaling high limit | 850°C (SE2RA) | | | | |
| | 9999 (SE2AA, SE2VA) | | | | |
| Filter time constant | 0.0 sec | | | | |
| Sensor correction | 0.0℃ (SE2EA, SE2RA) | | | | |
| Sensor correction | 0 (SE2AA, SE2VA) | | | | |
| A1 type | | | | | |
| A2 type | No alarm action | | | | |
| A3 type | | | | | |
| A1 Energized/De-energized | | | | | |
| A2 Energized/De-energized | Energized | | | | |
| A3 Energized/De-energized | | | | | |
| A1 HOLD function | | | | | |
| A2 HOLD function | OFF | | | | |
| A3 HOLD function | | | | | |
| A1 hysteresis | 10°C (SE3EA SE3DA) | | | | |
| A2 hysteresis | 1.0℃ (SE2EA, SE2RA) 1.0% (SE2AA, SE2VA) | | | | |
| A3 hysteresis | 1.070 (GLZAA, GLZVA) | | | | |
| A1 delay time | | | | | |
| A2 delay time | 0 sec | | | | |
| A3 delay time | | | | | |

(Table 6-2) SE1□A

| Setting Item | Factory Default V | 'alue | | | |
|---------------------------|-----------------------------|-------------|--|--|--|
| | K -200 to 1370°C | (SE1EA) | | | |
| Input rango | Pt100 -200 to 850°C | (SE1RA) | | | |
| Input range | 4 to 20 mA DC -1999 to 9999 | (SE1AA) | | | |
| | 1 to 5 V DC -1999 to 9999 | (SE1VA) | | | |
| Decimal point place | No decimal point | | | | |
| Sociar low limit | -200° (SE1EA, SE1RA) | | | | |
| Scaling low limit | -1999 (SE1AA, SE1VA) | | | | |
| | 1370℃ (SE1EA) | | | | |
| Scaling high limit | 850°C (SE1RA) | | | | |
| | 9999 (SE1AA, SE1VA) | | | | |
| Filter time constant | 0.0 sec | | | | |
| Sensor correction | 0.0°C (SE1EA, SE1RA) | | | | |
| CONSON CONTECUION | 0 (SE1AA, SE1VA) | | | | |
| A1 type | | | | | |
| A2 type | | | | | |
| A3 type | No alarm action | | | | |
| A4 type | | | | | |
| A5 type | | | | | |
| A6 type | | | | | |
| A1 Energized/De-energized | | | | | |
| A2 Energized/De-energized | | | | | |
| A3 Energized/De-energized | Energized | - Energized | | | |
| A4 Energized/De-energized | | | | | |
| A5 Energized/De-energized | | | | | |
| A6 Energized/De-energized | | | | | |
| A1 HOLD function | | | | | |
| A2 HOLD function | | | | | |
| A3 HOLD function | OFF | | | | |
| A4 HOLD function | | | | | |
| A5 HOLD function | | | | | |
| A6 HOLD function | | | | | |
| A1 hysteresis | | | | | |
| A2 hysteresis | | | | | |
| A3 hysteresis | 1.0℃ (SE1EA, SE1RA) | | | | |
| A4 hysteresis | 1.0% (SE1AA, SE1VA) | | | | |
| A5 hysteresis | | | | | |
| A6 hysteresis | | | | | |

| Setting Item | Factory Default Value |
|---------------|-----------------------|
| A1 delay time | |
| A2 delay time | |
| A3 delay time | |
| A4 delay time | - 0 sec |
| A5 delay time | |
| A6 delay time | |

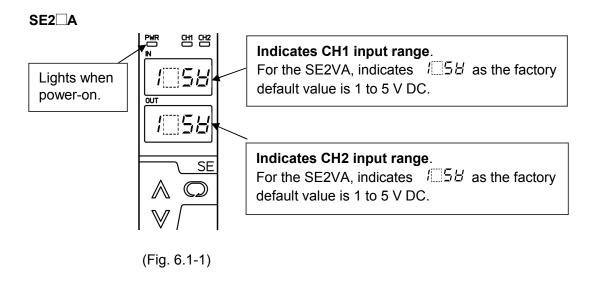
Special function group (Common to CH1 and CH2)

(Table 6-3)

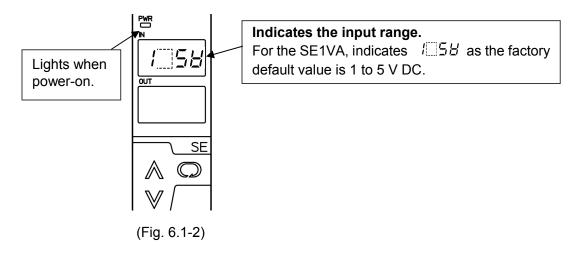
| Setting Item | Factory Default Value |
|-----------------------|----------------------------------|
| Set value lock | Unlock |
| Input sampling period | 250 ms |
| Auto-light function | Disabled |
| Display selection | CH1 input value/A1 value (SE2□A) |
| | Input value/A1 value (SE1□A) |
| Indication time | 00.00 (Continuous indication) |

6.1 Indication after Power-on

After power-on, the unit moves to warm-up status for approx. 3 seconds as shown below in (Fig. 6.1-1) and (Fig. 6.1-2).

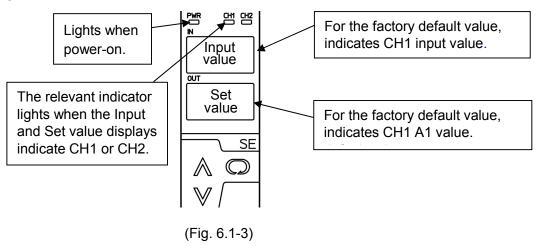


SE1□A

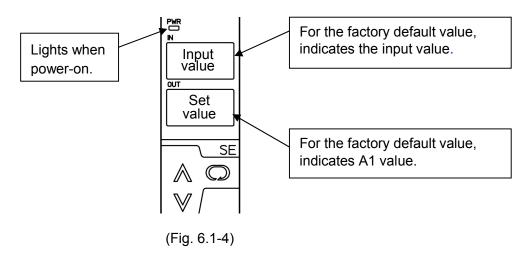


After that, the unit switches to RUN mode as shown below in (Fig. 6.1-3), (Fig. 6.1-4).

SE2□A



SE1□A



6.2 Basic Operation of Setup

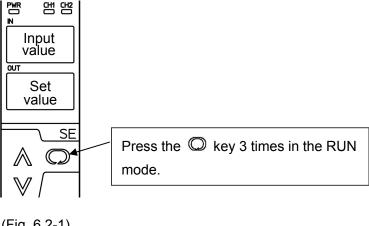
Setup is conducted in each function group. For the SE2 \square A, CH1 and CH2 should be set respectively.

- (E.g.) To enter the CH1 function group for the SE2VA:
 - (1) Press the key 3 times in the RUN mode. (Fig. 6.2-1)

 - (3) The unit moves to the "Input range" selection item in CH1 function group. To set (or select) each item, use the ♠ or ♥ key, and register the value with the ♠ key. (Fig. 6.2-3)

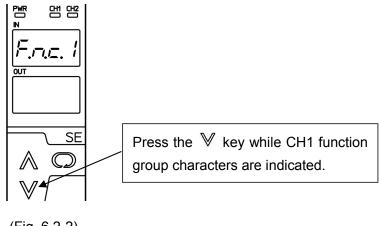
If the \bigcirc key is pressed at the last setting item of each group, the unit reverts to the RUN mode.

(1) RUN Mode



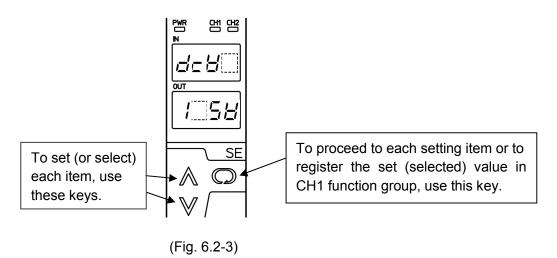
(Fig. 6.2-1)

(2) CH1 Function Group



(Fig. 6.2-2)

(3) Input Range Selection



6.3 Setup

6.3.1 Function Group

For the SE2 \square A, this is the function group for CH1.

To enter the function group, follow the procedures below.

| (1) F.n.c. ! | Press the key in the RUN mode until the left characters appear. |
|--------------|--|
| (2) / [| Press the \forall key. |
| | For the SE2EA and SE1EA, thermocouple input range appears. |
| | For the SE2RA and SE1RA, RTD input range appears. |
| | For the SE2AA and SE1AA, direct current input range appears. |
| | For the SE2VA and SE1VA, DC voltage input range appears. |

| Display | Name, Function, Setting F | Range | Factory Default Value |
|---------|---|------------|---------------------------------|
| in c | Input range (SE2EA, SE1E | A) | K -200 to 1370°C |
| OUT E | For the SE2EA and SE1E. | A, sele | cts a thermocouple input range. |
| | Selection item: | | |
| | EΠΕ: K | -200 | to 1370℃ |
| | <i>೬□५६</i> : к(*) | 0 | to 400°C |
| | J∭Ľ: J | -200 | to 1000°C |
| | <i>-□□Σ</i> : R | -50 | to 1760°C |
| | לבווב: S | -50 | to 1760°C |
| | <i>ЪШЕ</i> : В | 0 | to 1820℃ |
| | EΠΕ: E | -200 | to 800°C |
| | \ / | -200 | to 400°C |
| | n⊞E: N | -200 | to 1300°C |
| | <i>PL2⊑</i> : PL-Ⅱ | | to 1390°C |
| | בּ בּבּי: W5Re/W26Re | | to 2315℃ |
| | ದ್ದ : W3Re/W25Re | | |
| | ETTF: K | | |
| | \ / | | to 752 °F |
| | | | to 1832℉ |
| | <i>-</i> □□ <i>F</i> : R | | to 3200°F |
| | ′ጎⅢF: S | | to 3200°F |
| | <i>₽</i> | | to 3308°F |
| | | | to 1472°F |
| | () | | to 752 °F |
| | | | to 2372°F |
| | <i>PL2F</i> : PL-Ⅱ | - | to 2534°F |
| | ⊂ F: W5Re/W26Re | | to 4199°F |
| | d∭F: W3Re/W25Re | 32 1 | o 4199°F |

| Display | Name, Function, Setting Range | Factory Default Value | |
|-----------|---|---------------------------------------|--|
| | Input range (SE2RA, SE1RA) | Pt100 -200 to 850℃ | |
| OUT PT | For the SE2RA and SE1RA, selects a RTD input range. | | |
| | Selection item: | | |
| | <i>PՐ□ℂ</i> : Pt100 (*) -20 | 0 to 850℃ | |
| | <i> </i> | | |
| | <i>P</i> 「□F:Pt100 (*) -32 | 8 to 1562°F | |
| | <i>JP</i> 「F: JPt100 (*) -32 | 8 to 932°F | |
| d c A | Input range (SE2AA, SE1AA) | 4 to 20 mA DC -1999 to 9999 | |
| 977 GR | • For the SE2AA and SE1AA, sel | ects a direct current input range. | |
| ''_ ''' | Selection item: | | |
| | 무료되는 4 to 20 mA DC -19 | | |
| | □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ | | |
| | □ 15月: 0 to 16 mA DC -19 | | |
| | <i>≧ 108</i> : 2 to 10 mA DC -19 | | |
| | □ □ □ □ □ □ 0 to 10 mA DC -19 | | |
| | /□5月: 1 to 5 mA DC -19 | | |
| IN | □□ /月: 0 to 1 mA DC -19 | | |
| dc8 | Input range (SE2VA, SE1VA) | • | |
| 1 5 H | • For the SE2VA and SE1VA, selects a DC voltage input range. | | |
| | • Selection item: | 201 200 | |
| | □□ /\(\text{\tiket{\texi}\text{\text{\texi}\text{\text{\text{\text{\texi}\til\text{\text{\text{\text{\text{\text{\text{\text{ | | |
| | □□5₺: 0 to 5 V DC -19 □□5₺: 1 to 5 V DC -19 | | |
| | | | |
| IN | ☐ /☐ /☐ : 0 to 10 V DC -19 Decimal point place | No decimal point | |
| dP | Selects the decimal point place. | | |
| OUT | Available for the SE2AA, SE2VA | | |
| | | and SE1RA with (*) range, "No decimal | |
| | point" and "1 digit after decimal | point" can be selected. | |
| | Selection item: | | |
| | □□□□: No decimal point | | |
| | □□□□□: 1 digit after decimal point □□□□□: 2 digits after decimal point □□□□□: 3 digits after decimal point | | |
| | | | |
| | | | |
| " | Scaling low limit -200 | (- , - , - , - , - | |
| -500 | -199 | 9 (SE2AA, SE2VA, SE1AA, SE1VA) | |
| | Sets scaling low little value. | | |
| | • Setting range: | | |
| | SE2EA, SE2RA, SE1EA and SE1RA: | | |
| | Input range low limit to Scaling high limit value | | |
| | SE2AA, SE2VA, SE1AA and SE1VA: | | |
| | -1999 to Scaling high limit value | | |

| Display | Name, Function, Setting F | Range | Factory Default Value |
|------------|--|---------------|------------------------------|
| 5/ L H | Scaling high limit | 1370 ℃ | (SE2EA, SE1EA) |
| оит | | 850℃ | (SE2RA, SE1RA) |
| i = i i ii | | 9999 | (SE2AA, SE2VA, SE1AA, SE1VA) |
| | Sets scaling high limit value. | | |
| | Setting range: | | |
| | SE2EA. SE2RA, SE1EA and SE1RA: | | |
| | Scaling low limit to Input range high limit | | |
| | SE2AA, SE2VA, SE1AA and SE1VA: | | |
| | Scaling low limit to 9999 | | |
| F:L: | Filter time constant | | 0.0 sec |
| | Sets filter time constant. Input fluctuation due to noise can be reduced. | | |
| iii | | | |
| | Setting range: 0.0 to 10.0 sec | | |
| '5 p | Sensor correction | 0.0℃ | (SE2EA, SE2RA, SE1EA, SE1RA) |
| | | 0 | (SE2AA, SE2VA, SE1AA, SE1VA) |
| iii | Sets sensor correction value. | | |
| | Input value = Current input value +(Sensor correction value) | | |
| | Setting range: | | |
| | SE2EA, SE2RA, SE1EA and SE1RA: -100.0 to 100.0℃ (℉) | | |
| | SE2AA, SE2VA, SE1AA and SE1VA: -1000 to 1000 | | |

| Display | Name, Function, Setting Range | Factory Default Value | |
|---------|--|--|--|
| ÄL IF | A1 type | No alarm action | |
| OUT | • Selects an A1 type. Note: If an A1 type is changed, the A1 value defaults to 0 (0.0). | | |
| l##J | | | |
| | Selection item: | | |
| | : No alarm action | | |
| | Harrie High limit alarm | | |
| | Low limit alarm | | |
| | H∷∷ū: High limit alarm with standby | | |
| | 上ாம்: Low limit alarm with sta | ndby | |
| | Alarm action: | | |
| | High limit alarm | Low limit alarm | |
| | A1 hysteresis | A1 hysteresis | |
| | ATTIVSTCICSIS | AT Hysteresis | |
| | ON - | ON T | |
| | | | |
| | | | |
| | OFF 🔻 | OFF | |
| | A1 value | A1 value | |
| | High limit alarm | Low limit alarm | |
| | with standby | with standby | |
| | | - | |
| | A1 hysteresis | A1 hysteresis | |
| | ON WINNING | ON THE STATE OF TH | |
| | | | |
| | | | |
| | | OFF OFF | |
| | OFF — Market | <u> </u> | |
| | A1 value | A1 value | |
| | Standby functions. | ////// Standby functions. | |
| | | | |
| | | | |

| A2 type No alarm action • Selects an A2 type. Available for 6 points alarm output for the SE2□A. | | | |
|--|---|--|--|
| • Selects an A2 type. | | | |
| Available for 6 points alarm output for the SE2 A | | | |
| . transactor of a pointe diamin output for the OLL | | | |
| Note: If an A2 type is changed, the A2 value defaults to 0 (0.0). | | | |
| Selection item: | | | |
| No alarm action | | | |
| High limit alarm | | | |
| | L Low limit alarm | | |
| High limit alarm with standby | | | |
| ட்டைப்: Low limit alarm with standby | | | |
| Alarm action: | | | |
| Refer to the A1 action. (p.33) | | | |
| No alarm action | | | |
| Selects an A3 type. | | | |
| Available for 6 points alarm output for the SE1LIA and SE2LIA. | | | |
| | Note: If an A3 type is changed, the A3 value defaults to 0 (0.0). | | |
| | Selection item: High limit alarm High limit alarm | | |
| | | | |
| | | | |
| Low limit alarm | | | |
| High limit alarm with standby | | | |
| ட்டம்: Low limit alarm with standby | | | |
| • Alarm action: | | | |
| Refer to the A1 action. (p.33) | | | |
| No alarm action Soloste on A4 type No alarm action | | | |
| • Selects an A4 type. Available for 6 points alarm output for the SE1 A | | | |
| Available for 6 points alarm output for the SE1 Note: If an A4 type is changed, the A4 value defaults to 0 (0.0). | | | |
| • Selection item: | | | |
| - Selection term. | | | |
| Hamilt alarm | | | |
| L Low limit alarm | | | |
| High limit alarm with standby | | | |
| L Low limit alarm with standby | | | |
| • Alarm action: | | | |
| Refer to the A1 action. (p.33) | | | |

| Display Name, Function, Setting Range Factory De | fault Value | | |
|--|--|--|--|
| P _L 5F A5 type No alarm action | | | |
| • Selects an A5 type. | · · | | |
| Available for 6 points alarm output for the SE1LA. | Available for 6 points alarm output for the SE1□A. | | |
| Note: If an A5 type is changed, the A5 value defau | ılts to 0 (0.0). | | |
| Selection item: | | | |
| No alarm action | | | |
| High limit alarm | | | |
| Low limit alarm | | | |
| High limit alarm with standby | | | |
| とここに Low limit alarm with standby | | | |
| Alarm action: Refer to the A1 action. (p.33) | | | |
| \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | | | |
| • Selects an A6 type. | | | |
| Available for 6 points alain output for the SL ILA. | | | |
| Note: If an A6 type is changed, the A6 value defau | ılts to 0 (0.0). | | |
| | Selection item: | | |
| | -i-i-: No alarm action | | |
| 1 | High limit alarm | | |
| | L Low limit alarm | | |
| | Hamia: High limit alarm with standby | | |
| Land: Low limit alarm with standby | | | |
| • Alarm action: Refer to the A1 action. (p.33) | | | |
| | A1 Energized/De-energized Energized | | |
| • Selects A1 action Energized or De-energized. Not available if [(No alarm action) is selected | in [A1 tuno] | | |
| • Selection item: | iii [A i type]. | | |
| nonL: Energized | | | |
| アピカ: De-energized | | | |
| Regized/De-energized Energized | | | |
| • Selects A2 action Energized or De-energized. | | | |
| Not available if EIEEE (No alarm action) is selected | in [A2 type] | | |
| • Selection item: | [/ LZ typo]. | | |
| npnL: Energized | | | |
| ァモビウ: De-energized | | | |
| National Barbara State | | | |
| Lour Le Selects A3 action Energized or De-energized | | | |
| Not available if Eile (No alarm action) is selected | in [A3 type]. | | |
| Selection item: | , | | |
| npāL: Energized | | | |
| r を はっ: De-energized | | | |

| Display | Name, Function, Setting Range | Factory Default Value | |
|---------|---|--------------------------------------|--|
| BYL A | A4 Energized/De-energized | Energized | |
| OUT | Selects A4 action Energized or De-energized. Not available if [A4 type]. Selection item: | | |
| ''' | | | |
| | | | |
| | កត្តិដ: Energized | | |
| | ァをはっ: De-energized | | |
| RSLA | A5 Energized/De-energized | Energized | |
| OUT | Selects A5 action Energized or D | - | |
| | Not available if ::::::::::::::::::::::::::::::::::: | | |
| | Selection item: | | |
| | nonL: Energized | | |
| INI | ァミ思う: De-energized | | |
| ¤5L⊼ | A6 Energized/De-energized | Energized | |
| ngāļ | Selects A6 action Energized or D | _ | |
| | Not available if [(No alarm | n action) is selected in [A6 type]. | |
| | Selection item: | | |
| | ngāL: Energized | | |
| IN | ァミピウ: De-energized | | |
| H IHd | A1 HOLD function | OFF | |
| OUT | Selects OFF or ON for A1 HOLD | | |
| | If alarm HOLD is selected, once A | • | |
| | will be maintained until power is turned OFF. Not available if [(No alarm action) is selected in [A1 type]. | | |
| | Selection item: | i action) is selected in [A i type]. | |
| | nanE: OFF | | |
| | Hald: ON | | |
| IN_ | A2 HOLD function | OFF | |
| NT SHE | Selects OFF or ON for A2 HOLD | | |
| nonE | If alarm HOLD is selected, once A | | |
| | will be maintained until power is to | • | |
| | Not available if | | |
| | Selection item: | | |
| | nanE: OFF | | |
| | Hald: ON | | |
| ¤3Hd | A3 HOLD function | OFF | |
| OUT | Selects OFF or ON for A3 HOLD function. If alarm HOLD is selected, once A3 activates, A3 output ON status will be maintained until power is turned OFF. Not available if [Selected] (No alarm action) is selected in [A3 type]. | | |
| nonE | | | |
| | | | |
| | | | |
| | Selection item: | | |
| | nonE: OFF | | |
| | Hald: ON | | |

| Display | Name, Function, Setting Range | je Factory Default Value | | |
|--|---|---|--|--|
| RYHd | A4 HOLD function | OFF | | |
| out nonE | Selects OFF or ON for A4 HOLD function. | | | |
| ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' | If alarm HOLD is selected, once A4 activates, A4 output ON status | | | |
| | will be maintained until power | s turned OFF. | | |
| | Not available if [(No ala | arm action) is selected in [A4 type]. | | |
| | Selection item: | | | |
| | οροξ: OFF | | | |
| | Hald: ON | | | |
| ÄSHd | A5 HOLD function | OFF | | |
| OUT | Selects OFF or ON for A5 HO | | | |
| | | e A5 activates, A5 output ON status | | |
| | will be maintained until power | | | |
| | 1 · · · · · · · · · · · · · · · · · · · | arm action) is selected in [A5 type]. | | |
| | Selection item: | | | |
| | nonE: OFF | | | |
| IN | Hald: ON | OFF | | |
| Ä5Hd | A6 HOLD function | OFF | | |
| OUT DDDE | Selects OFF or ON for A6 HOLD function. | | | |
| | If alarm HOLD is selected, once A6 activates, A6 output ON status | | | |
| | will be maintained until power | s turned OFF. arm action) is selected in [A6 type]. | | |
| | Selection item: | arm action) is selected in [A6 type]. | | |
| | nonE: OFF | | | |
| | Hald: ON | | | |
| Ä IHY | A1 hysteresis 1.0 | °C (SE2EA, SE2RA, SE1EA, SE1RA) | | |
| | 1.0 | , | | |
| OUT LE | Sets A1 action hysteresis | 70 (82270), 82277, 82770, 82777 | | |
| | Not available if [[A1 type]. | | | |
| | • Setting range: | | | |
| | SE2EA, SE2RA, SE1EA and S | E1RA: 0.1 to 100.0℃ (℉) | | |
| | 1 | E1VA: 0.1 to 100.0% of input span | | |
| ¤5H3 | A2 hysteresis 1.0 | | | |
| OUT. | 1.0 | % (SE2AA, SE2VA, SE1AA, SE1VA) | | |
| | Sets A2 action hysteresis | | | |
| | Not available if | arm action) is selected in [A2 type]. | | |
| | Setting range: | | | |
| | SE2EA, SE2RA, SE1EA and S | E1RA: 0.1 to 100.0℃ (℉) | | |
| SE2AA, SE2VA, SE1AA and SE1VA: 0.1 to 100.0% of input sp | | | | |

| Display | Name, Function, Setting F | Range | Factory Default Value | |
|--------------|---|---------|------------------------------------|--|
| ₽∃HY | A3 hysteresis | 1.0℃ | (SE2EA, SE2RA, SE1EA, SE1RA) | |
| OUT III | | 1.0% | (SE2AA, SE2VA, SE1AA, SE1VA) | |
| iii (, | Sets A3 action hysteresis | | | |
| | Not available if | o alarm | action) is selected in [A3 type]. | |
| | Setting range: | | | |
| | SE2EA, SE2RA, SE1EA a | | ` ′ | |
| | SE2AA, SE2VA, SE1AA a | nd SE1 | VA: 0.1 to 100.0% of input span | |
| BARA BARA | A4 hysteresis | 1.0℃ | (SE1EA, SE1RA) | |
| OUT. | | 1.0% | (SE1AA, SE1VA) | |
| | Sets A4 action hysteresis | | | |
| | , | o alarm | action) is selected in [A4 type]. | |
| | Setting range: | | | |
| | SE2EA, SE2RA, SE1EA a | | ` ' | |
| | | | VA: 0.1 to 100.0% of input span | |
| RSHY | A5 hysteresis | 1.0℃ | , , | |
| OUT. | | 1.0% | (SE1AA, SE1VA) | |
| ::::: | Sets A5 action hysteresis | | | |
| | | o alarm | action) is selected in [A5 type]. | |
| | Setting range: | | | |
| | SE2EA, SE2RA, SE1EA a | | ` , | |
| IN | | | VA: 0.1 to 100.0% of input span | |
| ¤8H¥ | A6 hysteresis | 1.0℃ | (SE1EA, SE1RA) | |
| | | 1.0% | (SE1AA, SE1VA) | |
| | • Sets A6 action hysteresis Not available if [(No alarm action) is selected in [A6 type]. | | | |
| | Setting range: | o alam | raction) is selected in [A6 type]. | |
| | SE2EA, SE2RA, SE1EA a | nd SE1 | PA: 0.1 to 100 0°C (°F) | |
| | | | VA: 0.1 to 100.0% of input span | |
| Ä 188 | A1 delay time | | 0 sec | |
| | Sets A1 action delay time. | | 0 360 | |
| OUT | A1 output does not turn ON until the set delay time has elapsed after | | | |
| | the input enters the A1 output range. | | | |
| | • | • | action) is selected in [A1 type]. | |
| | • Setting range: 0 to 9999 s | | assetty to colocios in [711 typo]. | |
| | County range. o to 0000 o | | | |

| Display | Name, Function, Setting Range | Factory Default Value | |
|--------------|--|--------------------------------------|--|
| ¤544 | A2 delay time | 0 sec | |
| OUT | Sets A2 action delay time. A2 output does not turn ON until the set delay time has elapsed after | | |
| iiiiii | | | |
| | the input enters the A2 output ran | ge. | |
| | Not available if [(No alarm | action) is selected in [A2 type]. | |
| | Setting range: 0 to 9999 sec | | |
| Ä3dY | A3 delay time | 0 sec | |
| OUT | Sets A3 action delay time. | | |
| :!! | A3 output does not turn ON until t | he set delay time has elapsed after | |
| | the input enters the A3 output ran | • | |
| | Not available if [[[]]] (No alarm | action) is selected in [A3 type]. | |
| | Setting range: 0 to 9999 sec | | |
| H444 | A4 delay time | 0 sec | |
| OUT | Sets A4 action delay time. | | |
| \ | | the set delay time has elapsed after | |
| | the input enters the A4 output ran | | |
| | Not available if [(No alarm action) is selected in [A4 type]. | | |
| | Setting range: 0 to 9999 sec | | |
| <u> 8523</u> | A5 delay time | 0 sec | |
| оит | Sets A5 action delay time. | | |
| \ | • | the set delay time has elapsed after | |
| | the input enters the A5 output ran | <u> </u> | |
| | Not available if (No alarm | action) is selected in [A5 type]. | |
| | Setting range: 0 to 9999 sec | | |
| Ä534 | A6 delay time | 0 sec | |
| OUT | Sets A6 action delay time. A6 output does not turn ON until the set delay time has elapsed after | | |
| i | | | |
| | the input enters the A6 output range. | | |
| | Not available if [A6 type]. | | |
| | Setting range: 0 to 9999 sec | | |

6.3.2 CH2 Function Group

Available only for the SE2 \square A.

To enter the CH2 Function Group, follow the procedures below.

- (1) $F. \neg c. \vec{c}$ In the RUN mode, press the \square key until the left characters appear.
- (2) $\lceil c \rceil$ Press the \forall key.

For the SE2EA, thermocouple input range selection item appears.

For the SE2RA, RTD input range selection item appears.

For the SE2AA, direct current input range selection item appears.

For the SE2VA, DC voltage input range selection item appears.

Setting items are the same as those of Section "6.3.1 Function Group". (Pages 30 to 39)

Set up the unit referring to the explanation of Section "6.3.1 Function Group".

6.3.3 Special Function Group

For the SE2□A, setting items are common to CH1 and CH2.

To enter the Special function group, follow the procedures below.

- (1) $\neg \mathcal{F}. \neg \mathcal{E}$ In the RUN mode, press the \square key until the left characters appear.
- (2) L□□□ Press the W key. "Set value lock" appears.

| Display | Name, Function, Setting Range | Factory Default Value | |
|------------|---|---------------------------|--|
| Lock | Set value lock | Unlock | |
| OUT | Locks the set values to prevent set | tting errors. | |
| | Selection item: | | |
| | Elelele Unlock | | |
| | Lロロ /: Lock 1 (None of the set v | alues can be changed.) | |
| | 上ヮჺ♂: Lock 2 (Only alarm settin | g groups can be changed.) | |
| r T A | Input sampling period | 250 ms | |
| оит 250 | Selects the input sampling period. | | |
| | Selection item: | | |
| | □□ 2'5: 25 ms | | |
| | □ / <i>⋶</i> 5: 125 ms | | |
| | <i>□250</i> : 250 ms | | |
| LI II | Auto-light function | Disabled | |
| OUT | Selects Auto-light function Enabled/Disabled. | | |
| | Selection item: | | |
| | Disabled | | |
| | リっと: Enabled | | |

| Display | Name, Function, Setting | Range | Factory Default Value | |
|-------------------|---|-------------------------------|---|--|
| <u> </u> - - | Display selection | CH1 inp | ut value/A1 value (SE2⊟A) | |
| out ⊭H∏ / | | Input value /A1 value (SE1□A) | | |
| | Selects items to be indicated | ited on the | displays. | |
| | Selection item: | | | |
| | SE2□A: | | | |
| | <i>⊑H</i> □ /: CH1 input va | | | |
| | ਟੁ ਮ⊟ਟੋ: CH2 input va | | | |
| | / ¬□□: Input value (| | | |
| | | (Only the | Power indicator is lit.) | |
| | SE1□A: | | | |
| | ç H□ /: Input value // | 41 value | | |
| | Input value | | | |
| | ካይና∷: A1 value | | | |
| IN | | (Only the | Power indicator is lit.) | |
| r, ae | Indication time | | 00.00 (Continuous indication) | |
| оит 0000 | | | lays after final key operation. | |
| | <u> </u> | | ion (Only the Power indicator is lit.)] | |
| | is selected in [Display sel | - | | |
| | ' ' ' ' ' | the Powe | r indicator is lit.) after the indication | |
| | time has elapsed. | OLID MC | SEL : | |
| | When the \mathbb{A} , \mathbb{V} , \mathbb{O} or SUB-MODE key is pressed, or when power | | | |
| | is turned ON again, the d | isplays wi | ll light again. | |
| | Setting Range: | | | |
| | 00.00: Continuous indicat | - | | |
| | 00.01 (1 second) to 60.00 |) (60 minu | tes) (Minutes.Seconds) | |

7. Alarm Settings

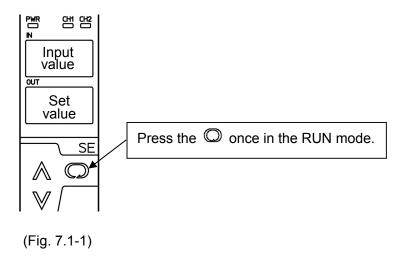
7.1 Basic Operation of Alarm Settings

Alarm settings are conducted in the Alarm setting groups. For the SE2□A, CH1, CH2 should be set respectively.

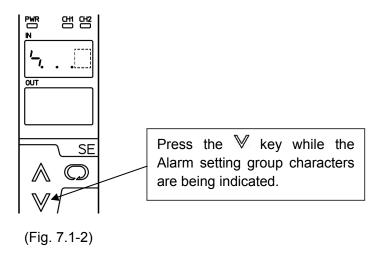
To enter the Alarm setting group, press the \bigcirc key in the RUN mode. (Fig. 7.1-1) Press the \bigvee key while Alarm setting group characters are being indicated. (Fig. 7.1-2) The unit will proceed to the "A1 value" in the Alarm setting group. For alarm settings, use the \bigwedge or \bigvee key, and register the value with the \bigcirc key. (Fig. 7.1-3)

If the key is pressed at the last setting item, the unit will revert to the RUN mode.

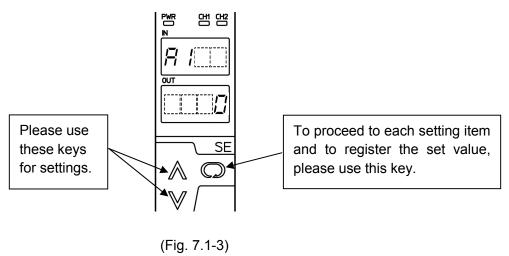
(1) RUN Mode



(2) Alarm Setting Group



(3) A1 Value



7.2 Alarm Settings

7.2.1 Alarm Setting Group

For the SE2 \square A, this is the alarm setting group for CH1.

To enter the Alarm setting group, follow the procedures below.

| (1) | ٦. | In the RUN mode, press the | key once. |
|-----|----|--------------------------------|-----------|
| | - | D 0 | |

| (2) | R | | Press the | \bigvee | key. "A1 | value" | appears. |
|-----|---|--|-----------|-----------|----------|--------|----------|
|-----|---|--|-----------|-----------|----------|--------|----------|

| Display | Name, Function, Setting Range | Factory Default Value | | |
|-----------------|---|-------------------------------------|--|--|
| R I | A1 value | 0°C (SE2EA, SE2RA, SE1EA, SE1RA) | | |
| OUT | | 0 (SE2AA, SE2VA, SE1AA, SE1VA) | | |
| | Sets the A1 value. | | | |
| | Not available if [[[[]]] (No alarm | action) is selected in [A1 type]. | | |
| | Setting range: | | | |
| | Scaling low limit to Scaling high li | mit | | |
| R2 | A2 value 0°C (SE2EA, SE2RA, SE1EA, SE1 | | | |
| OUT [| | 0 (SE2AA, SE2VA, SE1AA, SE1VA) | | |
| :::: <i>!</i> / | Sets the A2 value. | | | |
| | Not available if (No alarm | n action) is selected in [A2 type]. | | |
| | Setting range: | | | |
| | Scaling low limit to Scaling high li | | | |
| Ä3 | A3 value | 0°C (SE2EA, SE2RA, SE1EA, SE1RA) | | |
| OUT | | 0 (SE2AA, SE2VA, SE1AA, SE1VA) | | |
| · | Sets the A3 value. | | | |
| | Not available if | action) is selected in [A3 type]. | | |
| | Setting range: | | | |
| INI | Scaling low limit to Scaling high li | | | |
| RY | A4 value | 0°C (SE1EA, SE1RA) | | |
| OUT | | 0 (SE1AA, SE1VA) | | |
| | Sets the A4 value. | | | |
| | Not available if (No alarm | action) is selected in [A4 type]. | | |
| | • Setting range: | ., | | |
| IN | Scaling low limit to Scaling high li | | | |
| Ä5 | A5 value | 0°C (SE1EA, SE1RA) | | |
| OUT | . Coto the AF value | 0 (SE1AA, SE1VA) | | |
| | • Sets the A5 value. | a cation) is calcated in [AC tuna] | | |
| | Not available if [(No alarm | i action) is selected in [A5 type]. | | |
| | Setting range: Sealing low limit to Sealing high limit to | mit | | |
| IN | Scaling low limit to Scaling high li | mit 0°C (SE1EA, SE1RA) | | |
| R5 | A6 value | ` ' | | |
| OUT D | 0 (SE1AA, SE1VA) | | | |
| | • Sets the A6 value. | | | |
| | Not available if (No alarm action) is selected in [A6 type]. • Setting range: | | | |
| | Scaling low limit to Scaling high limit | | | |
| | Scaling low little to Scaling riigh little | | | |

7.2.2 CH2 Alarm Setting Group

Available only for the SE2 \square A.

To enter the CH2 alarm setting group, follow the procedures below.

(1) '\alpha \alpha \square \square \square \text{In the RUN mode, press the } \infty \text{ key twice.}

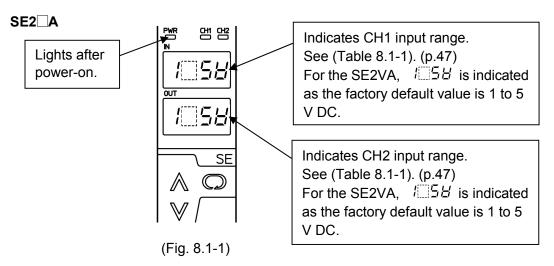
(2) B l Press the ♥ key. "A1 value" appears.

Setting items are the same as those of Section "7.2.1 Alarm setting group". (p.44) Refer to Section "7.2.1 Alarm setting group" for alarm settings.

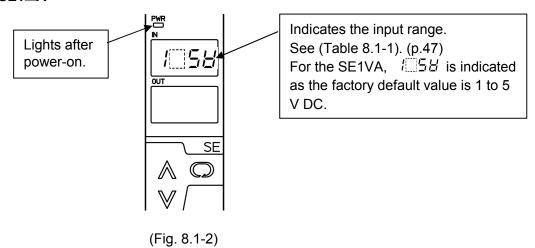
8. Operation

8.1 Indication after Power-on

After power-on, the unit moves to warm-up status for 3 seconds as shown below in (Fig. 8.1-1) and (Fig. 8.1-2).



SE1□A



(Table 8.1-1)

| (Table 6.1-1) | Input Display | | | | |
|---------------|--|--|--|--|--|
| Input | °C °F | | | | |
| K | 上□ℂ: -200 to 1370℃ 上□F: -328 to 2498℉ | | | | |
| K | <i>೬</i> ᠃ Ч | | | | |
| J | ப் ாட்: -200 to 1000℃ ப் ாட்: -328 to 1832℉ | | | | |
| R | ர⊡£: -50 to 1760℃ ர⊡ச: -58 to 3200℉ | | | | |
| S | Կ∷Հ: -50 to 1760℃ Կ∷Ր: -58 to 3200℉ | | | | |
| В | <i>Ъ</i> □ℂ: 0 to 1820℃ <i>Ъ</i> □Г: 32 to 3308℉ | | | | |
| E | E ☐ £: -200 to 800°C | | | | |
| Т | Γ□□Σ: -200 to 400°C | | | | |
| N | ო | | | | |
| PL-Ⅱ | <i>PL 2 ⊑</i> : 0 to 1390°C | | | | |
| W5Re/W26Re | շ∷ւն to 2315℃ շ∷ւԲ: 32 to 4199℉ | | | | |
| W3Re/W25Re | d | | | | |
| Pt100 | <i>P</i> Γ □ Γ : -200 to 850°C | | | | |
| JPt100 | <i>ವರ್೯</i> : -200 to 500℃ ರ್ವ೯೯: -328 to 932℉ | | | | |
| 4 to 20 mA DC | <i>닉ㄹ집유</i> : -1999 to 9999 | | | | |
| 0 to 20 mA DC | <i>□ ⊇ □ R</i> : -1999 to 9999 | | | | |
| 0 to 16 mA DC | <i>□ </i> | | | | |
| 2 to 10 mA DC | <i>⋶ ¦□R</i> : -1999 to 9999 | | | | |
| 0 to 10 mA DC | ☐ /☐R: -1999 to 9999 | | | | |
| 1 to 5 mA DC | /□5 <i>R</i> : -1999 to 9999 | | | | |
| 0 to 1 mA DC | □□ IR: -1999 to 9999 | | | | |
| 0 to 1 V DC | <i>□</i> □ / <i>出</i> : -1999 to 9999 | | | | |
| 0 to 5 V DC | ଘ∷5 <i>ଧ</i> : -1999 to 9999 | | | | |
| 1 to 5 V DC | /⊡5 <i>남</i> : -1999 to 9999 | | | | |
| 0 to 10 V DC | ଘ ≀ଘ∺: -1999 to 9999 | | | | |

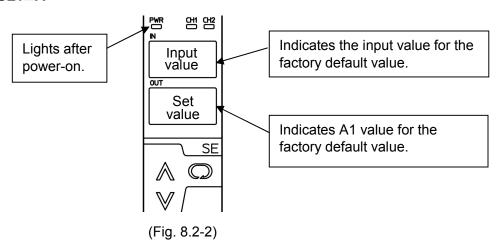
8.2 Unit Operation

The unit enters the RUN mode after 3-second warm-up indication as shown in (Fig. 8.2-1) and (Fig. 8.2-2).

SE2 A Lights after Ínput Indicates the CH1 input value power-on. value for the factory default value. OUT Set The relevant value indicator lights Indicates CH1 A1 value for the when the Input factory default value. SE and Set value displays indicate CH1 or CH2.

(Fig. 8.2-1)

SE1□A



Alarm Value Indication

If A1 value is selected in [Display selection] (*), indication can be changed by pressing the \bigwedge key evey one second as shown below.

SE1
$$\square$$
A: A1 value \rightarrow A2 value \rightarrow A6 value \rightarrow A1 value

When power is turned ON, the A1 value is indicated.

SE1 A: When EH (Input value/A1 value) or 5E (A1 value) is selected.

Indication when Alarm Output is ON

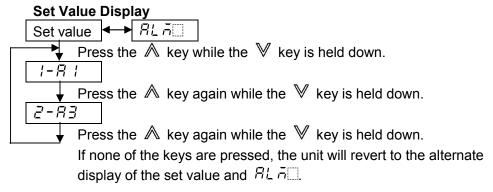
SE2□A:

When alarm output is ON, the relevant channel indicator with current alarm output ON will flash, and the contents selected in [Display selection] and $\exists L \, \bar{n} \square$ are alternately indicated on the Set value display.

If the \wedge key is pressed while holding down the \vee key, the channel with current alarm output ON and Alarm output number will be indicated.

When plural alarm outputs are ON, each alarm output can be displayed every time the $\mathbb A$ key is pressed while the $\mathbb V$ is held down.

(E.g.) When CH1 A1 and CH2 A3 are ON.



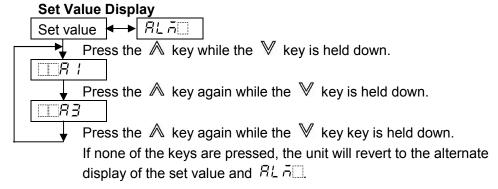
SE1□A:

When alarm output is ON, the contents selected in [Display selection] and $BL\bar{n}$ are alternately indicated on the Set value display.

If the \land key is pressed while holding down the \lor key, the alarm output number with current alarm output ON will be indicated.

If plural alarm outputs are ON, each alarm output can be displayed by pressing the \mathbb{A} key while the \mathbb{V} is held down.

(E.g.) When A1 and A3 are ON



Indication when input value is -200.0 (-2000) or less

When the range has a decimal point: For the indication of -200.0 or less, the input value and the minus (-) sign are indicated alternately.

When DC voltage or current input is selected, the indication of -2000 or less is the same as the above.

Indication when input value is 10000 or more

When DC voltage or current input is selected: For the indication of 10000 or more, the lower 4 digits of input value are flashing.

• Underrange, Overrange and Sensor Burnout indication

Underrange: If input value becomes -10% of the input span or less, "____" flashes on the Input display.

Overrange: If input value becomes 110% of the input span or more, " " " flashes on the Input display.

Indication time setting

If indication time is set, the displays will go off after the indication time has elapsed. (Only the power indicator remains lit.)

If power is turned ON again, or if any of the keys \wedge , \vee , \bigcirc or the SUB-MODE Key is pressed while displays are unlit, the displays will light again.

tions

| 9 | . Specificat |
|----|--------------------|
| lr | put Specifications |
| | SE2EA, SE1EA |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |

Input resistance: 1 $M\Omega$ or more

External resistance: 100 $\,\Omega$ or less, However, B: 40 $\,\Omega$ or less

Burnout: Upscale

Input:

| iiput. | | |
|--------------|----------------|---------------------|
| Thermocouple | Input I | Range |
| K | -200 to 1370°C | -328 to 2498°F |
| J | -200 to 1000°C | -328 to 1832°F |
| R | -50 to 1760°C | -58 to 3200°F |
| S | -50 to 1760°C | -58 to 3200°F |
| В | 0 to 1820°C | 32 to 3308°F |
| E | -200 to 800°C | -328 to 1472°F |
| Т | -200 to 400°C | -328 to 752°F |
| N | -200 to 1300°C | -328 to 2372°F |
| PL-Ⅱ | 0 to 1390°C | 32 to 2534°F |
| W5Re/W26Re | 0 to 2315°C | 32 to 4199°F |
| W3Re/W25Re | 0 to 2315°C | 32 to 4199°F |

The minimum input span is 50°C (100°F).

SE2RA, SE1RA

Input detection current: Approx. 0.2 mA

Allowable lead wire resistance: 10 Ω or less per wire

Burnout: Upscale

Input:

| RTD | Input Range | | |
|--------|---------------|----------------|--|
| Pt100 | -200 to 850°C | -328 to 1562°F | |
| JPt100 | -200 to 500°C | -328 to 932°F | |
| | | | |

The minimum input span is 50°C (100°F).

SE2AA, SE1AA

| Input | Shunt resistor |
|---------------|----------------|
| 4 to 20 mA DC | |
| 0 to 20 mA DC | 50 Ω |
| 0 to 16 mA DC | |
| 2 to 10 mA DC | 100 Ω |
| 0 to 10 mA DC | 100 32 |
| 1 to 5 mA DC | 200 Ω |
| 0 to 1 mA DC | 1 kΩ |

Connect a shunt resistor (sold separately) between input terminals.

SE2VA, SE1VA

| Input | Input Resistance | Allowable Signal Source Resistance |
|--------------|---------------------|------------------------------------|
| 0 to 1 V DC | 1 ΜΩ | 2 kΩ or less |
| 0 to 5 V DC | | |
| 1 to 5 V DC | | 1 kΩ or less |
| 0 to 10 V DC | | |

Output Specifications

| Dutput Specifications | | | | |
|--------------------------|--|--------------------|--|--|
| Alarm action | SE2□A: Up to 3 points alarm output for each channel can be selected. | | | |
| | SE1□A: Up to 6 points alarm output can be selected. | | | |
| | | | m type can be selected in [Alarm | |
| | type] from the following. | | 970 | |
| | High limit alarm | | Low limit alarm | |
| | A1 hysteresis A1 hysteresis | | | |
| | A1 hysteresis | A1 hysteresis | | |
| | OFF A1 value | | OFF A1 value | |
| | High limit alarm with standby | | Low limit alarm with standby | |
| | A1 hysteresis | | A1 hysteresis | |
| | ON | | ON | |
| | | | | |
| | OFF | | OFF OFF | |
| | A1 value | | A1 value | |
| | ////// Standby functions. | | ////// Standby functions. | |
| | ON/OFF action | | | |
| | Alarm hysteresis | SE2 | 2EA, SE2RA, SE1EA & SE1RA: | |
| | | | 0.1 to 100.0℃ (°F) | |
| | | | E2AA, SE2VA, SE1AA & SE1VA: | |
| | Alama dalam tima | | to 100.0% of input span | |
| | Alarm delay time Alarm | | 0 to 9999 sec | |
| | Energized/De-energized | Lile | Energized/De-energized, Selectable | |
| | Alarm HOLD function | OFF/ON, Selectable | | |
| A4 output (CEOEA) | | 1 | | |
| A1 output (SE2□A), | Relay contact, 1a | | 250 V AC (resistive load) | |
| A1, A2 outputs | 1 A =0. | | 3 A 250 V AC (resistive load) 1 A 250 V AC (inductive load cos <i>Φ</i> | |
| (SE1□A) | | | =0.4) | |
| | | | 100,000 cycles | |
| A2, A3 outputs | Open collector | | | |
| (SE2□A), | Control capacity | 0.1 | A 24 V DC | |
| A3 to A6 outputs (SE1□A) | . , | | | |

Performance

| CHOHIIance | |
|-----------------------|--|
| Reference input | SE2EA and SE1EA: |
| accuracy (at 23℃) | Within ±0.1% of each input span |
| | R, S inputs -50 to 200°C (-58 to 392°F): Within ± 6 °C(12°F) |
| | B input, 0 to 300℃ (32 to 572°F): Accuracy is not guaranteed. |
| | K, J, E, T, N inputs, Less than 0°C (32°F): Within ±0.4% of |
| | input span |
| | SE2RA and SE1RA: Within ±0.1% of each input span |
| | SE2AA, SE2VA, SE1AA and SE1VA: Within ±0.1% |
| Cold junction temper- | Within ±1° at -5 to 55° (SE2EA, SE1EA) |
| ature compensation | |
| accuracy | |
| Indication accuracy | Within Reference input accuracy ±1 digit |
| Input sampling period | 25 ms, 125 ms, 250 ms (Selectable via the keypad) |
| Temperature | ±0.015%/℃ or less |
| coefficient | |
| Insulation resistance | Input - Output - Power 10 MΩ or more, at 500 V DC |
| Dielectric strength | Input - Output - Power 2.0 kV AC for 1 minute |

General Structure

| Case | Flame-resistant resin, Color: Light gray | | |
|---------|---|--|--|
| Panel | Membrane sheet | | |
| Setting | Setting by the front keypad | | |
| Display | Input display: 7-segment, Red LED display 4-digit | | |
| | Character size: 10 x 4.6 mm (H x W) | | |
| | Set value display: 7-segment, Red LED display 4-digit | | |
| | Character size: 10 x 4.6 mm (H x W) | | |
| | Power indicator: Green LED | | |
| | CH1 indicator: Yellow LED (SE2□A) | | |
| | CH2 indicator: Yellow LED (SE2□A) | | |

Installation Specifications

| Power supply | 100 to 240 V AC 50/60 Hz, 24 V AC/DC 50/60 Hz |
|---------------------|---|
| Allowable voltage | 85 to 264 V AC, 20 to 28 V AC/DC |
| fluctuation | |
| Power consumption | Approx. 9 VA |
| Ambient temperature | -5 to 55℃ |
| Ambient humidity | 35 to 85%RH (non-condensing) |
| Weight | Approx. 200g (socket included) |
| Mounting | DIN rail |
| External dimensions | W30 x H88 x D108mm (socket included) |

Attached Functions

| Auto-light function | Automatically measures and controls brightness of the displays |
|---------------------|---|
| | to conserve power. |
| Power failure | The setting data is backed up in the non-volatile IC memory. |
| countermeasure | |
| Self-diagnosis | The CPU is monitored by a watchdog timer, and if an abnormal |
| | status is found on the CPU, the instrument is switched to |
| | warm-up status, turning all outputs OFF. |
| Cold junction | Available only for the SE2EA and SE1EA. |
| temperature | This detects the temperature at the connecting terminal between |
| compensation | the thermocouple and the instrument, and always maintains it at |
| | the same status as if the reference junction location temperature |
| | was at 0°C (32°F). |

10. Troubleshooting 10.1 Indication

| Problem | Presumed Cause and Solution |
|----------------------------|---|
| The Input display is | The sensor may be burnt out. |
| flashing " " or | Change each sensor. |
| <u>"</u> ". | Check whether the sensor is securely connected to the |
| The input value does not | input terminals of the instrument. |
| change. | Ensure that the sensor terminals are securely connected to the input terminals of the instrument. |
| | Check the input signal source. |
| | Check whether polarity of thermocouple or compensating lead wire is correct. |
| | Check whether codes (A, B, B) of the RTD match the |
| | instrument terminals. |
| | Ensure that they are wired properly. |
| The indication of the | Check whether the sensor input and temperature unit |
| Input display is irregular | (°C/°F) settings are correct. |
| or unstable. | Ensure that sensor type and temperature unit (°C/°F) are set properly. |
| | Check whether the sensor correction value is suitable. |
| | Set it to a suitable value. |
| | AC leaks into the sensor circuit. |
| | Use an ungrounded type sensor. |
| | There may be equipment that interferes with or makes noise near the unit. |
| | Keep equipment that interferes with or makes noise away from the unit. |

10.2 Key Operation

| Problem | Presumed Cause and Solution |
|----------------------------|--|
| Settings are not possible. | "Lock 1" or "Lock 2" is selected in [Set value lock]. Select "Unlock". |

10.3 Operation

| Problem | Presumed Cause and Solution |
|-----------------------|---|
| Alarm output does not | Check whether alarm value and alarm delay time have |
| turn ON. | been set to suitable values. |
| | Check whether Alarm type and Alarm Energized/ |
| | De-energized have been selected correctly. |
| Alarm output does not | Check whether alarm value and alarm hysteresis have |
| turn OFF. | been set to suitable values. |
| | Check whether Alarm type and Alarm Energized/ |
| | De-energized have been selected correctly. |
| | Check whether Alarm HOLD function is working. |
| | To turn the alarm output OFF while Alarm HOLD function is |
| | working, turn the power to the unit OFF. |

11. Character Table

Alarm Setting Group

SE2

A: CH1 and CH2 have respective setting items.

| Display | Setting Item | Factory Default Value | Data |
|---------------|--------------|--|------|
| $R = \square$ | A1 value | 0°C (SE2EA, SE2RA, SE1EA, SE1RA) | |
| | | 0 (SE2AA, SE2KA, SE1AA, SE1KA) 0 (SE2AA, SE2VA, SE1AA, SE1VA) | |
| <i>R3</i> | A3 value | (SLZAA, SLZVA, SLIAA, SLIVA) | |
| 84 | A4 value | 0°C (SE1EA SE1DA) | |
| <i>R</i> 5 | A5 value | - 0°⊂ (SE1EA, SE1RA) - 0 (SE1AA, SE1VA) | |
| 85 | A6 value | U (SEIAA, SEIVA) | |

Function Group

SE2

A: CH1 and CH2 have respective setting items.

| Display | Setting Item | Factory Default Value | Data |
|---------|------------------------------|--|------|
| Tell | Input range(thermocouple) | | |
| rrd0 | Input range (RTD) | Pt100 -200 to 850°C (SE2RA, SE1RA) | |
| dcR0 | Input range (direct current) | 4 to 20 mA DC -1999 to 9999 (SE2AA, SE1AA) | |
| dc80 | Input range (DC voltage) | 1 to 5 V DC -1999 to 9999 (SE2VA, SE1VA) | |
| ₫₽ | Decimal point place | No decimal point | |
| 5566 | Scaling low limit | -200°C (SE2EA, SE2RA, SE1EA, SE1RA) -1999 (SE2AA, SE2VA, SE1AA, SE1VA) | |
| SELH | Scaling high limit | 1370°C (SE2EA, SE1EA) 850°C (SE2RA, SE1RA) 9999 (SE2AA, SE2VA, SE1AA, SE1VA) | |
| FILT | Filter time constant | 0.0 sec | |
| '> o 🔛 | Sensor correction | 0.0°C (SE2EA, SE2RA, SE1EA, SE1RA) 0 (SE2AA, SE2VA, SE1AA, SE1VA) | |
| AL IF | A1 type | | |
| RL2F | A2 type | | |
| RL 3F | A3 type | No alarm action | |
| AL YF | A4 type | NO diaim action | |
| RL SF | A5 type | | |
| RL BF | A6 type | | |
| RILA | A1 Energized/De-energized | | |
| R2LA | A2 Energized/De-energized | | |
| 83LA | A3 Energized/De-energized | Energized | |
| RYLA | A4 Energized/De-energized | Litergized | |
| RSLA | A5 Energized/De-energized | | |
| | A6 Energized/De-energized | | |
| | A1 HOLD function | | |
| 8288 | A2 HOLD function | OFF | |
| 83Hd | A3 HOLD function | | |
| RAHA | A4 HOLD function | | |

| Display | Setting Item | Factory Default Value | Data |
|---------|------------------|---|------|
| RSHd | A5 HOLD function | OFF | |
| REHd | A6 HOLD function | | |
| R IHY | A1 hysteresis | 1.0°C (SE2EA, SE2RA, SE1EA, SE1RA) 1.0% (SE2AA, SE2VA, SE1AA, SE1VA) | |
| 85HA | A2 hysteresis | | |
| RBHY | A3 hysteresis | | |
| BARA | A4 hysteresis | 1.0°C (SE1EA, SE1RA) 1.0% (SE1AA, SE1VA) | |
| RSHY | A5 hysteresis | | |
| RSHY | A6 hysteresis | | |
| 8 192 | A1 delay time | 0 sec | |
| 8592 | A2 delay time | | |
| 8365 | A3 delay time | | |
| RYZY | A4 delay time | | |
| RSdY | A5 delay time | | |
| 8844 | A6 delay time | | |

Special Function Group

SE2

A: Setting items are common to CH1 and CH2.

| Display | Setting Item | Factory Default Value | Data |
|---------|-----------------------|--|------|
| | Set value lock | Unlock | |
| r III A | Input sampling period | 250 ms | |
| L! [][| Auto-light function | Disabled | |
| | Display selection | CH1 input value/A1 value (SE2□A) Input value/A1 value (SE1□A) | |
| TI AE | Indication time | 00.00 (Continuous indication) | |

****** Inquiries ******

For any inquiries about this unit, please contact the vendor where you purchased the unit or our agency after checking the following.

(e.q.)

• Model SE2EA-1-0-0 • Serial number No. 124F05000

In addition to the above, please let us know the details of malfunction, or discrepancy, and the operating conditions.

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