



PPI OmniX BTC Open Frame Dual Set Point Temperature Controller Instruction Manual

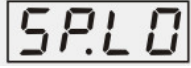
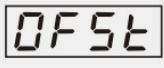
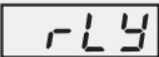
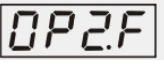
[Home](#) » [PPI](#) » PPI OmniX BTC Open Frame Dual Set Point Temperature Controller Instruction Manual 

OmniX BTC

Open Frame Dual Set Point Temperature Controller Instruction Manual

This brief manual is primarily meant for quick reference to wiring connections and parameter searching. For more details on operation and application; please log on to www.ppiindia.net

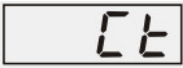
INPUT / OUTPUT CONFIGURATION PARAMETERS

Parameters	Settings (Default Value)
Input Type 	Refer Table 1 (Default : Type K)
Control Logic 	  Reverse Direct (Default :Reverse)
Setpoint Low 	Min. Range to Setpoint High for the selected Input type (Default : Min. Range for the) Selected Input Type
Setpoint High 	Setpoint Low to ax. Range M for the selected Input type (Default : Max . Range for the Selected input) Selected Input Type
Offset For PV 	-1999 to 9999 or -199.9 to 999.9 (Default : 0)
Digital Filter For PV 	0.5 to 25.0 Seconds (in steps of 0.5 Seconds) (Default : 1.0)
Control Output Type 	  Relay (Default) SSR
Output-2 Function Selection 	     (Default) None Alarm Control Blower Soak Start Output
Output 2 Type 	  Relay (Default) SSR

Contents

- [1 CONTROL PARAMETERS](#)
- [2 OUTPUT-2 FUNCTION PARAMETERS](#)
- [3 SUPERVISORY PARAMETERS](#)
- [4 OPERATOR PARAMETERS](#)
- [5 FRONT PANEL LAYOUT](#)
- [6 Documents / Resources](#)
 - [6.1 References](#)
- [7 Related Posts](#)

CONTROL PARAMETERS

Parameters	Settings (Default Value)
Control Mode 	  (Default) On-Off PID
On-Off Hysteresis 	1 to 999 or 0.1 to 99.9 (Default : 2 or 0.2)
Compressor Time Delay 	0 to 600 Sec. (in steps of 0.5 Sec.) (Default : 0)
Cycle Time 	0.5 to 120.0 Seconds (in steps of 0.5 Seconds) (Default : 20.0 Sec)

Proportional Band 	0.1 to 999.9 (Default : 10.0)
Integral Time 	0 to 1000 Seconds (Default : 100 Sec)
Derivative Time 	0 to 250 Seconds (Default : 25 Sec)

OUTPUT-2 FUNCTION PARAMETERS

OP2 Function : Alarm

Parameters	Settings (Default Value)
Alarm Type	 Process Low Process High Deviation Band Window Band End of Soak (Default : Process Low)
Alarm Inhibit	 Yes No (Default : Yes)
Alarm Logic	 Normal Reverse (Default : Normal)
Alarm Timer	5 to 250 (Default : 10)

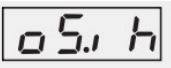
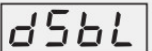
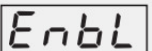
OP2 Function : Control

Parameters	Settings (Default Value)
Hysteresis	1 to 999 or 0.1 to 99.9 (Default : 2 or 0.2)
Control Logic	 Normal Reverse (Default : Normal)

OP2 Function : Blower

Parameters	Settings (Default Value)
Blower / Compressor Hysteresis	1 to 250 or 0.1 to 25.0 (Default : 2 or 0.2)
Blower / Compressor Time Delay	0 to 600 Sec. (in steps of 0.5 Sec.) (Default : 0)

SUPERVISORY PARAMETERS

Parameters	Settings (Default Value)
Self-tune Command 	  Yes No (Default : No)
Overshoot Inhibit Enable / Disable 	Disable Enable (Default : Disable)  
Overshoot Inhibit Factor 	(Default : 1.2) 1.0 to 2.0
Setpoint Editing Permission on Operator Page 	Disable Enable (Default : Enable)  
Soak Abort Command on Operator Page 	Disable Enable (Default : Enable)  
Soak Time Adjustment on Operator Page 	Disable Enable (Default : Enable)  

OPERATOR PARAMETERS

OP2 Function : Alarm

Parameters x	Settings (Default Value)
Soak Start Command 	  No Yes (Default : No)
Soak Abort Command 	  No Yes (Default : No)
Soak Time 	00.05 to 60.00 M:S or 00.05 to 99.55 H:M or 1 to 999 Hours (Default : 3 or 0.3)
Alarm Setpoint 	Minimum to Maximum Range specified for the selected Input Type (Default : 0)

Parameters	Settings (Default Value)
Alarm Deviation 	-1999 to 9999 or -199.9 to 999.9 (Default : 3 or 0.3)
Alarm Band 	3 to 999 or 0.3 to 99.9 (Default : 3 or 0.3)

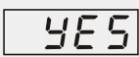
OP2 Function : Control

Parameters	Settings (Default Value)
Auxiliary Control Setpoint 	(Min. Range – SP) to (Max. Range – SP) (Default : 0)

OP2 Function : Blower

Parameters	Settings (Default Value)
Blower Control Setpoint 	0.0 to 25.0 (Default : 0)

Control Setpoint (SP) Locking

Parameters	Settings (Default Value)
Setpoint Locking 	  Yes No (Default : No)

SOAK TIMER PARAMETERS

Parameters	Settings (Default Value)
Soak Timer Enable	 No Yes (Default : No)
Time Units	 Manse Hours: Min Hours (Default : Min: Sec)
Soak Time	00.05 to 60:00 Manse 00.05 to 99:55 Hrs: Min 1 to 999 Hours (Default : 00.10 Manse)
Soak start Band	0 to 9999 or 0.0 to 999.9 (Default : 5 or 0.5)
Holdback Strategy	 None Up Down Both (Default : None)

Parameters	Settings (Default Value)
Hold Band	1 to 9999 or 0.1 to 999.9 (Default : 5 or 0.5)
Switch-off Control Output At Timer End 	 No Yes (Default : No)
Power-fail Recovery Method	 Continue (Re)Start Abort (Default : Continue)

Option	What it means	Range (Min. to Max.)	Resolution
	Type J Thermocouple	0 to+960°C	1
	Type K Thermocouple	-200 to+1375°C	1
	3-wire, RTD Pt100	-199 to+600°C	1
	3-wire, RTD Pt100 –	-199.9 to+600.0°C	0.1

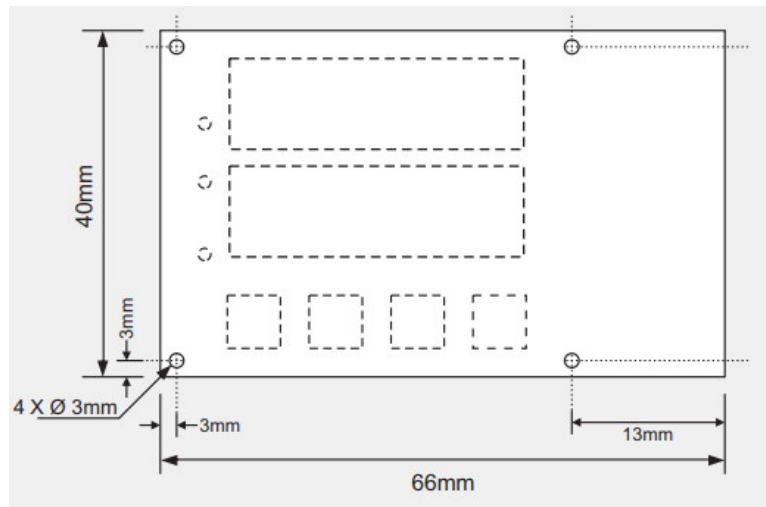
FRONT PANEL LAYOUT

Display Board

Small Display Version

0.39" height, 4 Digit, Upper Row

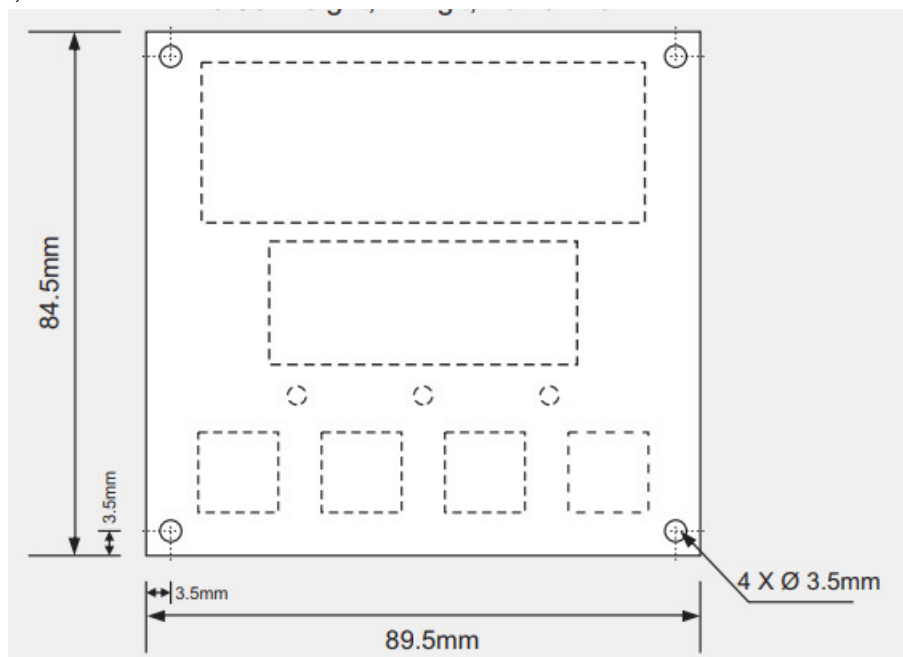
0.39" height, 4 Digit, Lower Row



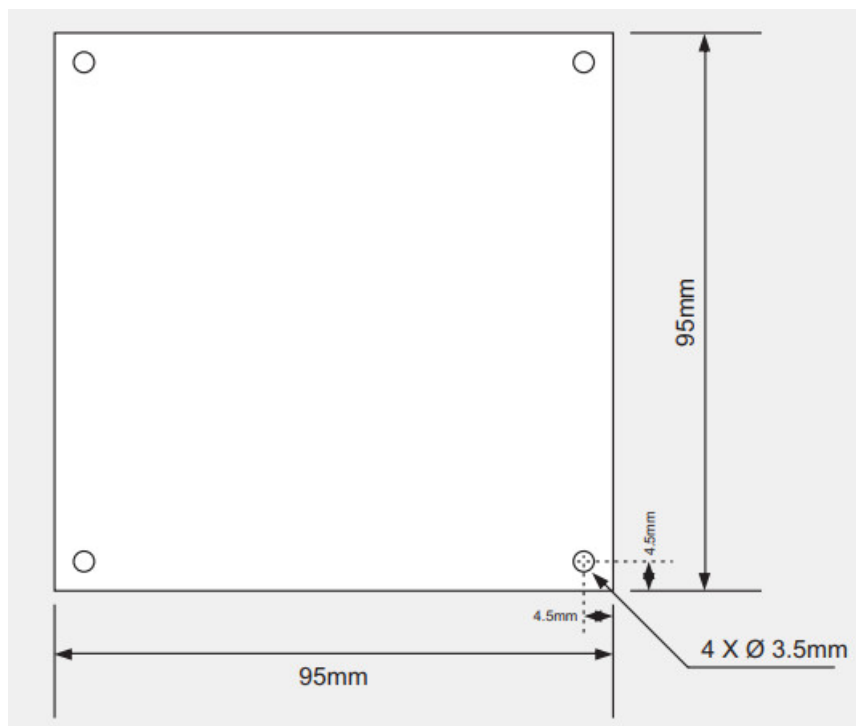
Large Display Version

0.80" height, 4 Digit, Upper Row

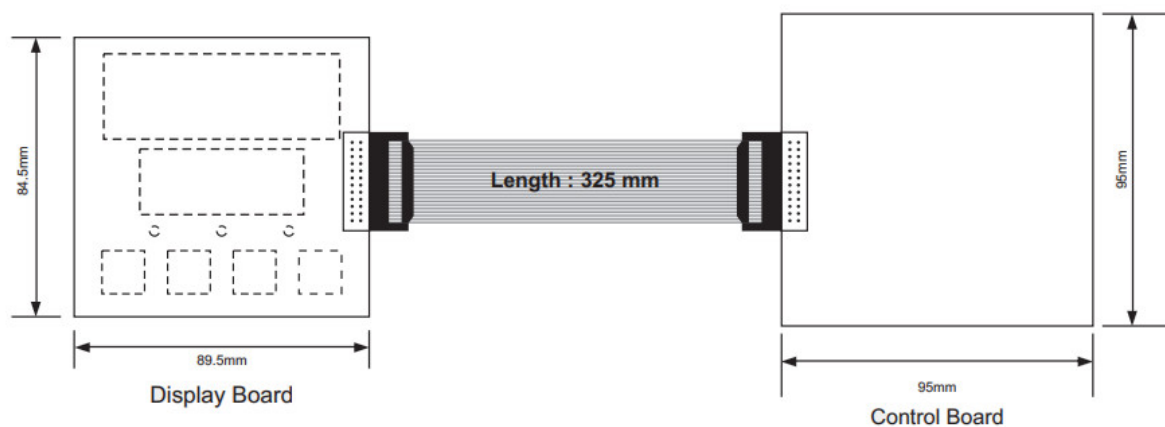
0.56" height, 4 Digit, Lower Row



Control Board



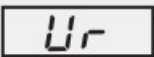
Layout



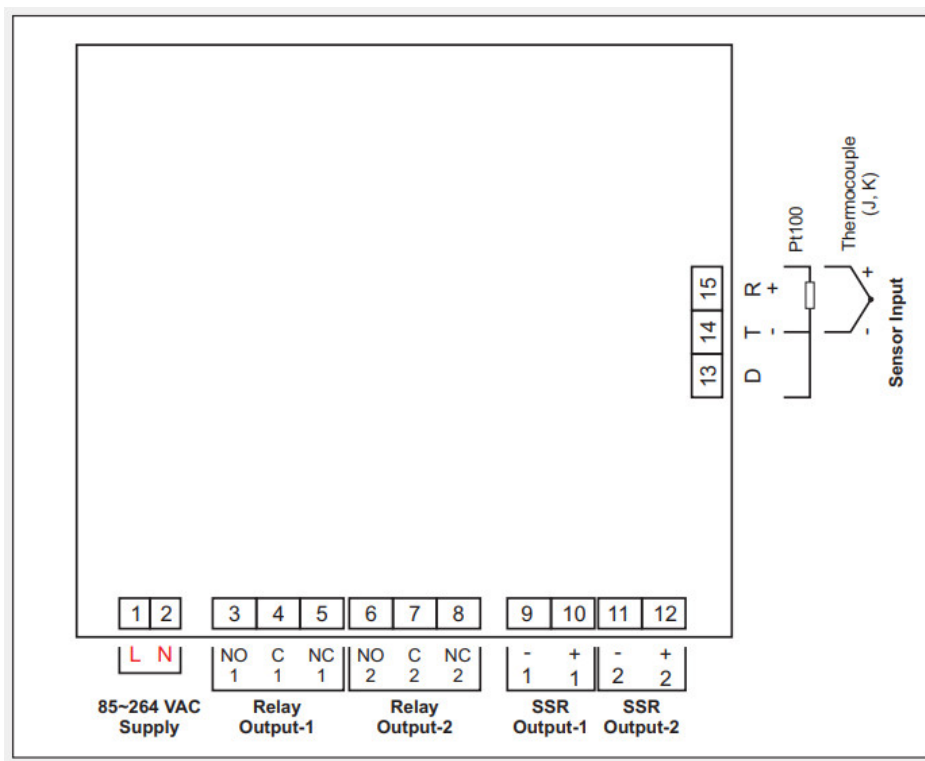
Keys Operation

Symbol	Key	Function
	PAGE	Press to enter or exit set-up mode.
	DOWN	Press to decrease the parameter value Pressing once decreases the value by one count; holding pressed speeds up the change.
	UP	Press to increase the parameter value Pressing once increases the value by one count; holding pressed speeds up the change.
	ENTER	Press to store the set parameter value and to scroll to the next parameter on the PAGE.

PV Error Indications

Message	PV Error Type
	Over-range (PV above Max. Range)
	Under-range (PV below Min. Range)
	Open (Thermocouple / RTD broken)

ELECTRICAL CONNECTIONS



OmniX BTC

101, Diamond Industrial Estate, Namghar,
Vasai Road (E), Dist. Palghar – 401 210.

Sales : 8208199048 / 8208141446

Support : 07498799226 / 08767395333

E: sales@ppiindia.net,

support@ppiindia.net

Documents / Resources

	PPI OmniX BTC Open Frame Dual Set Point Temperature Controller [pdf] Instruction Manual OmniX BTC, OmniX BTC Open Frame Dual Set Point Temperature Controller, Open Frame Dual Set Point Temperature Controller, Dual Set Point Temperature Controller, Temperature Controller
---	---

References

- [🔗 Factory Automation Products India | Automation Solutions in India](#)

Manuals+.