

Continued from the previous page.

Change Settings

Example: When the temperature is measured by two instruments

When the measured values (PV) are as shown in the following:

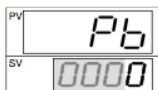
Main unit = 198 °C
Recorder = 200 °C

If a PV bias correction value of +2 °C is added to the measured value the main unit, the displayed value become:

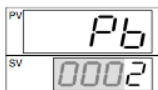
Displayed value = Measured value (PV) + PV bias
= 198 °C + 2 °C = 200 °C

The setting procedures is described in the following.

1. Press the SET key at "Pb" is displayed.



2. Press the UP key to change the number to 2.



3. Press the SET key to store the new set value. The display goes to the next parameter.

7.8 ON/OFF Action Differential Gap (oH)

Setting range: TC/RTD inputs: 0 to 100 °C [°F] or 0.0 to 100.0 °C [°F]

Voltage/Current inputs: -199.9 to +200.0 %

Factory set value: TC/RTD inputs: 2 °C [°F] or 2.0 °C [°F]
Voltage/Current inputs: 0.2 % of input span

Change Settings

Example: Change the On/Off Action differential gap from "2 °C" to "4 °C"

1. Press the SET key at "oH" is displayed.
2. Press the UP key to change the number to 4.
3. Press the SET key to store the new set value. The display goes to the next parameter.

7.9 Alarm 1 Differential Gap (AH1) Alarm 2 Differential Gap (AH2)

Setting range: TC/RTD inputs: 0 to 100 °C [°F] or 0.0 to 100.0 °C [°F]

Voltage/Current inputs: 0.0 to 10.0 %

Factory set value: TC/RTD inputs: 2 °C [°F] or 2.0 °C [°F]
Voltage/Current inputs: 0.2 % of input span

Change Settings

Example: Change the Alarm 1 differential gap from "2 °C" to "4 °C"

1. Press the SET key at "AH1" is displayed.
2. Press the UP key to change the number to 4.
3. Press the SET key to store the new set value. The display goes to the next parameter.

7.10 Setting Limiter High (SLH) Setting Limiter Low (SLL)

For voltage or current input, set scaling within the input range.

Refer to 9. INPUT RANGE TABLE.

Factory set value varies depending on the instrument specification.

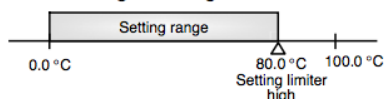
Input type	Setting range *	
TC	K	0 to 1372 °C / 0 to 2502 °F
	J	0 to 1200 °C / 0 to 2192 °F
	R	0 to 1769 °C / 0 to 3216 °F
	S	0 to 1769 °C / 0 to 3216 °F
	B	0 to 1820 °C / 0 to 3308 °F
	E	0 to 1000 °C / 0 to 1832 °F
	N	0 to 1300 °C / 0 to 2372 °F
	T	-199.9 to +400.0 °C / -199.9 to +752.0 °F
	W5Re/W26Re	0 to 2320 °C / 0 to 4208 °F
	PLII	0 to 1390 °C / 0 to 2534 °F
RTD	U	-199.9 to +600.0 °C / -199.9 to +999.9 °F
	L	0 to 800 °C / 0 to 1600 °F
	Pt100	-199.9 to +649.0 °C / -199.9 to 999.9 °F
	JPt100	-199.9 to +649.0 °C

* Limit setting becomes SLH ≥ SLL.

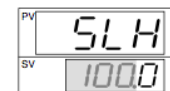
When changing the high-limit (SLH) and the low-limit (SLL) limiter settings, always set the set-value (SV) within the limiter range.

Change Settings

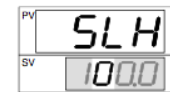
Example: The input range (input scale range) is from 0.0 to 100.0 °C, the setting limiter high is 80.0 °C.



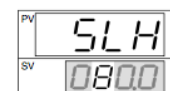
1. Press the SET key at "SLH" is displayed.



2. Press the shift key to high-light the tens digit.



3. Press the DOWN key to change the number to 8.



4. Press the SET key to store the new set value. The display goes to the next parameter.

8. ERROR DISPLAYS

Error display

Err	RAM failure (Incorrect set data write, etc.)	Turn off the power at once. If an error occurs after the power is turned on again, please contact RKC sales office or the agent.
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Over-scale and Underscale

Measured value (PV) [Flashing]	PV is outside of input range.	WARNING To prevent electric shock, always turn off the power before replacing the sensor. Check Input type, Input range and connecting state of sensor. Confirm that the sensor or wire is not broken.
0000 [Flashing]	Over-scale: PV is above the high input display range limit.	
UUUU [Flashing]	Underscale: PV is below the low input display range limit.	

9. INPUT RANGE TABLE

TC/RTD inputs

Input type	Range	Code	Range	Code	Range	Code
TC	K	0 to 200 °C	K 01	0 to 400 °C	K 02	0 to 600 °C
		0 to 800 °C	K 04	0 to 1000 °C	K 05	0 to 1200 °C
		0 to 1372 °C	K 07	0 to 100 °C	K 13	0 to 300 °C
		0 to 450 °C	K 17	0 to 500 °C	K 20	0 to 800 °F
		0 to 1600 °F	K A2	0 to 2502 °F	K A3	20 to 70 °F
		0 to 200 °C	J 01	0 to 400 °C	J 02	0 to 600 °C
	J	0 to 800 °C	J 04	0 to 1000 °C	J 05	0 to 1200 °C
		0 to 450 °C	J 10	0 to 800 °F	J A1	0 to 1600 °F
		0 to 2192 °F	J A3	0 to 400 °F	J A6	0 to 300 °F
	R ¹	0 to 1600 °C	R 01	0 to 1769 °C	R 02	0 to 1350 °C
		0 to 3200 °F	R A1	0 to 3216 °F	R A2	—
	S ¹	0 to 1600 °C	S 01	0 to 1769 °C	S 02	0 to 3200 °F
		0 to 3216 °F	S A2	—	—	—
	B ²	400 to 1800 °C	B 01	0 to 1820 °C	B 02	800 to 3200 °F
0 to 3308 °F		B A2	—	—	—	
E	0 to 800 °C	E 01	0 to 1000 °C	E 02	0 to 1600 °F	
	0 to 1832 °F	E A2	—	—	—	
N	0 to 1200 °C	N 01	0 to 1300 °C	N 02	0 to 2300 °F	
	0 to 2372 °F	N A2	—	—	—	
T	-199.9 to +400.0 °C	T 01	-199.9 to +100.0 °C	T 02	-100.0 to +200.0 °C	
	0.0 to 350.0 °C	T 04	-199.9 to +752.0 °F	T A1	-100.0 to +200.0 °F	
	-100.0 to +400.0 °F	T A3	0.0 to 450.0 °F	T A4	0.0 to 752.0 °F	
W5Re/W26Re	0 to 2000 °C	W 01	0 to 2320 °C	W 02	0 to 4000 °F	
	0 to 1300 °C	A 01	0 to 1390 °C	A 02	0 to 1200 °C	
PLII	0 to 2400 °F	A A1	0 to 2534 °F	A A2	—	
	-199.9 to +600.0 °C	U 01	-199.9 to +100.0 °C	U 02	0.0 to 400.0 °C	
U	-199.9 to +999.9 °F	U A1	-100.0 to +200.0 °F	U A2	0.0 to 999.9 °F	
	0 to 400 °C	L 01	0 to 800 °C	L 02	0 to 800 °F	
L	0 to 1600 °F	L A2	—	—	—	
	RTD	-199.9 to +649.0 °C	D 01	-199.9 to +200.0 °C	D 02	-100.0 to +50.0 °C
-100.0 to +100.0 °C		D 04	-100.0 to +200.0 °C	D 05	0.0 to 50.0 °C	
0.0 to 100.0 °C		D 07	0.0 to 200.0 °C	D 08	0.0 to 300.0 °C	
0.0 to 500.0 °C		D 10	-199.9 to +999.9 °F	D A1	-199.9 to +400.0 °F	
-199.9 to +200.0 °F		D A3	-100.0 to +100.0 °F	D A4	-100.0 to +300.0 °F	
0.0 to 100.0 °F		D A6	0.0 to 200.0 °F	D A7	0.0 to 400.0 °F	
0.0 to 500.0 °F		D A9	—	—	—	
-199.9 to +649.0 °C		P 01	-199.9 to +200.0 °C	P 02	-100.0 to +50.0 °C	
-100.0 to +100.0 °C		P 04	-100.0 to +200.0 °C	P 05	0.0 to 50.0 °C	
0.0 to 100.0 °C		P 07	0.0 to 200.0 °C	P 08	0.0 to 300.0 °C	
0.0 to 500.0 °C	P 10	—	—	—		

¹ 0 to 399 °C [0 to 799 °F]; ±6 °C [12 °F]

² 0 to 399 °C [0 to 799 °F]; Accuracy is not guaranteed.

Voltage/Current inputs

Type	Range	Code	Type	Range	Code
0 to 5 V DC	0.0 to 100.0 (Fixed)	4 01	0 to 20 mA DC	0.0 to 100.0 (Fixed)	7 01
1 to 5 V DC	0.0 to 100.0 (Fixed)	6 01	4 to 20 mA DC	0.0 to 100.0 (Fixed)	8 01

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