

**Digital Indicating Controllers** 

BCx2 series

# A New Standard



Contains frequently used setting items (in Initial setting mode) **Program control, converter function are standard features** 



5-digit displays suit many industries Drip-proof / Dust-proof IP66 (front panel only)

## Quicker Setting Time – Frequently Used Items in One Mode

Contains frequently used setting items in Initial Setting mode.

Control can be started by setting those items in this mode.

Set other functions according to your requirements.



# **Simplified Program Control**

9-step pattern (for SV and time) is a standard feature.

Number of patterns	1
Number of steps	9
Number of repetitions	0 to 10000 times
Program time range	00:00 to 99:59
	(Hours:Minutes, Minutes:Seconds)



(e.g.) Temperature program control

# **Simplified Converter Function**

Input signals can be converted to insulated 4 to 20 mA DC output (for direct current output type).



# Simple Settings from a PC

By connecting to a PC, various settings can be carried out. [Tool cable (sold separately) and Software (charge-free) are required.]

- The setting contents of the 1st unit can be copied to other units with a single click (when using controllers with the same specifications).
- Logging and monitoring are possible!
  Logging data can be saved as a CSV file.



Power to the BCx2 is supplied by PC via USB.





Tool cable (CMD-001) (Cable length 200 mm) (CMD-001 is a Shinko cable, available from our suppliers.)



USB cable (CUS-100) (microUSB Type B – USB Type A Full length 2 m) (Commercially available USB cable can be used.)



OS: Windows 7/8 (Japanese/English) http://shinko-technos.co.jp/e/ → Support & Downloads → Downloads → Software → BCx2 series console software (SWC-BCx01M)



### **Dedicated Software**

# Model

Size	Control Output	Power Supply	Input (*1)	Option 1 (*2)	Option 2 (*2)	Specification		
BCS2						48×48 mm (W×H) (Control panel interior depth 60 mm)		
BCR2					48×96 mm (W×H) (Control panel interior depth 60 mm)		60 mm)	
BCD2					96×96 mm (W×H) (Control panel interior depth 60 mm)			
R					Relay contact			
S					Non-contact voltage (for SSR drive)			
	А					Direct current		
		0				100 to 240 V AC		
		1				24 V AC/DC		
			0 —			Multi-range (*1)		
				0		No option needed		
				1		Event output EV2 (*3)	EV2	
				2		Heating/Cooling control output OUT2, Non-contact voltage	DS	
				3		Heating/Cooling control output OUT2, Direct current	DA	
				4		Insulated power output	P24	
				5		Event output EV2 + Heating/Cooling control output OUT2 Relay contact (*4)	EV2+DR	
				6		Event output EV2 + Heating/Cooling control output OUT2 Non-contact voltage (*4)	EV2+DS	
				7		Event output EV2 + Heating/Cooling control output OUT2 Direct current (*4)	EV2+DA	
					0	No option needed		
					1	Event input (2 points) + Serial communication + Heater burnout alarm (20A) (*5)(*6)	C5W (20A)	
					2	Event input (2 points) + Serial communication + Heater burnout alarm (100A) (*5)(*6)	C5W (100A)	
					3	Event input (2 points) + Heater burnout alarm (20A) (*6)	EIW (20A)	
(e.g.) BCS2 R 0	0-13				4	Event input (2 points) + Heater burnout alarm (100A) (*6)	EIW (100A)	
	Size	: 48 x 48 mm	(W x H)		5	Event input (2 points) + External setting input+Transmission output (*7)	EIT	
4	Pow	troi output: Re er supply: 10	elay conta 0 to 240 V	CT AC	6	Serial communication	C5	
Option 1: Event output EV2 Option 2: Event input (2 points) + Heater burnout alarm (20A)				7	Heater burnout alarm (20A) (*6)	W (20A)		
			nts) +	8	Heater burnout alarm (100A) (*6)	W (100A)		
			arm (20A)	9	Event input (2 points)	EI		

(\*1) Thermocouple, RTD, Direct current and DC voltage can be selected by keypad.
 (\*2) Only one option can be selected from Option 1 and Option 2 respectively.
 (\*3) Event output EV1 is standard. The following outputs can be selected in [Event output EV1/EV2 allocation] by keypad: Alarm output (12 alarm types and No alarm action), Heater burnout alarm output, Loop break alarm output, Time signal output, Output during AT, Pattern end output, Output by communication command, Heating/Cooling control output OUT2 (for EV2 option only) For Event output EV1/EV2, Heater burnout alarm output and Output by communication command are available when C5W, EIW, C5 or W option is ordered.
 (\*4) This option can be added to the BCR2, BCD2 only. If EV2+D□ and EIT options are ordered simultaneously, Transmission output is not available since EV2 output tuitiges transmission output terminals.
 (\*5) For the BCS2, 2 points of Event input are not available.
 (\*6) For the direct current output type, C5W, EIW, W options cannot be ordered. The CT is sold separately.
 (\*7) For the BCS2, 1 point of Event input is available.

### Accessories Sold Separately

	Model	
Terminal cover	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)

# Specifications

Input	$ \begin{array}{llllllllllllllllllllllllllllllllllll$
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	Thermocouple: Within ± 0.2	2% of each input spar	n ± 1 digit			
Basic accuracy	However, R, S inputs, 0 to 200°C (32 to 392°F): Within $\pm$ 6°C (12°F)					
[At ambient	B input, 0 to 300°C (0 to 572°F): Accuracy is not guaranteed.					
temperature 23°C	K, J, E, T, N	l inputs, Less than 0°0	C (32°F): Within ± 0.4% of i	nput span ± 1 digit		
(for a single unit	RTD: Within $\pm 0.1\%$ of each input span $\pm 1$ digit					
mounting)]	Direct current: Within $\pm 0.2\%$ of each input span $\pm 1$ digit					
	DC voltage: Within ± 0.2	2% of each input spar	n ± 1 digit			
Input sampling period	125 ms					
	Relay contact 1a: Contro	l capacity: 3 A 250 V	AC (resistive load), 1 A 250	VAC (inductive load $\cos\phi=0.4$ )		
	Electrical life: 100,000 cycles					
Control output	Minimum applicable load: 10 mA 5 V DC					
	Non-contact voltage (for SS	SR drive): 12 V DC ±	15%, Max 40 mA (short cir	cuit protected)		
	Direct current: 4 to 20	Direct current: 4 to 20 mA DC (Resolution: 12000), Load resistance: Max 550 Ω				
	Relay contact 1a: Contro	I capacity: 3 A 250 V	AC (resistive load), 1 A 250	VAC (inductive load $\cos\phi=0.4$ )		
Event output EV1	Electric	cal life: 100,000 cycle	S			
	Minimu	im applicable load: 10	) mA 5 V DC			
	Number of patterns: 1					
	Number of steps: 9					
	Number of repetitions: 0 to	10000				
Program control	Program time range: 00:00 to 99:59 (Hours:Minutes or Minutes:Seconds)					
	Setting range: Sca	ling low limit value to	Scaling high limit value (Fa	ictory default: 0°C)		
	Time setting accuracy: Within ± 1.0% of setting time					
	Wait value : 0 to	Converted value of 2	0% of input span			
	(Dir	ect current, voltage in	puts: 0 to Converted value	of 20% of scaling span)		
	If 'Set value memory' is selected in [Event input DI1/DI2 allocation], SV1 to SV4 are available.					
Event input			JII/DIZ allocation], SV1 to	SV4 are available.		
(Optional)	Circuit current when Closed	d: Approx.16 mA	JIT/DIZ allocation], SVI to	SV4 are available.		
Coptional)	Circuit current when Closed Resolution: 12000	d: Approx.16 mA		SV4 are available.		
Coptional) Transmission output (Optional)	Circuit current when Closed Resolution: 12000 Output: 4 to 20 m	Approx.16 mA	ce: Max 550 Ω)	SV4 are available.		
Coptional) Transmission output (Optional)	Circuit current when Closed Resolution: 12000 Output: 4 to 20 m Output accuracy: Within ±	Approx.16 mA ADC (Load resistant 0.3% of Transmission	ce: Max 550 Ω) ι output span	SV4 are available.		
Coptional) Transmission output (Optional)	Circuit current when Closed Resolution: 12000 Output: 4 to 20 m Output accuracy: Within ± Communication line: E Communication method: H	Approx.16 mA ADC (Load resistant 0.3% of Transmission IA RS-485	ce: Max 550 Ω) i output span	SV4 are available.		
Coptional) Transmission output (Optional)	Circuit current when Closed Resolution: 12000 Output: 4 to 20 m Output accuracy: Within ± Communication line: E Communication method: H Synchronization method: S	Approx.16 mA ADC (Load resistant 0.3% of Transmission IA RS-485 Ialf-duplex communic tart-stop synchroniza	ce: Max 550 Ω) r output span			
Coptional) Transmission output (Optional)	Circuit current when Closed Resolution: 12000 Output: 4 to 20 n Output accuracy: Within ± Communication line: E Communication method: H Synchronization method: S Communication speed: 9	Approx.16 mA ADC (Load resistant 0.3% of Transmission IA RS-485 Ialf-duplex communic tart-stop synchroniza 600 19200 38400 br	ce: Max 550 Ω) i output span ation tion bs (Selectable by keypad) (	Factory default: 9600 bps)		
Event input (Optional) Transmission output (Optional)	If Set Value memory is set      Circuit current when Closed      Resolution:    12000      Output:    4 to 20 m      Output accuracy:    Within ±      Communication line:    E      Communication method:    H      Synchronization method:    S      Communication speed:    9      Data bit:    7	Approx.16 mA ADC (Load resistant 0.3% of Transmission IA RS-485 Ialf-duplex communic tart-stop synchroniza 600, 19200, 38400 bp or 8 (Eactory default	ce: Max 550 Ω) o output span ation tion os (Selectable by keypad) ( 7 hits)	Factory default: 9600 bps)		
Event input (Optional) Transmission output (Optional)	If Set Value memory is set      Circuit current when Closed      Resolution:    12000      Output:    4 to 20 m      Output:    5 communication line:      E    Communication method:      Synchronization method:    S      Communication speed:    9      Data bit:    7      Parity:    F	Approx.16 mA ADC (Load resistant 0.3% of Transmission IA RS-485 lalf-duplex communic tart-stop synchroniza 600, 19200, 38400 bp or 8 (Factory default: yen Odd No parity (	ce: Max 550 Ω) a output span ation tion os (Selectable by keypad) ( 7 bits) Selectable by keypad) (Fac	Factory default: 9600 bps)		
Event input (Optional) Transmission output (Optional)	If Set Value memory is set      Circuit current when Closed      Resolution:    12000      Output:    4 to 20 m      Output accuracy:    Within ±      Communication line:    E      Communication method:    H      Synchronization method:    S      Communication speed:    9      Data bit:    7      Parity:    E      Stop bit:    1	Approx.16 mA ADC (Load resistant 0.3% of Transmission IA RS-485 lalf-duplex communic tart-stop synchroniza 600, 19200, 38400 bp or 8 (Factory default: ven, Odd, No parity ( or 2 (Selectable by k	ce: Max 550 Ω) noutput span ation tion os (Selectable by keypad) ( 7 bits) Selectable by keypad) (Fac evpad) (Factory default: 1)	Factory default: 9600 bps)		
Event input (Optional) Transmission output (Optional) Serial communication	If Set Value memory is serificity is serificity is serificity in the closed      Circuit current when Closed      Resolution:    12000      Output:    4 to 20 m      Output accuracy:    Within ±      Communication line:    E      Communication method:    H      Synchronization method:    S      Communication speed:    9      Data bit:    7      Parity:    E      Stop bit:    1      Data format:    1	Approx.16 mA ADC (Load resistant 0.3% of Transmission IA RS-485 lalf-duplex communic tart-stop synchroniza 600, 19200, 38400 bp or 8 (Factory default: ven, Odd, No parity ( or 2 (Selectable by k	ce: Max 550 Ω) n output span ation tion os (Selectable by keypad) ( 7 bits) Selectable by keypad) (Fac eypad) (Factory default: 1)	Factory default: 9600 bps)		
Event input (Optional) Transmission output (Optional) Serial communication (Optional)	In Set Value memory is set      Circuit current when Closed      Resolution:    12000      Output:    4 to 20 m      Output accuracy:    Within ±      Communication line:    E      Communication method:    H      Synchronization method:    S      Communication speed:    9      Data bit:    7      Parity:    E      Stop bit:    1      Data format:    1	Approx.16 mA ADC (Load resistant 0.3% of Transmission IA RS-485 lalf-duplex communic tart-stop synchroniza 600, 19200, 38400 bp or 8 (Factory default: ven, Odd, No parity ( or 2 (Selectable by k	ce: Max 550 Ω) noutput span ation tion os (Selectable by keypad) ( 7 bits) Selectable by keypad) (Fac eypad) (Factory default: 1)	Factory default: 9600 bps) story default: Even)		
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Event input (Optional) Transmission output (Optional) Serial communication (Optional) Standards Environmental	In Set Value memory is serificircuit current when Closed      Circuit current when Closed      Resolution:    12000      Output:    4 to 20 n      Output:    4 to 20 n      Output accuracy:    Within ±      Communication line:    E      Communication method:    H      Synchronization method:    S      Communication speed:    9      Data bit:    7      Parity:    E      Stop bit:    1      Data format:    1      Data bit    Parity      Stop bit    E      Response delay time:    0 to response      Resp    EN: EN61010-1 (Pollution or      RoHS directive compliant    1	A DC (Load resistand 0.3% of Transmission IA RS-485 lalf-duplex communic tart-stop synchroniza 600, 19200, 38400 bp or 8 (Factory default: ven, Odd, No parity ( or 2 (Selectable by k Shinko Protocol 1 7 Yes (Even) 1 1000 ms (Factory define onse from the controlle degree 2, Overvoltage	ce: Max 550 Ω) a output span ation tion os (Selectable by keypad) (Fac eypad) (Factory default: 1) Modbus ASCII 1 7 or 8 Yes (Even, Odd), No parity 1 or 2 ault: 10 ms) r can be delayed after receivi a category II)	Factory default: 9600 bps) ctory default: Even) Modbus RTU 1 8 Yes (Even, Odd), No parity 1 or 2 ng command from the host computer		

# **Terminal Arrangement**



# **Dimensions (Scale: mm)**

# Panel Cutout (Scale: mm)



₩( □48







45<sup>+0.5</sup>



Lateral close mounting n: Number of units mounted

BCR2

BCS2

75





n: Number of units mounted

BCD2





(\*): When terminal cover is used

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SAFETY

PRECAUTIONS





Lateral close mounting n: Number of units mounted

### Caution

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

This instrument is intended to be used for industrial machinery, machine tools and measuring equipment. Verify

- (Never use this instrument for medical purpose of use 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.

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 Power Semiconductors **Electrical Measurement Process Control** 

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 aquipment, 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.



