REX - C100 REX - C900 **REX - C400**

REX - C410

INITIAL SETTING MANUAL

REX - C700











This is a manual for the initial setting of the 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, is 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.

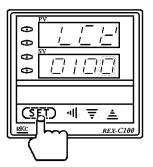
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1. Initial set mode changing

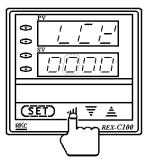
1.1 Entering the initial set mode

Press the **SET** key to display the set data locking parameter symbol ('__ '__ '__') 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.



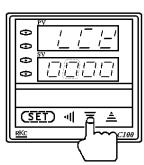
Press the | key to shift the digit which lights brightly up to the hundreds digit. The digit which lights brightly shifts as follows every time the | key is pressed.



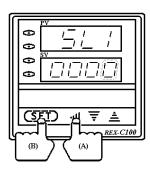


(3) Press the $\overline{=}$ key to set " $\overline{-}$!". Pressing the $\underline{\triangleq}$ key increments numerals, and pressing the $\overline{=}$ key decrements numerals.

I_!!_!!_!! : No initial set mode locked



(4) Hold both the \P (A) and (SET) (B) keys simultaneously until $\frac{1}{2}$ | appears.



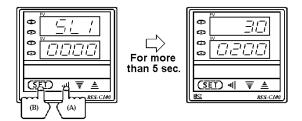
Initial set status

- 1. In order to enter the initial set mode, always set the data locking $(\frac{1}{2}, \frac{1}{2}, \frac{1}{2})$ to " $\frac{1}{2}H\frac{1}{2}H\frac{1}{2}H^{2}$ ". Any setting other than " $\frac{1}{2}H\frac{1}{2}H\frac{1}{2}H^{2}$ " 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).

1.2 Exiting the initial set mode

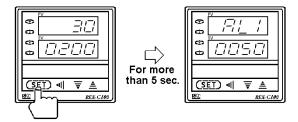
(1) Exits from the initial set mode

Keep pressing both the \P key (A) and \P (B) keys simultaneously for more than 5 seconds can enter the PV/SV display mode.

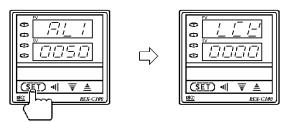


* Even if the controller exits from the initial set mode at any point, the setting mode so far set becomes valid.

- (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 "!_! [-!" on the measured-value (PV) display unit.



3. Press the \P key and \triangleq keys to set "[! !![!]". Press the (SET) key to register "[! !![!]".



Caution

If the controller exits from the initial set mode, confirm that set data lock setting is set to "[] !![!]".

- < 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

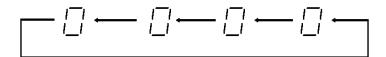
2.1 Description of each parameter

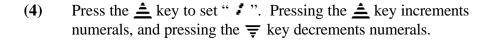
"[-1]" appears on the display, and every press of the (SET) key advances the parameter symbol as shown in the following table. After one cycle, the display shows "[-1]".

	MEASURED-VALUE (PV) DISPLAY UNIT	SETTING DESCRIPTION
	5L 1	Input type selection
	SLE	Engineering unit selection (°C, °F)
	SL B	Heater break alarm (HBA) selection Control loop break alarm (LBA) selection Special specification [Z-132] selection Selection of control loop break alarm output terminals
	54_ 'H	First alarm (ALM1) type selection First alarm (ALM1) hold action selection
	SLS	Second alarm (ALM2) type selection Second alarm (ALM2) hold action selection
	SL (5)	Direct / reverse action selection Control action type selection Control output type selection (Heating / cooling side)
T)	5L 7	Energize / de-energize alarm selection Special specification [Z-124] selection
<u>-</u>	SLB	"='=' !=' " cannot be set.
	/=*/ <u>=</u> ,	PV bias setting
	·=· !!	Differential gap setting of ON / OFF action
	1 = 11-1	Differential gap setting of first alarm (ALM1) ** No display appears when no first alarm (ALM1) function is provided.
	!=!!−! <u>:</u> ='	Differential gap setting of second alarm (ALM2) ** No display appears when no second alarm (ALM2) function is provided.
	SLH	High-limit setting for set-value (SV)
	544	Low-limit setting for set-value (SV)

2.2 Each parameter setting

- Method of setting
- Press the **SET** key to display the input type selection parameter symbol (**'E'.'**) 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.
- (3) 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.





'[!] : Thermocouple type L

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

- 1. If no key operation is performed for more than 60 sec. during setting or when any parameter other than
 - " ΞI_{\perp} " is displayed, the display returns to " ΞI_{\perp} ".
- 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 $(\frac{1}{2},\frac{1}{2},\frac{1}{2})$

Set-value (SV) display unit

VALUE					INPUT TYPE	HARDWARE
1_1	1_1	1_1	1_1		K	
1_1	1_1	1_1	**		J	
1_1	1_1	- /	/_/		L	
1_1	1_1	- /	1		Е	
1_1	- 7	1_1	171		N	a
1_1	- 7	- /	- /	TC	R	
- /	1_1	1_1	1.7		S	
- /	1_1	1_1	- /		В	
- /	1_1	- /	1_1		W5Re / W26Re	
- /	1_1	- /	- /		PLII	
1_1	1	1_1	- /		Т	
1_1	- 7	- 1	[]		U	b
- /	- /	1_1	1_1		Pt100 Ω (JIS / IEC)	
- /	- /	1_1	- /	RTD	J Pt100 Ω (JIS)	c
- /	- /	- /	1_1		0 to 5 V DC	
- /	- 7	- 7	- 1	Voltage	1 to 5 V DC	d
- /	- 7	- /	1_1		0 to 20 mA DC	
- 1	- /	- /	- /	Current	4 to 20 mA DC	e

- 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 "-!-!" and "-!-!". (See page 14).
- 2. "=!!_ !" setting displays are only "!=!"and " !".

(2) Engineering unit and cooling type selection $(\frac{1}{2},\frac{1}{2},\frac{1}{2})$

Set-val	ue (S'	V) disp	olay unit
1.1	Ü.)		

VALUE				DESCRIPTION		
	<u> </u>		1_1	°C	Engineering unit	
			- /	°F	selection	
	[]	1_1		Air-cooling (Type A) # 1	Cooling type	
		- 7		Water-cooling (Type W)	selection	
1_1	1_1			Fixed		

- * 1 Type A: Heating / cooling PID action (Air-cooling)
- # 2 Type W: Heating / cooling PID action (Water-cooling)

- 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 "[11]!" since they are not used.
- 4. "[-] "setting displays are only "[-] "and " ..."

(3) Selection of break alarm (HBA, LBA) etc. $(\frac{1}{2},\frac{1}{2},\frac{1}{2})$

Set-val	lue (S'	V) disp	olay	<u>un</u> i

VALUE				DESCRIPTION		
			1_1	Without HBA function	Heater break alarm (HBA)	
			1	With HBA function	selection	
		1_1		Without LBA function	Control loop break alarm	
	 	- /	 	With LBA function	(LBA) selection	
	[]			Without Z-132 specification	Special specification	
	1		 	With Z-132 specification **	[Z-132] selection	
1_1				First alarm side	Selection of control loop	
\overline{I}	 		 	Second alarm side	break alarm output terminals	

* Z-132 specification: Heater break alarm output is delayed.

- 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 type W (Heating / cooling PID action [Water-cooling]) or type A (Heating / cooling PID action [Air-cooling]).
- 3. For the instrument without heater break alarm (HBA), "With Z-132 specification" setting is ignored.
- 4. "= l = l" setting displays are only "= l" and "= l".

First-alarm (ALM1) type selection ($[\overline{\underline{}}_{i}, [\underline{}_{i} - [\underline{}_{i}]$ **(4)**

Set-value (SV) display unit

~ • •	 ٠.٠	~ ' /	Torus P	
				_

VALUE					DESCRIPTIO	N
	1_1	1_1	1_1	No first alarm		
		1_1	1	High alarm		
	- 1	1_1	- 7	Low alarm	Deviation	First alarm (ALM1)
	1_1	- 7	1_1	High / Low alarm	alarm	type selection
	- 1	- 7	1_1	Band alarm		(See page 10)
	17	- 7	- 1	High alarm	Process	
	- 1	- 7	- 7	Low alarm	alarm	
1_1				Without alarm hold action		First alarm (ALM1)
1				With alarm hold action		hold action selection

- 1.
- The following instrument is set to "I_II_II_II_I".
 Instrument without the first alarm (ALM1).
 Instrument which outputs control loop break alarm (LBA) from the first alarm side. [I_II_ II_I II_I"]
- "="!" setting displays are only "!" and " !". 2.

(5) Second-alarm (ALM2) type selection ('\(\frac{1}{2} \langle \frac{1}{2} \rangle \)

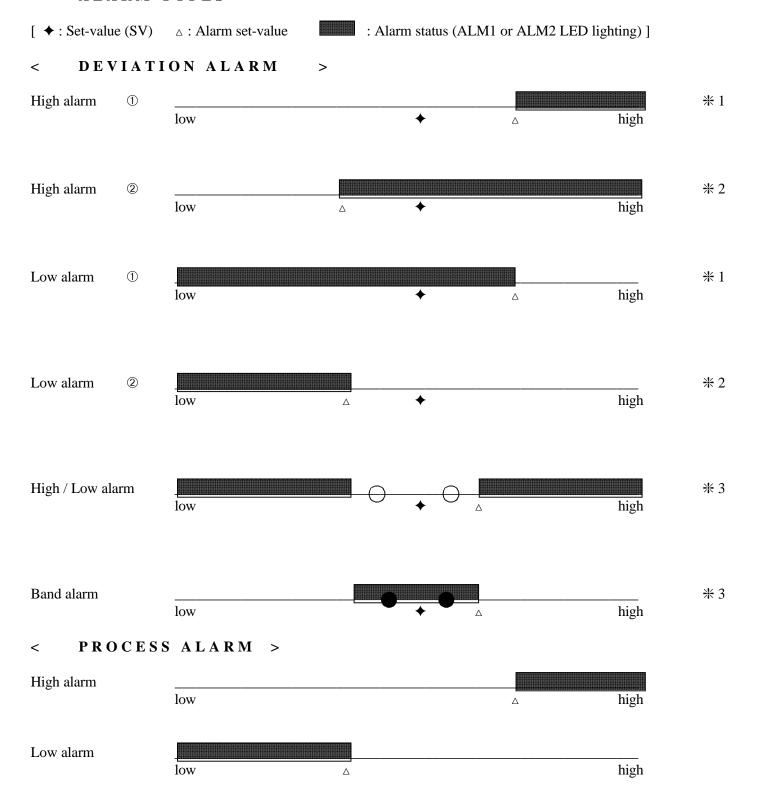
Set-val	lue (S'	V) disp	olay 1	<u>un</u> it

VALUE					DESCRIPTIO	N
	1_1	1_1	1_1	No second alarm		
	17	1_1	1	High alarm		
	- /	1_1	- 7	Low alarm	Deviation	Second alarm (ALM2)
	1_1	- 1	1_1	High / Low alarm	alarm	type selection
	- /	- 7	1_1	Band alarm		(See page 10)
	1_1	- 1	- 7	High alarm	Process	
	- /	- 7	- 7	Low alarm	alarm	
1_1				Without alarm hold action	Second alarm (ALM2)	
- /				With alarm hold action		hold action selection

- Instrument without the second alarm (ALM2).
- Instrument with the heater break alarm (HBA).

- **1.** The following instrument is set to "!\[!!\[!!\[!!\] !\] ".
 - 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. ['=,!_=;' setting details: For "!=!!=! !!=!"]
- 2. "'\(\frac{1}{2}\)!_'\(\frac{1}{2}\)" setting displays are only "!\(\frac{1}{2}\)! "and "\(\frac{1}{2}\)".

ALARM TYPES



- * 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.

Control-output selection etc. $(\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{1}{2})$ **(6)**

Set-value (SV) display unit

VALUE				DESCRIPTION		
	Direct action (Type D)		Direct / reverse action			
	 		1	Reverse action (Type F, A, W)	selection	
		1_1		PID action (Type D, F)	Control action	
	 	- 7	 	Heating / cooling PID action (Type A, W) * 1	type selection	
	1_1			Time proportional output (M, V, G output) # 2	Control output type	
	1		 	Continuous output (Current 4 to 20 mA DC)	selection (Heating side)	
1_1				Time proportional output (M, V output) * 2	Control output type	
1	 			Continuous output (Current 4 to 20 mA DC)	selection (Cooling side)	

***** 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

- 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. "\(\frac{1}{2}, \frac{1}{2}, \text{" setting displays are only "\(\frac{1}{2}, \text{" and " \(\frac{1}{2}, \text{"}. \) 4.

Energize / de-energize alarm selection etc. ($\frac{1}{2}$, $\frac{1}{2}$) **(7)**

Set-val	ue (S'	V) disp	olay	unit

	VA	LUE		DESCRIPTION	
			1_1_1	Energize alarm	Energize / de-energize alarm selection
			1	De-energize alarm	(First alarm side)
		17		Energize alarm	Energize / de-energize alarm selection
		1		De-energize alarm	(Second alarm side)
	1_1			Without Z-124 specification	Special specification [Z-124] selection
	- 1			With Z-124 specification **	(First alarm side)
1_1			 	Without Z-124 specification	Special specification [Z-124] selection
\overline{I}	 		 	With Z-124 specification **	(Second alarm side)

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

- 1.
 - Instrument without the first alarm (ALM1).
 - ['\frac{1}{2}.\frac{1}{2}\] setting details: For "\frac{1}{2}\ll \frac{1}{2}\ll \frac{1}{2}\rl \
- "[-]_ " setting displays are only "[-] "and " ". 2.

(8)	PV bias setting (/='/=')		
	Set-value (SV) display unit		
	(Setting range)		
	 (1) TC and RTD inputs For a resolution of 1°C [°F] For a resolution of 0.1°C [°F] (2) Voltage and current inputs 	: : :	-1999 to 9999°C [°F] -199.9 to +999.9°C [°F] -199.9 to +200.0%
(9)	Differential gap setting of ON / OFF action [1]	_r/-/]	
	Set-value (SV) display unit		
	(Setting range)		
	(1) TC and RTD inputs(2) Voltage and current inputs	:	0 to 100 or 0.0 to 100.0 0.0 to 10.0
(10)	Differential gap setting of first alarm (ALM1)	[:-::-:	'1
	Set-value (SV) display unit		
	(Setting range)		
	(1) TC and RTD inputs(2) Voltage and current inputs	:	0 to 100 or 0.0 to 100.0 0.0 to 10.0
	Caution		
	No display appears when no alarm function is property ['\(\frac{1}{2} \) \(\frac{1}{2} \) setting : "\(\frac{1}{2} \) \(\frac{1}{2} \)	rovided.	
(11)	Differential gap setting of second alarm (ALM	12) [¦=¦¦-	6 2 1
	Set-value (SV) display unit		
	(Setting range)		
	(1) TC and RTD inputs(2) Voltage and current inputs	:	0 to 100 or 0.0 to 100.0 0.0 to 10.0
	<u>Caution</u> - No display appears when no ala	arm funct	tion is provided.
	['\(\frac{1}{2} \) \(\frac{1}{2} \) \(\setting : "\(\frac{1}{2} \) \(\frac{1}{		

High-limit setting for set-value (SV) $\begin{bmatrix} \frac{1}{2}, \frac{1}{2}, \frac{1}{2} \end{bmatrix}$ (12)

S	et-val	lue (S	V) disp	olay	uni
Ī					

	INPUT TYPE	RANGE			
	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		
TC	R, S	0 to 1769°C	0 to 3216°F		
	В	0 to 1820°C	0 to 3308°F		
	W5Re / W26Re	0 to 2320°C	0 to 4000°F		
	PLII	0 to 1390°C	0 to 2534°F		
	T	-199.9 to +400.0°C	-199.9 to +752.0°F		
	U	-199.9 to +600.0°C	-199.9 to +999.9°F		
RTD	Pt100 Ω (JIS / IEC) J Pt100 Ω (JIS)	-199.9 to +649.0°C			
	$\begin{array}{c} Pt100\Omega \\ (Conforming \ to \ JIS \ / \ IEC) \end{array}$	-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 0 to 20mA DC	0.0 to 100.0% (Fixed)			

IEC (International Electrotechnical Commission) is equivalent to JIS, DIN and ANSI. Limit setting becomes $\begin{bmatrix} -1 \\ -1 \end{bmatrix} = \begin{bmatrix} -1 \\ -1 \end{bmatrix} = \begin{bmatrix} -1 \\ -1 \end{bmatrix}$. ***** 1

<u>Caution</u>: Prior to conducting limiter setting change, see "Input range table" on page 16.

Low-limit setting for set-value (SV) [$\frac{1}{2},\frac{1}{2},\frac{1}{2}$] (13)

Set-val	lue (S'	V) disp	lay ur	11

(Setting range)

See the above table.

Limit setting becomes $\begin{bmatrix} 1 & 1 \\ 1 & 1 \end{bmatrix} \begin{bmatrix} 1 & 1 \\ 1 & 1 \end{bmatrix} \begin{bmatrix} 1 & 1 \\ 1 & 1 \end{bmatrix}$.

<u>Caution</u>: Prior to conducting limiter setting change, see "Input range table" on page 16.

When changing the high-limit [$-\frac{1}{2}$, $\frac{1}{2}$, $\frac{1}{2}$] and the low-limit [$-\frac{1}{2}$, $\frac{1}{2}$] limiter settings, always set the set-value (SV) within the limiter range. High-limit setting \geq set-value (SV) \geq low-limit setting

^{*} 2

2.3 Each Parameter checks

- (1) When all the settings are finished, press the **SET** key to check each parameter.
- When the contents of the initial setting are changed, change the model code plate stuck to inside of the controller and outside of the case by referring to the following table.
- 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 C700 C900	G	G	G	G	G	G	G	48 x 48 mm 96 x 48 mm 48 x 96 mm 72 x 72 mm 96 x 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 ty	pe		G						See page 16. Input Range Table "MODEL CODE"		
Input ra	ange			G		[[See page 16. Input Range Table "MODEL CODE"		
First co (Heatin	ntrol outpu g side)	ıt [OUT(1)]		M V 8 G	 	 	 	Relay contact Voltage pulse Current 4 to 20mA DC Trigger (for triac driving)		
	None No second control output (Control action : D, F) Second control output [OUT(2)] M Relay contact (Cooling side) V Voltage pulse Current 4 to 20mA 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 (AL	M2)						N A B C D E F G H J K L P S	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 low alarm (with hold action) Process low alarm (with hold action) Heater break alarm (CTL-6) Heater break alarm (CTL-12)		

[#] 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

I	NPUT TYPE	INPUT RANGE	MODEL	CODE	I	NPUT TYPE	INPUT RANGE	MODEI	L CODE	
	K (JIS / IEC)	IEC) 0 to 1372°C	К	01 02 03 03 04 05 06 07 1 A1	T H E R	PLII (NBS)	0 to 1300°C 0 to 1390°C 0 to 2400°F 0 to 2534°F *	A	01 02 A1 A2 ZZ	
	J	0 to 800°F 0 to 1600°F 0 to 2502°F ** 0 to 200°C 0 to 400°C 0 to 600°C 0 to 800°C 0 to 1000°C	J	A2 M A3 ZZ 00 01 C 02 03 04	M O C O U	U (DIN)	-199.9 to +600°C -199.9 to +100.0°C 0.0 to 400.0°C -199.9 to +999.9°F -100.0 to +200.0°F 0.0 to 999.9°F 米	U	01	
H E	(JIS / IEC)	0 to 1200°C 0 to 800°F 0 to 1600°F 0 to 2192°F 米		06 A1 A2 A3 ZZ	P L E	L (DIN)	0 to 400°C 0 to 800°C 0 to 800°F 0 to 1600°F 米	L	01 02 A1 A2 ZZ	
R M O	R (JIS / IEC)	0 to 1600°C 0 to 1769°C 0 to 3200°F 0 to 3216°F #	R	01 02 A1 A2 ZZ		Pt100	-199.9 to +649.0°C -199.9 to +200.0°C -100.0 to +50.0°C -100.0 to +100.0°C -100.0 to +200.0°C 0.0 to 50.0°C 0.0 to 100.0°C 0.0 to 200.0°C 0.0 to 300.0°C -199.9 to +999.9°F	 	01 02 03 04 05	
C O U	S (JIS / IEC)	0 to 1600°C 0 to 1769°C 0 to 3200°F 0 to 3216°F 米	S	01 02 A1 A2 ZZ 01 02 A1 R A2 ZZ T		(JIS / IEC)		D	06 07 08 09 10 A1	
P L E	B (JIS / IEC)	400 to 1800°C 0 to 1820°C 800 to 3200°F 0 to 3308°F *	В		(Conforming to	-199.9 to +400.0°F -199.9 to +200.0°F -100.0 to +100.0°F -100.0 to +300.0°F 0.0 to 100.0°F	D	A2 A3 A4 A5 A6		
	E (JIS / IEC)	0 to 800°C 0 to 1000°C 0 to 1600°F 0 to 1832°F *	E	01 02 A1 A2 ZZ	D		0.0 to 200.0°F 0.0 to 400.0°F 0.0 to 500.0°F **		A7 A8 A9 ZZ	
	N (NBS)	0 to 1200°C 0 to 1300°C 0 to 2300°F 0 to 2372°F 米	N	01 02 A1 A2 ZZ			J Pt100 (JIS)	-199.9 to +200.0°C -100.0 to +50.0°C -100.0 to +100.0°C -100.0 to +200.0°C 0.0 to 50.0°C 0.0 to 100.0°C 0.0 to 200.0°C	Р	02 03 04 05 06 07 08
	T (JIS / IEC)			02 03		5V	0.0 to 300.0°C 0.0 to 500.0°F *		09 10 ZZ	
			A1 A2 A3 A4 A5	VC OU LR TR AE GN ET	0 to 5V 1 to 5V 0 to 20mA 4 to 20mA Special input	0.0 to 100.0% 0.0 to 100.0% 0.0 to 100.0% 0.0 to 100.0% 0.0 to 100.0%	4 6 7 8 9	01 01 01 01 01		
	W5Re / W26Re (ASTM)	0 to 2000°C 0 to 2320°C 0 to 4000°F *	W	01 02 A1 ZZ	r. I		the range is specified separa		100.0%	

"MODEL CODE" becomes "GZZ"