

ORDERING INFORMATION

MODEL : R3-US4

PLEASE FILL IN THIS SECTION



Model
Company
Name
P/O No.

FACTORY USE ONLY



Job No.	Approved by (Sales office)
Ser No.	Issued by (Sales office)
Sales	Approved by (Factory)
	Set by (Factory)
Ser No.	

Specify the items you want to change. Default setting will be used if not specified.

DEFAULT VALUE shows values in case of nothing specified.

Field calibration is required when a potentiometer input type is selected.

A PC configurator software (model: R3CON) and a PC configurator cable (model: MCN-CON or COP-US) are required for field calibration.

■ MODULE SETTING

R3-US4 (Standard accuracy)

ITEM	SET VALUE	DEFAULT VALUE	Factory Internal check
Temperature Unit *1	<input type="checkbox"/> °C <input type="checkbox"/> °F <input type="checkbox"/> K	°C	<input type="checkbox"/>
ADC Speed	<input type="checkbox"/> Middle <input type="checkbox"/> Low	Middle	<input type="checkbox"/>
Limit *2	<input type="checkbox"/> OFF <input type="checkbox"/> ON	OFF	<input type="checkbox"/>

R3-US4/A (High accuracy)

ITEM	SET VALUE	DEFAULT VALUE	Factory Internal check
Temperature Unit *2	<input type="checkbox"/> °C <input type="checkbox"/> °F	°C	<input type="checkbox"/>
Limit *2	<input type="checkbox"/> OFF <input type="checkbox"/> ON	OFF	<input type="checkbox"/>

*1: Specify this item when a thermocouple or RTD is selected.

Note that the temperature unit cannot be specified for individual channels.

*2: When different values are specified for the 0% and 100% input values, input values are limited to that range.

■ CHANNEL SETTING

CHANNEL (Card No.)	ITEM	SET VALUE	DEFAULT VALUE	Factory Internal check	
INPUT 1	Input Type *3		±12 V DC	<input type="checkbox"/>	
	Burnout *4	<input type="checkbox"/> None <input type="checkbox"/> Upscale <input type="checkbox"/> Downscale	None		
	CJC SW *5	<input type="checkbox"/> OFF <input type="checkbox"/> ON	ON		input & scaling
	0 % Input Value *6		-		
	100 % Input Value *6		-		
	0 % Scaling Value *7		-		
	100 % Scaling Value *7		-		
INPUT 2	Input Type *3		±12 V DC	<input type="checkbox"/>	
	Burnout *4	<input type="checkbox"/> None <input type="checkbox"/> Upscale <input type="checkbox"/> Downscale	None		
	CJC SW *5	<input type="checkbox"/> OFF <input type="checkbox"/> ON	ON		input & scaling
	0 % Input Value *6		-		
	100 % Input Value *6		-		
	0 % Scaling Value *7		-		
	100 % Scaling Value *7		-		
INPUT 3	Input Type *3		±12 V DC	<input type="checkbox"/>	
	Burnout *4	<input type="checkbox"/> None <input type="checkbox"/> Upscale <input type="checkbox"/> Downscale	None		
	CJC SW *5	<input type="checkbox"/> OFF <input type="checkbox"/> ON	ON		input & scaling
	0 % Input Value *6		-		
	100 % Input Value *6		-		
	0 % Scaling Value *7		-		
	100 % Scaling Value *7		-		
INPUT 4	Input Type *3		±12 V DC	<input type="checkbox"/>	
	Burnout *4	<input type="checkbox"/> None <input type="checkbox"/> Upscale <input type="checkbox"/> Downscale	None		
	CJC SW *5	<input type="checkbox"/> OFF <input type="checkbox"/> ON	ON		input & scaling
	0 % Input Value *6		-		
	100 % Input Value *6		-		
	0 % Scaling Value *7		-		
	100 % Scaling Value *7		-		

*3: Select an input type by referring to Table 1 on page 3.

*4: This item is mandatory when an RTD or thermocouple input type is selected (not mandatory when a DC voltage or potentiometer input type is selected).

*5: Specify this item when a thermocouple input type is selected.

*6: When selecting a DC voltage or potentiometer input type, specify the 0% and 100% input values by referring to "Available range in Input Values" for the input type selected in Table 1. Make sure that the 100% input value is larger than the 0% input value.

When selecting a thermocouple or RTD input type, if the data range to be used is any of the following, enter "-" for both of the 0% and 100% input values.

Standard accuracy:

°C, absolute temperature: Engineering unit value × 10 (integer)

°F: Engineering unit value (integer, figures after the decimal point are rounded down)

High accuracy:

°C: Engineering unit value × 100 (integer)

°F: Engineering unit value × 10 (integer)

To scale input data (e.g. scaling a 0 - 200°C value to a 0 - 10000 value), specify the 0% and 100% input values by referring to "Available range in Input Values" for the input type selected in Table 1. Make sure that the 100% input value is larger than the 0% input value.

*7: Specify the data range. Selectable range: -32000 to +32000

(The default range for DC voltage and potentiometer input types is 0 to 10000. If the default range meets your requirements, enter "0" for the 0% scaling value and "10000" for the 100% scaling value.)

If you selected a thermocouple or RTD input type selected and the 0% and 100% input values entered are "-", enter "-" for the 0% and 100% scaling values as well.

■ Table 1 Input Type & Available Range

R3-US4 (Standard accuracy)

	Input Type	Available range in Input Values		
DC Voltage input	±60 mV	-60 to +60 mV		
	±125 mV	-125 to +125 mV		
	±250 mV	-250 to +250 mV		
	±500 mV	-500 to +500 mV		
	±1000 mV	-1000 to +1000 mV		
	±3 V	-3 to +3 V		
	±6 V	-6 to +6 V		
	±12 V	-12 to +12 V		
Thermocouple input	(PR)	-50 to +1860°C	-58 to +3380°F	223 to 2133K
	K (CA)	-273 to +1470°C	-459.4 to +2678°F	0 to 1743K
	E (CRC)	-273 to +1020°C	-459.4 to +1868°F	0 to 1293K
	J (IC)	-260 to +1300°C	-436 to +2372°F	13 to 1573K
	T (CC)	-273 to +500°C	-459.4 to +932°F	0 to 773K
	B (RH)	40 to 1920°C	104 to 3488°F	313 to 2193K
	R	-100 to +1860°C	-148 to +3380°F	173 to 2133K
	S	-100 to +1860°C	-148 to +3380°F	173 to 2133K
	C (WRe 5-26)	-50 to +2415°C	-58 to +4379°F	223 to 2688K
	N	-273 to +1400°C	-459.4 to +2552°F	0 to 1673K
	U	-250 to +650°C	-418 to +1202°F	23 to 923K
	L	-250 to +1000°C	-418 to +1832°F	23 to 1273K
	P (Platinel II)	-52 to 1495°C	-61.6 to +2723°F	221 to 1768K
RTD input	Pt 100 (JIS'89)	-240 to +900°C	-400 to +1652°F	33 to 1173K
	Pt 100 (JIS'97, IEC)	-240 to +900°C	-400 to +1652°F	33 to 1173K
	Pt 1000	-240 to +900°C	-400 to +1652°F	33 to 1173K
	Pt 50Ω (JIS'81)	-236 to +700°C	-392.8 to +1292°F	37 to 973K
	JPt 100 (JIS'89)	-236 to +560°C	-392.8 to +1040°F	37 to 833K
	Ni 100	-130 to +320°C	-202 to +608°F	143 to 593K
	Ni 120	-130 to +360°C	-202 to +680°F	143 to 633K
	Ni 508.4Ω	-100 to +330°C	-148 to +626°F	173 to 603K
	Ni 1000	-56 to +152°C	-68.8 to +305.6°F	217 to 425K
	Cu 50	-100 to +200°C	-148 to +392°F	173 to 473K
Potentiometer input	0 to 200 Ω	0 to 200 Ω		
	0 to 500 Ω	0 to 500 Ω		
	0 to 5 kΩ	0 to 5 kΩ		

R3-US4/A (High accuracy)

	Input Type	Available range in Input Values		
Thermocouple input	K (CA)	-50 to +150°C	-58 to +302°F	
	E (CRC)	-50 to +150°C	-58 to +302°F	
	J (IC)	-50 to +150°C	-58 to +302°F	
	T (CC)	-50 to +150°C	-58 to +302°F	
RTD input	Pt 100 (JIS'89)	-50 to +150°C	-58 to +302°F	
	Pt 100 (JIS'97, IEC)	-50 to +150°C	-58 to +302°F	
	Pt 50Ω (JIS'81)	-50 to +150°C	-58 to +302°F	
	JPt 100 (JIS'89)	-50 to +150°C	-58 to +302°F	