

PCB₁

User Focused Functionality







Max. 10-patterns, 10-steps each, programmable

Power supply and quick setup using

the Tool Cable and USB cable





Easier viewing large display

Drip-proof / Dust-proof IP66 (for front panel only)

Model

(e.g.) PCB1 R 0 0 - 1 0

Control output: Relay contact
Power supply: 100 to 240 V AC
Input: Multi-range

Option 1: Event output EV2 or Heating/Cooling control output OUT2

Option 2: Option 2 not needed

PCB1	Control		Input	Option 1	Option 2	Specification		
	Output	Supply	(*1)	(*2)	(*2)			
PCB1								
	R					Relay contact: 1a		
	S					Non-contact voltage (for SSR drive): 12 V DC±15%		
	Α					Direct current: 4 to 20 mA DC		
		0				100 to 240 V AC (Standard)		
		1				V AC/DC		
			0 —			Multi-range (*1)		
				0		Option 1 not needed		
				1		Event output EV2 or Heating/Cooling control output	EV(2(DD) (*2)	
				ı		OUT2 Relay contact output	EV2(DR) (*3)	
				2		Heating/Cooling control output OUT2	DS	
				2		Non-contact voltage output		
				2		Heating/Cooling control output OUT2	DA	
				3		Direct current output	DA	
				4		Insulated power output	P24	
						Event output EV3, and	EV3(DR) (*3), (*4)	
				5		[Event output EV2 or Heating/Cooling control output		
						OUT2 Relay contact output]		
				6		Event output EV3, and Heating/Cooling control output	EV/3DS (*4)	
				0		OUT2 Non-contact voltage output	EV3DS (*4)	
				7		Event output EV3, and Heating/Cooling control output	E) (2DA (*4)	
				/		OUT2 Direct current output	EV3DA (*4)	
		0 Option 2 not needed Serial communication + Heater burnout ala		Option 2 not needed				
					4	Serial communication + Heater burnout alarm output +	C5W(20A)	
					1	Event input (*6)	(*5)	
					0	Serial communication + Heater burnout alarm output +	C5W(100A)	
					2	Event input (*6)	(*5)	
					3	Event input + Heater burnout alarm output	EIW(20A) (*5)	
					4	Event input + Heater burnout alarm output	EIW(100A) (*5)	
			5	Event input + Transmission output (4 to 20 mA DC) EIT (*4)				
				6	Serial communication RS-485 + Event input (*6) C5			
				7	Heater burnout alarm output W(20A)			
					8	Heater burnout alarm output	W(100A) (*5)	
					_		1	

Event input + Event output EV3

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■ Accessories Sold Separately

Model						
Terminal cover (TC-BCD2)						
CT for 20A (CTL-6-S-H) (*)						
CT for 100A (CTL-12-S36-10L1U) (*)						
Tool cable (CMD-001)						
USB cable (CUS-100)						

(*) Used for Heater burnout alarm (C5W, EIW, W options)

To our valued customers who are currently using our PCD-33A with external operation function: If you want to replace with the PCB1, please order the model PCB1 — 0-19.

ΕI

^(*1) Thermocouple, RTD, Direct current or DC voltage can be selected by keypad.

 $^{(\}ensuremath{^\star}\xspace2)$ Only one option can be selected from Option 1 and Option 2 respectively.

 $^{(*3) \ \}text{If `Heating/Cooling control Relay contact output' is selected in [Event output EV2 allocation], this works as the DR option.}$

^(*4) The EV3D option and EIT option cannot be used together.

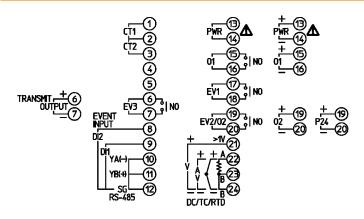
^(*5) If control output OUT1 is relay contact output or non-contact voltage output, the C5W, EIW or W option can be used.

^{(*6) &#}x27;SV digital transmission' or 'SV digital reception' can be selected in [Communication protocol].

Specifications

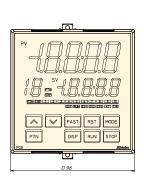
	The	ermocouple: K, J, R, S, B	B, E, T, N, PL-II, C (W/R	e5-26) External resistanc	e: 100 Ω max.(However,	B: 40 Ω max.)			
	Thermocouple: K, J, R, S, B, E, T, N, PL-II, C (W/Re5-26) External resistance: 100 Ω max.(However, B: 40 Ω max.) RTD: Pt100, JPt100, 3-wire type, Allowable input lead wire resistance: 10 Ω max. per wire								
		Direct current: 0 to 20 mA, 4 to 20 mA DC							
	J	Input impedance: 50 Ω, Allowable input current: 50 mA max.							
	DC voltage: 0 to 1 V DC								
Input	Input impedance: 1 MΩ min. Allowable input voltage: 5 V DC max.								
	Allowable signal source resistance: 2 kΩ max.								
	0 to 5 V DC, 1 to 5 V DC, 0 to 10 V DC								
	Input impedance: 100 k Ω min. Allowable input voltage: 15 V DC max.								
	Allowable signal source resistance: 100 Ω max.								
	The	ermocouple: Within ±0.2	$^{-2}$ % of each input span \pm	1 digit					
		However, R, S input, 0 to 200°C (32 to 392°F): Within ± 6 °C (12°F)							
	B input, 0 to 300°C (32 to 572°F): Accuracy is not guaranteed.								
Base accuracy	K, J, E, T, N input, Less than 0° C (32°F): Within $\pm 0.4\%$ of input span ± 1 digit								
	RTI	RTD: Within ±0.1% of each input span±1 digit							
	Direct current: Within ±0.2% of each input span±1 digit								
	DC voltage: Within ±0.2% of each input span±1 digit								
Input sampling period	125 ms								
	Relay contact 1a: Control capacity: 3 A 250 V AC (resistive load), 1 A 250 V AC (inductive load cos φ =0.4)								
	١	Electrical life: 100,000 cycles, Minimum applicable load: 10 mA 5 V DC							
Control output OUT1	Nor	Non-contact voltage (for SSR drive): 12 V DC±15%							
· ·	l	Max. 40 mA (short circuit protected)							
	Dire	Direct current: 4 to 20 mA DC (Resolution: 12000)							
	Load resistance: Max. 550 Ω Relay contact 1a: Control capacity: 3 A 250 V AC (resistive load), 1 A 250 V AC (inductive load $\cos \phi = 0.4$)								
Event output EV3 (Ontional)	Rel	= -		esistive load), 1 A 250 V	AC (inductive load $\cos \phi$:	=0.4)			
Event output EV2 (Optional) Event output EV3 (Optional)	Electrical life: 100,000 cycles								
	Nlin	Minimum applicable load: 10 mA 5 V DC							
		Number of patterns: 10 (Linkable)							
		Number of steps: 100 (10 steps/pattern) Number of repetitions: 0 to 10000 times (Repetitions disabled when set to 0.)							
		Number of repetitions: 0 to 10000 times (Repetitions disabled when set to 0.) Program time range: 0 to 99 hours 59 minutes/step, or 0 to 99 minutes 59 seconds/step							
Program performance	(When is set: Fixed value control is performed using step SV.)								
	Wa	Wait value: (when - - is set: Fixed value control is performed using step 5v.)							
			oltage, current input: 0						
					tion.)				
		(The placement of the decimal point follows the selection.) (The Wait function is disabled when set to 0 or 0.0.)							
		(The	Wait function is disable	d when set to 0 or 0.0.)	,				
	Cor		Wait function is disable A RS-485	d when set to 0 or 0.0.)	,				
			A RS-485		,				
	Cor	mmunication line: El.	A RS-485 alf-duplex communicatio	n	<u>'</u>				
	Cor Syr	mmunication line: El. mmunication method: Ha nchronization method: St	A RS-485 alf-duplex communicatio art-stop synchronization	n	actory default: 9600 bps)				
	Cor Syr Cor	mmunication line: El. mmunication method: Hanchronization method: St mmunication speed: 96	A RS-485 alf-duplex communicatio art-stop synchronization	n Selectable by keypad) (F					
	Cor Syr Cor Dat Par	mmunication line: El. mmunication method: Ha nchronization method: St mmunication speed: 96 ta bit: 7 t ity: Ev	A RS-485 Alf-duplex communication art-stop synchronization 600, 19200, 38400 bps (for 8 (Factory default: 7 bren, Odd, No parity (Sele	n Selectable by keypad) (F oits) ectable by keypad) (Facto	actory default: 9600 bps) ory default: Even)				
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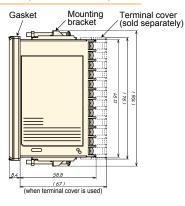
Terminal Arrangement

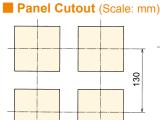


Power supply voltage 100 to 240 V AC or 24 V AC/DC (For 24 V DC, ensure polarity is correct.)
Control output OUT1
Event output EV1
Event output EV2 [EV2, EV3(DR) options]
Control output OUT2 (EV2, DS, DA, EV3D□ options)
Insulated power output 24 V DC (P24 option)
Thermocouple input
RTD input
Direct current, DC voltage inputs
CT input 1 (C5W, EIW, W options)
CT input 2 (C5W, EIW, W options)
Serial communication RS-485 (C5W, C5 options)
Event input DI1 (C5W, EIW, EIT, C5, EI options)
Event input DI2 (C5W, EIW, EIT, C5, EI options)
Event output EV3 (EV3D□, EI options)
Transmission output (EIT option)

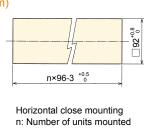
External Dimensions (Scale: mm)







92+0.8





Caution

If horizontal close mounting is used for the controller, Drip-proof/Dust-proof IP66 may be compromised, and all warranties will be invalidated.



To ensure safe and correct use, thoroughly read and understand the 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 protection 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 the 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.

- · This catalog is as of Aug 2017 and its contents are subject to change without notice
- Photos used in this catalog do not show unit in operating status.
 If you have any inquiries, please consult us or our agency.