# Temperature Controller Configuration Software BC-SET User Manual

**BrainChild** 

UMBCSET01A May 2019

# Warning Symbol

This document contains notices that you should observe to ensure your own personal safety, as well as to protect the product and connected equipment. These notices are highlighted in the manual by a warning triangle and are marked as follows.

The danger symbol indicates that death or severe personal injury may result if proper precautions are not taken. Do not proceed beyond a warning symbol until the indicated conditions are fully understood and met.

# Preface

Original equipment manufacturer reserves the right to change information available in this document without notice. The manufacturer is not liable for any damages incurred to equipment/personal during installation or use of equipment as explained in this document. User must acquire sufficient knowledge & skills prior to using equipment in the application and follow all the local standards & regulations to meet safety requirements.

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# 1 BC-SET Software

#### 1.1 Introduction

BC-SET Software is used to configure different types of temperature controllers. The software will connect with controllers via the programming port or serial communication port. It read and write the parameters from the controllers. The software can read and write parameters from more than one controller.

#### 1.2 System Requirements

The PC must have at least the below configuration to install BC SET software.

ltem	Minimum Requirements
System	IBM PC compatible computer with Intel Pentium IV or above
Operating System	Windows XP or above
Memory	256MB
Hard Disk	50 GB Free Space on the hard disk
Communication Ports	RS232 or RS485 or USB Port

#### **1.3 Software Installation**

BC-SET software can be installed by following the below procedure.

- 1. Download BC SET software from the manufacturer's website.
- 2. Install latest Dot Net software from Microsoft website
- 3. Install the software by double-clicking the setupwizard.exe from BC-Set Setup folder.

tup					
re View					
X Cut ‱ Copy path ₽ Paste shortcut	Move Copy to * Copy	New i Easy a folder	tem • Inccess • Properties	I Open → Edit History	Select all Select none
d	Organize	New	Op	en	Select
3C Set Setup					
Name	^ [	Date modified	Туре	Size	
Files	C	3-05-2019 02:05	File folder		
Product	1	4-01-2019 11:34	Configuration sett	1	KB
😼 Setup	2	27-02-2009 09:24	Application	1,032	KB
🔊 Setup	3	80-01-2019 10:15	Configuration sett	2	KB
Update Note	: 1	5-06-2011 10:55	Text Document	2	KB

4. Follow the on-screen instruction to complete the installation.

5. Now BC-SET Software can be started by using the selecting the BC-Set application shortcut in BC-SET folder on the desktop.

📙   🛃 📙 🖛   BC	-Set				
File Home	Share View				
Pin to Quick Copy access	Cut Paste Paste Paste shortcut	Move Copy to * Coy	New item ▼ New folder	Properties	Select all Select none Invert selection
CI	in here and	Organiza	New	Onen	Select
CI CI	ippoard	Organize	i i cii	open	Derect
$\leftarrow \rightarrow \land \uparrow$	BC-Set	Organize		open	Jun
← → ✓ ↑ ✓ Quick access	BC-Set	^ Di	ate modified Type	Size	

#### 1.4 Supported Devices

The below controllers can be connected with BC-SET Software by using program port cable or serial port (RS232 or RS485) cable to PC.

Controller	Port	Required Accessories			
C22, C62, C72, C82, C83, C42, R22, C72P, C82P, C83P, C42P Note: P denotes Profile Version	Programming Port or RS485 Port	Programming Port:PA98-1+CC98-1 RS485: RS485 Interface Cable			
B62	Programming Port or RS485 Port	Programming Port:PA98-1+CC98-1 RS485: RS485 Interface Cable			
BTC-2500, BTC-4300, BTC-8300, BTC-9300	Programming Port or RS232 or RS485	Programming Port:CC91-3 +SNA10A Serial Port: RS232 or RS485 Interface Cable			
BTC-4100, BTC-7100, BTC- 8100, BTC-9100, C21, P41, P91	Programming Port or RS232 or RS485	Programming Port:CC91-1 +SNA10A Serial Port: RS232 or RS485 Interface Cable			
C91, L91	Programming Port or RS485	Programming Port: CC91-2 +SNA10A RS485: RS485 Interface Cable			

#### 1.5 Power Requirement

The controller needs to be powered before connected with BC-Set Software.

#### **1.6** Network connection

The BC-Set software uses RS232 or RS485 or Programming port to connect with the controllers. For Programming port connection the programming port adaptor SNA10A or PA98-1 is required. If the PC is not equipped with RS232 or RS485 port then USB to RS232/RS485 converters can be used.

#### 1.7 Setup and Use

Once the software is started, it will prompt the user to configure the starting and end node address needs to be connected. After the configuration of the starting and end node address, the software will try to connect with the controller with the default communication setup. If the communication is successful the software will display the parameters list of the connected controllers else the software will show an error message.

🏓 BC-	-Set V1.9															_	
File Sy	ystem	Help															
<b>B</b>		C   1	2														
Addr2[C	62]																
ADDB	NAME		ADDB	NAME	VALUE	ADDB	NAME	VALUE		NAME	VALUE	ADDB	NAME			NAME	VALUE
0	SP1	-17.71	27	BB	0.635	54	RESVD	0	81		26.16	108	REHI	-16.6	135	OFTH	0
1	SP2	-16.6	28	OUT2	2	55	RESVD	0	82	СЛНІ	0	109	ADDR	2	136	CALO	0
2	SP3	-17.75	29	02TY	0	56	RESVD	0	83	V1L	-199.9	110	BAUD	2	137	CAHI	1
3	RESVD	0	30	02FT	0	57	RESVD	0	84	V1G	-199.9	111	DATA	1	138	RESVD	0
4	RESVD	0	31	CYC2	18	58	RESVD	0	85	MA1L	-199.9	112	PARI	0	139	RESVD	0
5	RESVD	0	32	CPB	100	59	RESVD	0	86	MA1G	-4.8	113	STOP	0	140	PROG	62.12
6	RESVD	0	33	DB	0	60	RESVD	0	87	RESVD	0	114	CT1R	0	141	E1FN	6
7	DTMR	0	34	A1FN	2	61	BPL1	0	88	RESVD	0	115	CT2R	0	142	E2FN	6
8	INPT	16	35	A1MD	0	62	BPL2	0	89	RESVD	0	116	HBEN	0	143	RESVD	0
9	UNIT	0	36	A1HY	0.001	63	CUCL	4862	90	RESVD	0	117	HBHY	0.1	144	RESVD	0
10	DP	3	37	A1FT	0	64	PV64	-1	101	100 J	0	118	HB1T	0	145	RESVD	0
11	INLO	-17.778	38	A1SP	-17.764	65	SV65	-1			100	119	HB2T	0	146	RESVD	0
12	INHI	-17.667	39	A1DV	0.001	66	MV166	10			0	120	HSEN	0	147	A1DL	0
13	SP1L	-17.762	40	A20T	0	67	MV267	0 Read s	uccessfu	lly !	100	121	HSHY	0.1	148	A2DL	0
14	SP1H	-17.706	41	A2FN	2	68	TIMER	0		-	0	122	HS1T	50	149	A3DL	0
15	FILT	2	42	A2MD	0	69	EROR	0			0	123	HS2T	50	150	RESVD	0
16	RESVD	0	43	A2HY	0.001	70	MODE	0	O	(	0	124	RESVD	0	151	SFT	0
17	PB	0.01	44	A2FT	0	71	PROG71	62			0	125	RESVD	0	152	SFL1	0
18	TI	100	45	A2SP	-17.75	72	CMND	0	99	SEL5	0	126	RESVD	0	153	SFL2	0
19	TD	25	46	A2DV	0.001	73	JOB1	0	100	SEL6	0	127	FILE	0	154	SFTH	-16.6
20	OUT1	0	47	A30T	0	74	JOB2	0	101	SEL7	0	128	PV .	-17.778	155	SFTR	0
21	01TY	1	48	A3FN	12	75	JOB3	0	102	SEL8	0	129	SV	-17.71			
22	01FT	2	49	A3MD	0	76	CUCT	0	103	OFS1	1	130	MV1	100			
23	U1HY	0.001	50	A3HY	0.001	77	ADLO	4.6	104	UFS2	0	131	MV2	0			
24	CYC1	18.1	51	A3FT	0	78	ADHI	8.2	105	OFS3	0	132	PASS	0			
25	OFST	25	52	A3SP	0.01	79	RTDL	-199.9	106	RETY	0	133		0			
26	RAMP	2	53	A3DV	0.001	80	RTDH	-199.9	107	IRELO	-17.6	134	<u>I</u> OFÍL	]0			

1-1 Successful communication Single Controller

Image: Contract of the second sec	<ul> <li>BC-Set V1.9</li> <li>File System Help</li> </ul>		_	$\times$
Error × Read failed. Please try again. 1 OK	🖄 🔃 😫 😫			
	Error Read faile	xd. Please try again. 1		

1-2 Communication Failure

🟓 BC-Set V1.9			- 🗆 ×
File System Help			
🗕 🖪 🕑 📑 🔮			
Add(10621 Add(2)			
			1
ADDR NAME VALUE ADDI	R NAME VALUE ADDR NAME VALUE	ADDR NAME VALUE ADDR NAME VALUE	ADDR NAME VALUE
0 SP1 24.7 27	RR 0 54 RESVD 0	81 CJLO 25.63 108 REHI 100	135 OFTH 0
1 SP2 100 28	OUT2 2 55 RESVD 0	82 CJHI 0 109 ADDR 1	136 CALO 0
2 SP3 100 29	02TY 0 56 RESVD 0	83 V1L 25.1 110 BAUD 2	137 CAHI 100
3 RESVD 0 30	02FT 0 57 RESVD 0	84 V1G -11.1 111 DATA 1	138 RESVD 0
4 RESVD 0 31	CYC2 18 58 RESVD 0	85 MA1L 9.5 112 PARI 0	139 RESVD 0
5 RESVD 0 32	CPB 100 59 RESVD 0	86 MA1G -51.8 113 STOP 0	140 PROG 62.11
6 RESVD 0 33	DB 0 60 RESVD 0	87 RESVD 0 114 CT1R 0	141 E1FN 0
7 DTMR 0 34	A1FN 2 61 BPL1 0	88 RESVD 0 115 CT2R 0	142 E2FN 0
8 INPT 1 35	A1MD 0 62 BPL2 0	89 RESVD 0 116 HBEN 0	143 RESVD 0
<u>9 UNIT 0 36</u>	A1HY 0.1 63 CJCL 5130	90 RESVD 0 117 HBHY 0.1	144 RESVD 0
10 DP 1 37	A1FT 0 64 PV64 26	0 118 HB1T 0	145 RESVD 0
11 INLO 0 38	A1SP 100 65 SV65 24	100 <u>119 HB2T 0</u>	146 RESVD 0
12 INHI 100 39	A1DV 10 66 MV166 0	0 <u>120 HSEN 0</u>	147 A1DL 0
13 SP1L -17.8 40	A2U1 U 67 MV267 U Read	I successfully ! 100 121 HSHY U.1	148 A2DL U
14 SP1H 537.8 41	A2FN 2 68 TIMER U	U 122 HS11 50	149 A3DL U
15 FILI 2 42	AZMD U 69 ERUR U	U 123 HS21 50	150 RESVD U
16 RESVD U 43	A2HT U.I 70 MODE U	OK 0 124 RESVD 0	
10 TL 100 44	A2CD 100 71 PRUG7 62		
19 TD 25 40	A25F 100 72 LOB1 0		154 SETU 100
20 00011 0 47	A207 10 73 JUBT 0		
21 01TY 1 47	A3EN 2 75 10B2 0	100 SEL8 0 120 FV 20.0	
22 01FT 0 40	A3MD 0 76 CICT 0	103 0ES1 1 130 MV1 0	
23 01HY 01 50	A3HY 0.1 77 ADLO 3.5	104 DES2 0 131 MV2 0	
24 CYC1 1 51	A3FT 0 78 ADHI -71	105 0ES3 0 132 PASS 0	
25 DEST 25 52	A3SP 100 79 BTDI -72	106 BETY 0 133 CODE 0	
26 BAMP 0 53	A3DV 10 80 BTDH 2.3	107 BELO 0 134 OFTL 0	
			, <u> </u>

#### 1-3 Successful Communication Multiple Controllers

Once the parameters are listed the user can edit the parameters and write them to controllers. If the same type of controllers connected then the parameters can be read and write at once by selecting the range of node addresses.

#### **1.8** Configuration of Communication parameter

The communication parameter setup of software can be configured by using the configuration menu in the system menu. In the configuration, all parameters have to be configured as per the connected controller's connection and configuration. If multiple controllers are connected then all the controllers have to be configured with the same communication parameters.

ا 🥩	BC-Set V1.9															_		$\times$
File	System	Help																
Ð	😤 Rescar 🕐 Read I	n Data	F5 F6															
Addr	📲 Write I	Data	F7															
	😼 Write I	Multiple	F8 5		haue 1		MAME	barne T		MAME			MAME			MAME	haue -	т
	Confic	uration	F9	BB	N ALUE	54	BESVD	0	81		25.63	108	BEHI	100	135	OFTH	N NALUE	
1	Profile	r Editor			2	55	BESVD	0	82	СІНІ	0	109	ADDB	1	136		0	1 1
2	ISP3	100	129	02TY	0	56	RESVD	0	83	V1L	25.1	110	BAUD	2	137	CAHI	100	
3	RESVD	0	30	02FT	0	57	RESVD	0	84	V1G	-11.1	111	DATA	1	138	RESVD	0	
4	RESVD	0	31	CYC2	18	58	RESVD	0	85	MA1L	9.5	112	PARI	0	139	RESVD	0	
5	RESVD	0	32	CPB	100	59	RESVD	0	86	MA1G	-51.8	113	STOP	0	140	PROG	62.11	
6	RESVD	0	33	DB	0	60	RESVD	0	87	RESVD	0	114	CT1R	0	141	E1FN	0	
7	DTMR	0	34	A1FN	2	61	BPL1	0	88	RESVD	0	115	CT2R	0	142	E2FN	0	
8	INPT	1	35	A1MD	0	62	BPL2	0	89	RESVD	0	116	HBEN	0	143	RESVD	0	
9	UNIT	0	36	A1HY	0.1	63	CUCL	5130	90	RESVD	0	117	HBHY	0.1	144	RESVD	0	
10	DP	1	37	A1FT	0	64	PV64	26.4	91	PL1L	0	118	HB1T	0	145	RESVD	0	
11	INLO	0	38	A1SP	100	65	SV65	24.7	92	PL1H	100	119	HB2T	0	146	RESVD	0	
12	INHI	100	39	A1DV	10	66	MV166	0	93	PL2L	0	120	HSEN	0	147	A1DL	0	
13	SP1L	-17.8	40	A20T	0	67	MV267	0	94	PL2H	100	121	HSHY	0.1	148	A2DL	0	
14	SP1H	537.8	41	A2FN	2	68	TIMER	0	95	SEL1	0	122	HS1T	50	149	A3DL	0	
15	FILT	2	42	A2MD	0	69	EROR	0	96	SEL2	0	123	HS2T	50	150	RESVD	0	
16	RESVD	0	43	A2HY	0.1	70	MODE	0	97	SEL3	0	124	RESVD	0	151	SFT	0	
17	PB	10	44	A2FT	0	71	PROG71	62.11	98	SEL4	0	125	RESVD	0	152	SFL1	0	
18	TI	100	45	A2SP	100	72	CMND	0	99	SEL5	0	126	RESVD	0	153	SFL2	0	
19	TD	25	46	A2DV	10	73	JOB1	0	100	SEL6	0	127	FILE	0	154	SFTH	100	
20	OUT1	0	47	A30T	0	74	JOB2	0	101	SEL7	0	128	PV	26.6	155	SFTR	0	
21	01TY	1	48	A3FN	2	75	JOB3	0	102	SEL8	0	129	SV	24.7				
22	01FT	0	49	A3MD	0	76	CJCT	0	103	OFS1	1	130	MV1	0				
23	01HY	0.1	50	A3HY	0.1	77	ADLO	3.5	104	OFS2	0	131	MV2	0				
24	CYC1	1	51	A3FT	0	78	ADHI	-7.1	105	OFS3	0	132	PASS	0				
25	OFST	25	52	A3SP	100	79	RTDL	-7.2	106	RETY	0	133	CODE	0				
26	RAMP	0	53	A3DV	10	80	RTDH	2.3	107	RELO	0	134	OFTL	0				

1-4 System Menu



#### 1.9 Guideline for Communication Failure

If the software can't read the parameters from the controller then check the below

guidelines.

- 1. Check the communication cable is connected properly or not.
- 2. Check the communication port configuration of the controller and the software are the same or not.
- 3. If RS485 or RS232 communication is used for communication then check the controller has proper communication module on it or not
- 4. If the programming port is used for communication then the programming port cable is connected properly or not.
- 5. If the problem still can't be resolved then there might be a problem on hardware. Contact the supplier for assistance.

# 1.10 Profile Configuration

If the connected controller has a profile function then the profile can be configured by using the profile configuration option in the system menu. The profile parameters can be read and write from the controller in this window.

🤔 BC-Set V1.9	-	
File System Help		
📑 🛃 Rescan 🛛 🖓	F5 👔 🊓	
💳 😷 Read Data 🛛 F6	F6	
Addr. 📲 Write Data 🛛 🖓	F7	
📊 🐕 Write Multiple 🛛 🗗		
n 😪 Configuration F9	F9 B 25 C 54 A0T 0 91 CHO 25 5 108 EFH C	0
1 Profiler Editor	01172 2 255 445N 2 82 CHH 0 109 40DB 2 136 C410	
2 ISP3 I-6	22 021Y 0 56 A4MD 0 83 V1L -831 110 BAUD 2 137 CAH	10
3 SP4 -6	30 02FT 0 57 A4HY 0.01 84 V1G 6.3 111 DATA 1 138 BESVD	
4 SP5 -6	31 CYC2 18 58 A4FT 0 85 MA1L -6 112 PARI 0 139 RESVD	0
5 SP6 -6	32 CPB 100 59 A4SP -6 86 MA1G -4 113 STOP 0 140 PROG	44.05
6 SP7 -6	33 DB 0 60 A4DV 1 87 V2L 0 114 CT1R 0 141 E1FN	0
7 DTMR 0	34 A1FN 2 61 BPL1 0 88 V2G 0 115 CT2R 0 142 E2FN	0
8 INPT 16	35 A1MD 0 62 BPL2 0 89 MA2L 0 116 HBEN 0 143 E3FN	0
<u>9 UNIT</u> 0	<u>36 A1HY</u> 0.01 <u>63 CJCL</u> 4518 <u>90 MA2G</u> 0 <u>117 HBHY</u> 0.1 <u>144 E4FN</u>	0
10 DP 2	<u>37 A1FT 0 64 PV64 -17.78 <u>31 PL1L 0 118 HB1T 0 145 E5FN</u></u>	0
11 INLO -17.78	<u>38 A1SP -6 65 SV65 -13.5 92 PL1H 100 119 HB2T 0 146 E6FN</u>	0
12 INHI -6.67	39 A1DV 1 66 MV166 100 93 PL2L 0 120 HSEN 0 147 A1DL	0
13 SP1L -17.78	40 A20T 0 67 MV267 0 94 PL2H 100 121 HSHY 0.1 148 A2DL	0
14 SP1H 37.78	41 A2FN 2 68 TIMER 0 95 SEL1 0 122 HS1T 50 149 A3DL	0
15 FILT 2	42 A2MD 0 69 EROR 0 96 SEL2 0 123 HS2T 50 150 A4DL	0
16 DISP 1	43 A2HY 0.01 70 MODE 0 97 SEL3 0 124 RMSP 0 151 SFT	0
17 PB 1	44 A2FT 0 71 PR0G7144.05 98 SEL4 0 125 RINL -17.78 152 SFL1	0
18 TI 100	45 A2SP -6 72 CMND 0 99 SEL5 0 126 RINH -6.67 153 SFL2	0
19 TD 25	46 A2DV 1 73 JOB1 0 100 SEL6 0 127 FILE 0 154 SFTH	-6
20 OUT1 0	47 A30T 0 74 J0B2 0 101 SEL7 0 128 PV -17.78 155 SFTR	0
21 01TY 0	48 A3FN 2 75 JOB3 0 102 SEL8 0 129 SV -13.5	
22 01FT 0	49 A3MD 0 76 CUCT 0 103 OFS1 1 130 MV1 100	
23 01HY 0.01	50 A3HY 0.01 77 ADLO 3.6 104 OFS2 0 131 MV2 0	
24 CYC1 18	51 A3FT 0 78 ADHI 6.1 105 0FS3 0 132 PASS 0	
25 OFST 25	52 A35P -6 79 RTDL -9.6 106 RETY 0 133 CODE 0	
26  RAMP 1	133 1430V 11 180 1810H 1-33.5 107 18ELO 1-16 134 10FTL 0	

1-6 Profile Editor

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🔋 Foi	rm8												_ 0
			_										
	F	Read		Write									
AD	DDR	NAME	VALUE	ADDR	NAME	VALUE	ADDR	NAME	VALUE	ADDR	NAME	VALUE	
16	61	PROF	0 NONE	175	TSP1	-6	193	TSP7	-6	211	TSPD	-6	
16	52	RUN	0 StAR	176	RPT1	00.00	194	RPT7	00.00	212	RPTD	00.00	
16	53	RMPU	0 HH.MM	177	SKT1	00.00	195	SKT7	00.00	213	SKTD	00.00	
16	54	STAR	0 PV	178	TSP2	-6	196	TSP8	-6	214	TSPE	-6	
16	65	END	0 SP1	179	RPT2	00.00	197	RPT8	00.00	215	RPTE	00.00	
16	56	PFR	2 SP1	180	SKT2	00.00	198	SKT8	00.00	216	SKTE	00.00	
16	67	HBLO	0	181	TSP3	-6	199	TSP9	-6	217	TSPF	-6	
16	68	нвні	0	182	RPT3	00.00	200	RPT9	00.00	218	RPTF	00.00	
16	69	нвт	00.00	183	SKT3	00.00	201	SKT9	00.00	219	SKTF	00.00	
17	70	CYCL	1	184	TSP4	-6	202	TSPA	-6	220	TSPG	-6	
17	71	CYCR	1	185	RPT4	00.00	203	RPTA	00.00	221	RPTG	00.00	
17	72	STEP	1.RP	186	SKT4	00.00	204	SKTA	00.00	222	SKTG	00.00	
17	73	TIMR	00.00	187	TSP5	-6	205	TSPB	-6				
17	74	STAT	1	188	RPT5	00.00	206	RPTB	00.00				
				189	SKT5	00.00	207	SKTB	00.00				
				190	TSP6	-6	208	TSPC	-6				
				191	RPT6	00.00	209	RPTC	00.00				
				192	SKT6	00.00	210	SKTC	00.00				
				-		1							

1-7 C Series Profile Configuration

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File System Help		
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Addr4[P41]		
🔗 Profiler Editor		- 🗆 X
Global Data Read Write STAR END DLAY PFR HBT Profile Data Profile Data Profile Data MPU DLLU Write	Segment Data Segment_No Combo  SGTY TGSP RTRR P2EV HBTY DLLT SEG CYCL FSP Write	Special Func   Profile_No   Backup To File   Restore Form File   Save To Txt File

1-8 Profile Editor for P41

### 1.11 File Menu

## 1.11.1 Open-File (F2)

Open the parameter list of the connected controller from the existing file. By pressing F2 on the keyboard also to open the file.

# 1.11.2 Save File As (F3)

Save the parameter list to the file. By pressing F3 on the keyboard also to save

the file.

## 1.11.3 Exit (F4)

Close the application. By pressing F4 on the keyboard also to close the file.

## 1.12 System Menu

### 1.12.1 Rescan (F5)

Rescan will scan the connected controllers again for communication. By pressing the key F5 on the keyboard also will read the data.

## 1.12.2 Read Data (F6)

Read data will read the data again from the controller. By pressing the key F6 on the keyboard also will read the data.

#### 1.12.3 Write Data (F7)

Write the data to the connected controller. By pressing the key F7 on the keyboard also write the data.

#### 1.12.4 Write Multiple data (F8)

Write the data to multiple controllers connected. By pressing the key F8 on the keyboard also write the data to multiple controllers.

#### 1.12.5 Configuration (F9)

Open the window to configure the communication settings of the software. By pressing F9 on the keyboard also to open the configuration window.

#### 1.12.6 Profile Editor

Open the profile editor for the controllers with profile function.

#### 1.13 Help Menu

Provide information about the software version.