

***REX-C100***

***REX-C700***

***REX-C400***

***REX-C900***

***REX-C410***

**INITIAL SETTING MANUAL**

**RKC® RKC INSTRUMENT INC.**

This is a manual for the initial setting of REX-C100, -C400, -C410, -C700, -C900.  
Do not touch or adjust parts other than those covered in this manual.  
The instrument was manufactured and delivered under close quality control by us.  
However, if some subject troubled or noted, your kindly announce and advice to  
our business department, nearest business office also agent where you bought is  
very much appreciated.

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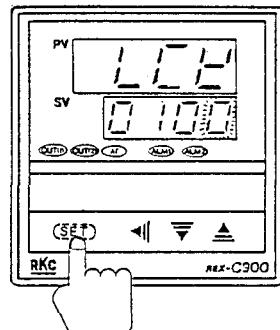
## CONTENTS

	Page
1 . Initial set mode changing	
1.1 Entering the initial set mode -----	1
1.2 Exiting the initial set mode -----	2
2 . Setting	
2.1 Description of each parameter -----	3
2.2 Each parameter setting -----	4
(1) Input type selection [ <i>SL 1</i> ] -----	5
(2) Engineering unit and cooling type selection [ <i>SL 2</i> ] -----	6
(3) Selection of break alarm (HBA, LBA) etc. [ <i>SL 3</i> ] -----	7
(4) First alarm (ALM1) type selection [ <i>SL 4</i> ] -----	8
(5) Second alarm (ALM2) type selection [ <i>SL 5</i> ] -----	9
(6) Control output selection etc. [ <i>SL 6</i> ] -----	11
(7) Energize/de-energize alarm selection etc. [ <i>SL 7</i> ] -----	12
(8) PV bias setting [ <i>PB</i> ] -----	13
(9) Differential gap setting of ON/OFF action [ <i>OH</i> ] -----	13
(10) Differential gap setting of first alarm (ALM1) [ <i>RH 1</i> ] -----	13
(11) Differential gap setting of second alarm (ALM2) [ <i>RH 2</i> ] -----	13
(12) High-limit setting for set-value (SV) [ <i>SL H</i> ] -----	14
(13) Low-limit setting for set-value (SV) [ <i>SL L</i> ] -----	14
2.3 Each parameter checks -----	15

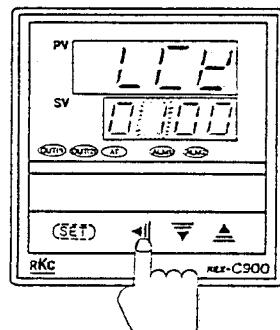
## 1. Initial set mode changing

### 1.1 Entering the initial set mode

- (1) Press the (SET) key to display the set data locking parameter symbol (LCE) on the measured-value (PV) display unit. At this time, the least significant digit on the set-value (SV) display unit lights brightly. The digit which lights brightly is settable.

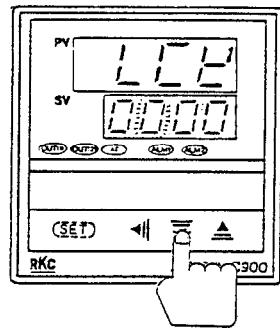


- (2) Press the  $\leftarrow$  key to shift the digit which lights brightly up to the hundreds digit. The digit which lights brightly shifts as follows every time the  $\leftarrow$  key is pressed.

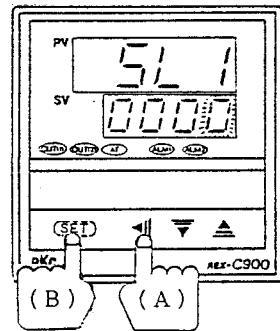


- (3) Press the  $\downarrow$  key to set “0”. Pressing the  $\uparrow$  key increments numerals, and pressing the  $\downarrow$  key decrements numerals.

0000 : No initial set mode locked.



- (4) Keep pressing both the  $\leftarrow$  (A) and (SET) (B) keys simultaneously for more than 5 sec. can enter the initial set mode.



#### Cautions

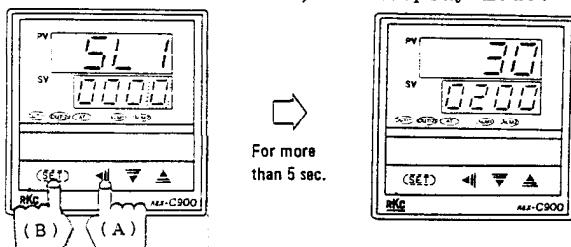
1. In order to enter the initial set mode, always set the set data locking (LCE) to “0000”. Any setting other than “0000” cannot enter the initial set mode.
2. If the controller is set to the initial set mode, all outputs are turned OFF.
3. An example of the REX-C900 is described here, but the same procedure applies to other controllers (REX-C100, -C400, -C410, and -C700).

Initial set status

## 1. 2 Exiting the initial set mode

### (1) Exits from the initial set mode

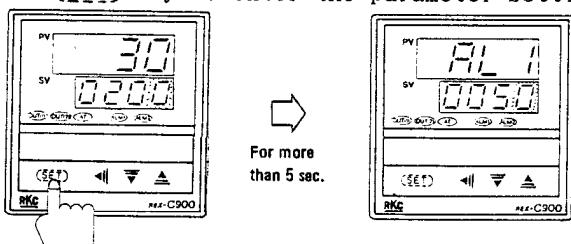
Keep pressing both the **◀** key (A) and **(SET)** (B) keys simultaneously for more than 5 sec. can enter the PV/SV display mode.



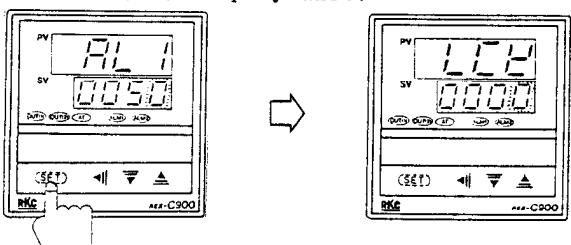
※ Even if the controller exits from the initial set mode at any point, the setting mode so far set becomes valid.

### (2) Locks the initial set mode (Change the content of set data lock setting)

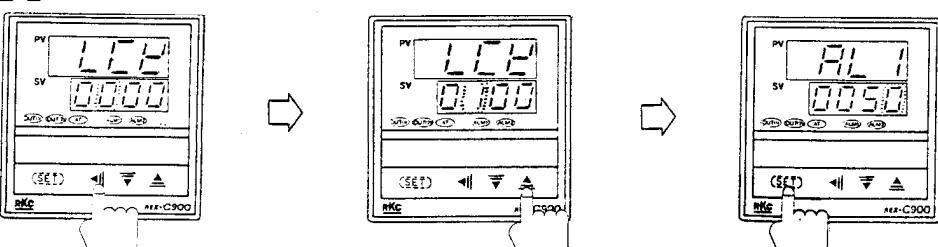
- ① Press the **(SET)** key to enter the parameter setting mode.



- ② Press the **(SET)** key by required number of times to show "LLC" on the measured-value (PV) display unit.



- ③ Press the **◀** and **▲** keys to set "0 100". Press the **(SET)** key to register "0 100".



#### Caution

If the controller exits from the initial set mode, confirm that set data lock setting is set to "0 100".

<Each status when power failure occurs in the initial set mode>

- Setting prior to power failure is valid.
- Instantaneous power failure (within 20 msec.) does not exert bad influence on the instrument.
- If long power failure occurs, the instrument exits from its initial set mode. After power recovery, the instrument is set to the PV/SV display mode. The measured-value(PV) at this time shows that at the time of power recovery, and the set-value(SV) is the same as that before power failure.

## 2. Setting

### 2.1 Description of each parameter

"*SL 1*" appears on the display, and every press of (SET) key advances the parameter symbol as shown in the following table. After one cycle, the display shows "*SL 1*".

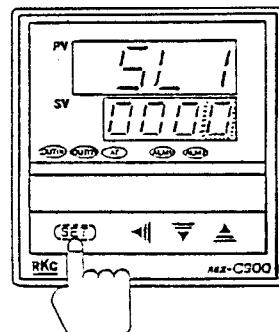
MEASURED-VALUE (PV) DISPLAY UNIT	SETTING DESCRIPTION
<i>SL 1</i>	Input type selection
<i>SL 2</i>	Engineering unit selection (°C, °F) Cooling type selection
<i>SL 3</i>	Heater break alarm (HBA) selection Control loop break alarm (LBA) selection Selection of control loop break alarm output terminals
<i>SL 4</i>	First alarm (ALM1) type selection First alarm (ALM1) hold action selection
<i>SL 5</i>	Second alarm (ALM2) type selection Second alarm (ALM2) hold action selection
<i>SL 6</i>	Direct/reverse action selection Control action type selection Control output type selection (Heating/cooling side)
<i>SL 7</i>	Energize/de-energize alarm selection Special specification [Z-124] selection
<i>SL 8</i>	" <i>SL 8</i> " cannot be set.
<i>Pb</i>	PV bias setting
<i>oH</i>	Differential gap setting of ON/OFF action
<i>RH 1</i>	Differential gap setting of first alarm (ALM1) ※ No display appears when no first alarm (ALM1) function is provided.
<i>RH 2</i>	Differential gap setting of second alarm (ALM2) ※ No display appears when no second alarm (ALM2) function is provided.
<i>SL H</i>	High-limit setting for set-value (SV)
<i>SL L</i>	Low-limit setting for set-value (SV)

## 2. 2 Each parameter setting

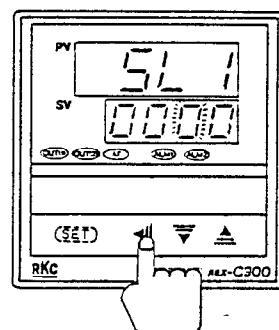
### ① Method of setting

Example of changing the input thermocouple type from K to L in the setting procedure "Input type selection" ( $\text{SL } /$ ).

- ① Press the **(SET)** key to display the input type selection parameter symbol ( $\text{SL } /$ ) on the measured-value (PV) display unit. At this time, the least significant digit on the set-value (SV) display unit lights brightly. The digit which lights brightly is settable.

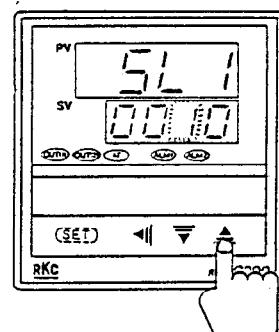


- ② Press the **◀** key to shift the digit which lights brightly up to the tens digit. The digit which lights brightly shifts as follows every time the **◀** key is pressed.

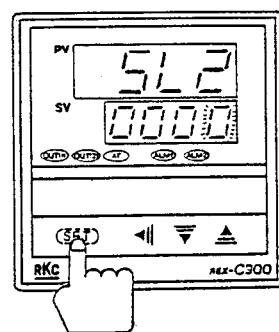


- ③ Press the **▲** key to set "**/**". Pressing the **▲** key increments numerals, and pressing the **▼** key decrements numerals.

**00 10** : Thermocouple type L



- ④ After finishing the setting, press the **(SET)** key to register (shifts to next parameter).



### Cautions

1. If no key operation is performed for more than 60 sec. during setting or when any parameter other than " $\text{SL } /$ " is displayed, the display returns to " $\text{SL } /$ ".
2. An example of the REX-C900 is described here, but the same procedure applies to other controllers (REX-C100, -C400, -C410, and -C700).

(1) Input type selection [ $SL_1$ ]

Set-value (SV) display unit

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VALUE				INPUT TYPE	HARDWARE
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	K	a
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	/	J	
<input type="checkbox"/>	<input type="checkbox"/>	/	<input type="checkbox"/>	L	
<input type="checkbox"/>	<input type="checkbox"/>	/	/	E	
<input type="checkbox"/>	/	<input type="checkbox"/>	<input type="checkbox"/>	N	
<input type="checkbox"/>	/	/	/	R	
/	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	S	
/	<input type="checkbox"/>	<input type="checkbox"/>	/	B	
/	<input type="checkbox"/>	/	<input type="checkbox"/>	W5Re/W26Re	
/	<input type="checkbox"/>	/	/	PL II	b
<input type="checkbox"/>	/	<input type="checkbox"/>	/	T	
<input type="checkbox"/>	/	/	<input type="checkbox"/>	U	
/	/	<input type="checkbox"/>	<input type="checkbox"/>	Pt100Ω(JIS/IEC)	
/	/	<input type="checkbox"/>	/	JPt100Ω(JIS)	c
/	/	/	<input type="checkbox"/>	0 to 5V DC	d
/	/	/	/	1 to 5V DC	
/	/	/	<input type="checkbox"/>	0 to 20mA DC	e
/	/	/	/	4 to 20mA DC	

Cautions

1. Conduct setting so as to meet the instrument specification (input type). Setting change between different symbols may cause malfunction, but the setting can be changed when hardware types have the same symbol. However, when the setting is changed, always reset " $SL_H$ " and " $SL_L$ " (See page 14).
2. " $SL_1$ " setting displays are only "" and "/".

(2) Engineering unit and cooling type selection [*SEL*]

Set-value (SV) display unit

<input type="checkbox"/>	<input checked="" type="checkbox"/>		
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VALUE		DESCRIPTION	
	<input checked="" type="checkbox"/>	°C	Engineering unit selection
	/	°F	
	<input checked="" type="checkbox"/>	Air-cooling (Type A) <sup>*1</sup>	Cooling type selection
	/	Water-cooling (Type W) <sup>*2</sup>	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Fixed	

\*1 Type A : Heating/cooling PID action (Air-cooling)

\*2 Type W : Heating/cooling PID action (Water-cooling)

**Cautions**

1. For the voltage and current input types, the engineering unit setting of °C or °F is ignored.
2. When control action is of the type D (PID action [direct action]) or type F (PID action [reverse action]), “Cooling type selection” setting is ignored.
3. Do not set the upper 2 digits to numeric values other than “00” since they are not used.
4. “SEL” setting displays are only “0” and “/”.

(3) Selection of break alarm (HBA, LBA) etc. [SL3]

Set-value (SV) display unit

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VALUE			DESCRIPTION
	/	/	Without HBA function Heater break alarm (HBA) selection
		/	With HBA function
	/	/	Without LBA function Control loop break alarm (LBA) selection
		/	With LBA function
	/		Fixed
/			Selection of control loop break alarm output terminals
/			Second alarm side

Cautions

1. "With HBA function" setting is ignored for the following instruments.
  - Instrument with deviation or process alarm as the second alarm (ALM2).
  - Instrument with control loop break alarm (LBA).
  - Instrument whose control output is the current output type.
2. "With LBA function" setting is ignored for the following instruments.
  - Instrument with deviation or process alarm as the first alarm (ALM1) and second alarm (ALM2).
  - Instrument with heater break alarm (HBA).
  - Instrument whose control action is the type W (Heating/cooling PID action [Water-cooling]) or type A (Heating/cooling PID action [Air-cooling]).
3. "SL3" setting displays are only " / " and " / " .

(4) First alarm (ALM1) type selection [*SL4*]

Set-value (SV) display unit

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VALUE			DESCRIPTION		
/	/	/	No first alarm		
/	/	/	High alarm	First alarm (ALM1) type selection (See page 10)	
/	/	/	Low alarm		
/	/	/	High/Low alarm		
/	/	/	Band alarm		
/	/	/	High alarm		
/	/	/	Low alarm		
/			Without alarm hold action	First alarm (ALM1) hold action selection	
/			With alarm hold action		

Cautions

1. The following instrument is set to “0000” .
  - Instrument without the first alarm (ALM1).
  - Instrument which outputs control loop break alarm (LBA) from the first alarm side. [*SL3* setting details : For “00 10” ]
2. “*SL4*” setting displays are only “/” and “/” .

(5) Second alarm (ALM2) type selection [SL5]

Set-value (SV) display unit

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VALUE			DESCRIPTION		
/	/	/	No second alarm		
/	/	/	High alarm	Deviation alarm	
/	/	/	Low alarm		
/	/	/	High/Low alarm		
/	/	/	Band alarm		
/	/	/	High alarm		
/	/	/	Low alarm	Process alarm	
/			Without alarm hold action	Second alarm (ALM2) hold action selection	
/			With alarm hold action		

Cautions

1. The following instrument is set to “0000” .
  - Instrument without the second alarm (ALM2).
  - Instrument with the heater break alarm (HBA).
  - Instrument which outputs control loop break alarm (LBA) from the second alarm side. (SL3 setting details : For “10 10” )
2. “SL5” setting displays are only “/” and “/” .

## ALARM TYPES

(▲ : Set-value (SV) △ : Alarm set-value ■ : Alarm status (ALM1 or ALM2 LED lighting) )

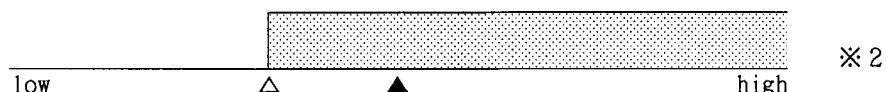
### < DEVIATION ALARM >

High alarm ①



※ 1

High alarm ②



※ 2

Low alarm ①



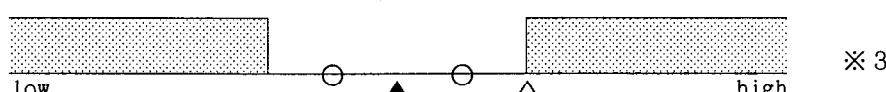
※ 1

Low alarm ②



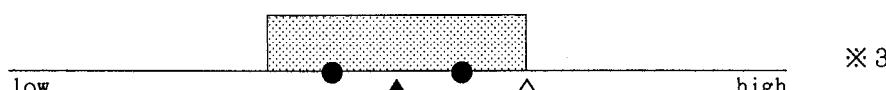
※ 2

High/Low alarm



※ 3

Band alarm



※ 3

### < PROCESS ALARM >

High alarm



Low alarm



※ 1 Alarm status where the alarm set-value is set to plus (+) side for the set-value (SV).

※ 2 Alarm status where the alarm set-value is set to minus (-) side for the set-value (SV).

※ 3 Status when alarm is activated at 2 equal deviation points from the set-value (SV) with the alarm set-value (absolute deviation) is set.

(6) Control output selection etc. [SEL5]

Set-value (SV) display unit

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VALUE		DESCRIPTION	
	/	Direct action (Type D)	Direct/reverse action selection
	/	Reverse action (Type F,A,W)	
	/	PID action (Type D,F) <span style="float: right;">※1</span>	Control action type selection
	/	Heating/cooling PID action (Type A,W) <span style="float: right;">※1</span>	
	/	Time proportional output (M,V,G output) <span style="float: right;">※2</span>	Control output type selection (Heating side)
	/	Continuous output (Current 4 to 20mA DC)	
	/	Time proportional output (M,V output) <span style="float: right;">※2</span>	Control output type selection (Cooling side)
	/	Continuous output (Current 4 to 20mA DC)	

※1 Type D : PID action [Direct action]

Type F : PID action [Reverse action]

Type A : Heating/cooling PID action [Air-cooling]

Type W : Heating/cooling PID action [Water-cooling]

※2 M output : Relay contact              G output : Trigger (For triac driving)  
V output : Voltage pulse

**Cautions**

1. Conduct setting so as to meet the instrument specification. An incorrect setting may cause a malfunction.
2. When control action is of the type D or F, "Control output type selection (Cooling side)" setting is ignored.
3. For the REX-C100, always set the control action type selection to PID action.
4. "SEL5" setting displays are only "□" and "/" .

(7) Energize/de-energize alarm selection etc. [SL7]

Set-value (SV) display unit

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VALUE		DESCRIPTION	
	/	Energize alarm	Energize/de-energize alarm selection (First alarm side)
	/	De-energize alarm	Energize/de-energize alarm selection (Second alarm side)
	/	Without Z-124 specification	Special specification [Z-124] selection (First alarm side)
	/	With Z-124 specification *	Special specification [Z-124] selection (Second alarm side)
	/	Without Z-124 specification	
	/	With Z-124 specification *	

\* Z-124 specification : No alarm action caused by burnout is performed.

Cautions

1. Instrument without the first alarm (ALM1) and second alarm (ALM2) is set to “0000” .
  - Instrument without the first alarm (ALM1).  
[SL4 setting details : For “0000” ]
  - Instrument without the second alarm (ALM2).  
[SL5 setting details : For “0000” ]
2. “SL7” setting displays are only “/” and “/” .

### (8) PV bias setting [PB]

Set-value (SV) display unit  

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#### ⟨Setting range⟩

- ① TC and RTD inputs
  - For a resolution of 1°C [°F] : -1999 to +9999°C [°F]
  - For a resolution of 0.1°C [°F] : -199.9 to +999.9°C [°F]
- ② Voltage and current inputs : -199.9 to +200.0%

### (9) Differential gap setting of ON/OFF action [OH]

Set-value (SV) display unit  

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#### ⟨Setting range⟩

- ① TC and RTD inputs : 0 to 100 or 0.0 to 100.0
- ② Voltage and current inputs : -199.9 to +200.0

### (10) Differential gap setting of first alarm (ALM1) [RH1]

Set-value (SV) display unit  

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#### ⟨Setting range⟩

- ① TC and RTD inputs : 0 to 100 or 0.0 to 100.0
- ② Voltage and current inputs : 0.0 to 10.0

#### Caution

No display appears when no alarm function is provided.  
(SL4 setting : “0000” ).

### (11) Differential gap setting of second alarm (ALM2) [RH2]

Set-value (SV) display unit  

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#### ⟨Setting range⟩

- ① TC and RTD inputs : 0 to 100 or 0.0 to 100.0
- ② Voltage and current inputs : 0.0 to 10.0

#### Caution

No display appears when no alarm function is provided.  
(SL5 setting : “0000” ).

(12) High-limit setting for set-value (SV) [ $SLH$ ]

Set-value (SV) display unit

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	INPUT TYPE	RANGE
TC	K	0 to 1372°C, 0 to 2502°F
	J	0 to 1200°C, 0 to 2192°F
	L	0 to 800°C, 0 to 1600°F
	E	0 to 1000°C, 0 to 1832°F
	N	0 to 1300°C, 0 to 2372°F
	R, S	0 to 1769°C, 0 to 3216°F
	B	0 to 1820°C, 0 to 3308°F
	W5Re/W26Re	0 to 2320°C, 0 to 4000°F
	PL II	0 to 1390°C, 0 to 2534°F
	T	-199.9 to +400.0°C, -199.9 to +752.0°F
RTD	Pt 100Ω (JIS/IEC) JPt 100Ω (JIS)	-199.9 to +649.0°C
	Pt 100Ω (Conforming to JIS/IEC)	-199.9 to +999.9°F
Voltage	0 to 5V DC 1 to 5V DC	0.0 to 100.0% (Fixed)
Current	0 to 20mA DC 4 to 20mA DC	0.0 to 100.0% (Fixed)

\*1 IEC (International Electrotechnical Commission) is equivalent to JIS, DIN and ANSI.

\*2 Limit setting becomes  $SLH \geq SLL$ .

**Caution**

Prior to conducting limiter setting change, see "Input range table" on page 16.

(13) Low-limit setting for set-value (SV) [ $SLL$ ]

Set-value (SV) display unit

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(Setting range)

See the above table.

Limit setting becomes  $SLH \geq SLL$ .

**Caution**

Prior to conducting limiter setting change, see "Input range table" on page 16.

When changing the high-limit ( $SLH$ ) and the low-limit ( $SLL$ ) limiter settings, always set the set-value (SV) within the limiter range.

High-limit setting  $\geq$  set-value (SV)  $\geq$  low-limit setting

## 2. 3 Each parameter checks

- ① When all the settings are finished, press the (SET) key to check each parameter.
- ② When the contents of the initial setting are changed, change the model code plate stuck to the inside of the controller and outside of the case by referring to the following table.
- ③ After each parameter has been checked, return the controller to the control mode by referring to "1.2 Exiting the initial set mode" (P.2).

	MODEL CODE						DESCRIPTION
REX-	C100 C400 C410 <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> - <input type="checkbox"/> <input type="checkbox"/> * <input type="checkbox"/> <input type="checkbox"/> C700 C900						48×48 mm 96×48 mm 48×96 mm 72×72 mm 96×96 mm
Control action	F D W A						PID action (Reverse action) PID action (Direct action) Heating/Cooling PID action (Water-cooling) ★ Heating/Cooling PID action (Air-cooling) ★
Input type	<input type="checkbox"/>						See page 16. INPUT RANGE TABLE "MODEL CODE"
Input range	<input type="checkbox"/>						See page 16. INPUT RANGE TABLE "MODEL CODE"
First control output (OUT(1)) (Heating side)	M V 8 G						Relay contact Voltage pulse Current 4 to 20 mA DC Trigger (for triac driving)
Second control output (OUT(2)) (Cooling side)	NONE M V 8						No Second control output (Control action : D,F) Relay contact ★ Voltage pulse ★ Current 4 to 20 mA DC ★
First alarm (ALM1)		N A B C D E F G H J K L R					No first alarm (ALM1) Deviation high alarm (without hold action) Deviation low alarm (without hold action) Deviation high/low alarm (without hold action) Band alarm Deviation high alarm (with hold action) Deviation low alarm (with hold action) Deviation high/low alarm (with hold action) Process high alarm (without hold action) Process low alarm (without hold action) Process high alarm (with hold action) Process low alarm (with hold action) Control loop break alarm
Second alarm (ALM2)		N A B C D E F G H J K L P S R					No second alarm (ALM2) Deviation high alarm (without hold action) Deviation low alarm (without hold action) Deviation high/low alarm (without hold action) Band alarm Deviation high alarm (with hold action) Deviation low alarm (with hold action) Deviation high/low alarm (with hold action) Process high alarm (without hold action) Process low alarm (without hold action) Process high alarm (with hold action) Process low alarm (with hold action) Heater break alarm (CTL-6) Heater break alarm (CTL-12) Control loop break alarm

\* For the REX-C100, the content marked with ★ cannot be selection.

\* When control output is trigger output for triac driving, only the first alarm is available  
(For the REX-C100).

# INPUT RANGE TABLE

INPUT TYPE		INPUT RANGE					
THERMOCOUPLE	K (JIS/IEC)	K 0 1	0to 200°C	K 0 2	0to 400°C	K 0 3	0to 600°C
		K 0 4	0to 800°C	K 0 5	0to1000°C	K 0 6	0to1200°C
		K 0 7	0to1372°C	K 1 3	0to 100°C	K 1 4	0to 300°C
		KA 1	0to 800°F	KA 2	0to1600°F	KA 3	0to2502°F
	J (JIS/IEC)	J 0 1	0to 200°C	J 0 2	0to 400°C	J 0 3	0to 600°C
		J 0 4	0to 800°C	J 0 5	0to1000°C	J 0 6	0to1200°C
		J A 1	0to 800°F	J A 2	0to1600°F	J A 3	0to2192°F
	R # (JIS/IEC)	R 0 1	0to1600°C	R 0 2	0to1769°C		
		RA 1	0to3200°F	RA 2	0to3216°F		
	S # (JIS/IEC)	S 0 1	0to1600°C	S 0 2	0to1769°C		
		SA 1	0to3200°F	SA 2	0to3216°F		
RTD	B # (JIS/IEC)	B 0 1	400to1800°C	B 0 2	0to1820°C		
		BA 1	800to3200°F	BA 2	0to3308°F		
	E (JIS/IEC)	E 0 1	0to 800°C	E 0 2	0to1000°C		
		EA 1	0to1600°F	EA 2	0to1832°F		
	N (NBS)	N 0 1	0to1200°C	N 0 2	0to1300°C		
		NA 1	0to2300°F	NA 2	0to2372°F		
	T (JIS/IEC)	T 0 1	-199.9to400.0°C	T 0 2	-199.9to100.0°C	T 0 3	-100.0to200.0°C
		T 0 4	0.0to350.0°C				
		TA 1	-199.9to752.0°F	TA 2	-100.0to200.0°F	TA 3	-100.0to400.0°F
		TA 4	0.0to450.0°F	TA 5	0.0to752.0°F		
VOLTAGE CURRENT	W5Re/W26Re (ASTM)	W 0 1	0to2000°C	W 0 2	0to2320°C		
		WA 1	0to4000°F				
	PLII (NBS)	A 0 1	0to1300°C	A 0 2	0to1390°C	A 0 3	0to1200°C
		AA 1	0to2400°F	AA 2	0to2534°F		
	U (DIN)	U 0 1	-199.9to600.0°C	U 0 2	-199.9to100.0°C	U 0 3	0.0to400.0°C
		UA 1	-199.9to999.9°F	UA 2	-100.0to200.0°F	UA 3	0.0to999.9°F
	L (DIN)	L 0 1	0to 400°C	L 0 2	0to 800°C		
		LA 1	0to 800°F	LA 2	0to1600°F		
	Pt100 (JIS/IEC)	D 0 1	-199.9to649.0°C	D 0 2	-199.9to200.0°C	D 0 3	-100.0to 50.0°C
		D 0 4	-100.0to100.0°C	D 0 5	-100.0to200.0°C	D 0 6	0.0to 50.0°C
VOLTAGE CURRENT	Pt100 (Conforming to JIS/IEC)	D 0 7	0.0to100.0°C	D 0 8	0.0to200.0°C	D 0 9	0.0to300.0°C
		DA 1	-199.9to999.9°F	DA 2	-199.9to400.0°F	DA 3	-199.9to200.0°F
		DA 4	-100.0to100.0°F	DA 5	-100.0to300.0°F	DA 6	0.0to100.0°F
		DA 7	0.0to200.0°F	DA 8	0.0to400.0°F	DA 9	0.0to500.0°F
	JPt100 (JIS)	P 0 1	-199.9to649.0°C	P 0 2	-199.9to200.0°C	P 0 3	-100.0to 50.0°C
		P 0 4	-100.0to100.0°C	P 0 5	-100.0to200.0°C	P 0 6	0.0to 50.0°C
		P 0 7	0.0to100.0°C	P 0 8	0.0to200.0°C	P 0 9	0.0to300.0°C
		P 1 0	0.0to500.0°C				

# Accuracy in the range of 0 to 399°C (0 to 799°F): Not guaranteed.

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