



PPI zenex-ultra Ultra Precision Self Tune PID Temperature Controller Instruction Manual

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PPI zenex-ultra Ultra Precision Self Tune PID Temperature Controller



PARAMETERS

CONFIGURATION PARAMETERS

Parameters	Settings (Default Value)
Calibration Offset OFSt	-19.99 to +25.00 (Default : 0.00)
Control Mode CtRL	PId PID On,OF On-Off (Default : PID)
Overshoot Inhibit oSh <i>(Available for PID control only)</i>	EnbL Enable dSbL Disable (Default : Enable)
Control Logic CLOG <i>(Available for On-Off or Pulsed On-Off Control only)</i>	rEu Reverse d,r Direct (Default : Reverse)
Hysteresis HYST <i>(Available for On-Off or Pulsed On-Off Control only)</i>	0.10 to 25.00 (Default : 0.20)
Digital Filter for PV F,LT	1.0 to 25.0 Seconds in steps of 0.5 Seconds (Default : 1.5)

SUPERVISORY PARAMETERS

Parameters	Settings (Default Value)
Setpoint Locking SLOC	no No YES Yes (Default : No)
Self-tune on Setpoint Change EnSP	EnbL Enable d5bL Disable (Default : Disable)
Optimize Command OPT	no No YES Yes (Default : No)
Controller ID Number ID	1 to 8 (Default : 1)
Baud Rate BAUD	12 1200 24 2400 48 4800 96 9600 (Default : 4800)
Communication Write Enable ConE	no No YES Yes (Default : No)

PID CONTROL PARAMETERS

Parameters	Settings (Default Value)
Cycle Time CT	0.5 to 120.0 Seconds (in steps of 0.5 secs.) (Default : 20 sec for relay 1 sec for SSR)
Proportional Band Pb	0.01 to 99.99 °C (Default : 10.00 °C)
Integral Time IT	0 to 1000 Seconds (Default : 100 Sec)
Derivative Time DT	0 to 250 Seconds (Default : 25 Sec)

OP2 FUNCTION PARAMETERS

Parameters	Settings (Default Value)
Output-2 Function Selection OP2.F	nonE None ALr$\bar{n}$ Alarm bLOr Blower SoAK Soak (Default : None)
OP2 Function : Alarm	
Alarm Type tYPE	P_Lo Process Low P_Hi Process High dEu Deviation Band bAnd Window Band (Default : Process Low)
Alarm Setpoint AL.SP	Min. to Max. Range for the selected Input type (Default : 0)
Deviation Band bAnd	-1999 to 9999 or -199.9 to 999.9 (Default : 0)
Window Band bAnd	3 to 999 or 0.3 to 99.9 (Default : 3)
Alarm Logic ALLG	d.r Direct rEu Reverse (Default : Direct)
Alarm Inhibit AL.h	YES Yes no No (Default : Yes)
Parameters	Settings (Default Value)
OP2 Function : Blower/Compressor Control	
Offset Value bL.SP	0 to 250 or 0.0 to 25.0 (Default : 0)
Hysteresis bL.HY	1 to 250 or 0.1 to 25.0 (Default : 2 or 0.2)
Time Delay t.DLY	00.00 to 10.00 Min. Sec (in steps of 5 Seconds) (Default : 00.00)
OP2 Function : Soak	
Soak Time SoK.t	1 to 9999 min (Default : 30 min)
End-of-soak Output Status EoS	nonE None H.OFF Heater Off ALOn Alarm On both Both (Default : None)

OP3 FUNCTION PARAMETERS

Parameters	Settings (Default Value)
Output-3 Function OP3F	nonE None ALr$\bar{n}$ Alarm HbrP Heater-break (Default : None)
Alarm Type EYPE	P_Lo Process Low P_Hi Process High dEu Deviation Band bAnd Window Band (Default : Process Low)
Alarm Setpoint AL.SP	0.00 to 99.99 (Default : 0.00)
Deviation Band bAnd	-19.99 to +25.00 (Default : 0.00)
Window Band bAnd	3.30 to +25.00 (Default : 0.30)
Alarm Logic ALLG	d.r Direct rEu Reverse (Default : Direct)
Alarm Inhibit AL.h	EnbL Enable dSbL Disable (Default : Enable)

Parameters	Settings (Default Value)
Heater-break Output HbrP (Not implemented. Ignore this parameter.)	ALr$\bar{n}$ Alarm tr.P Trip (Default : Alarm)

INSTALLATION PARAMETERS

Parameters	Settings (Default Value)
Output Type C.OP	Refer Table 1 (Default : SSR)

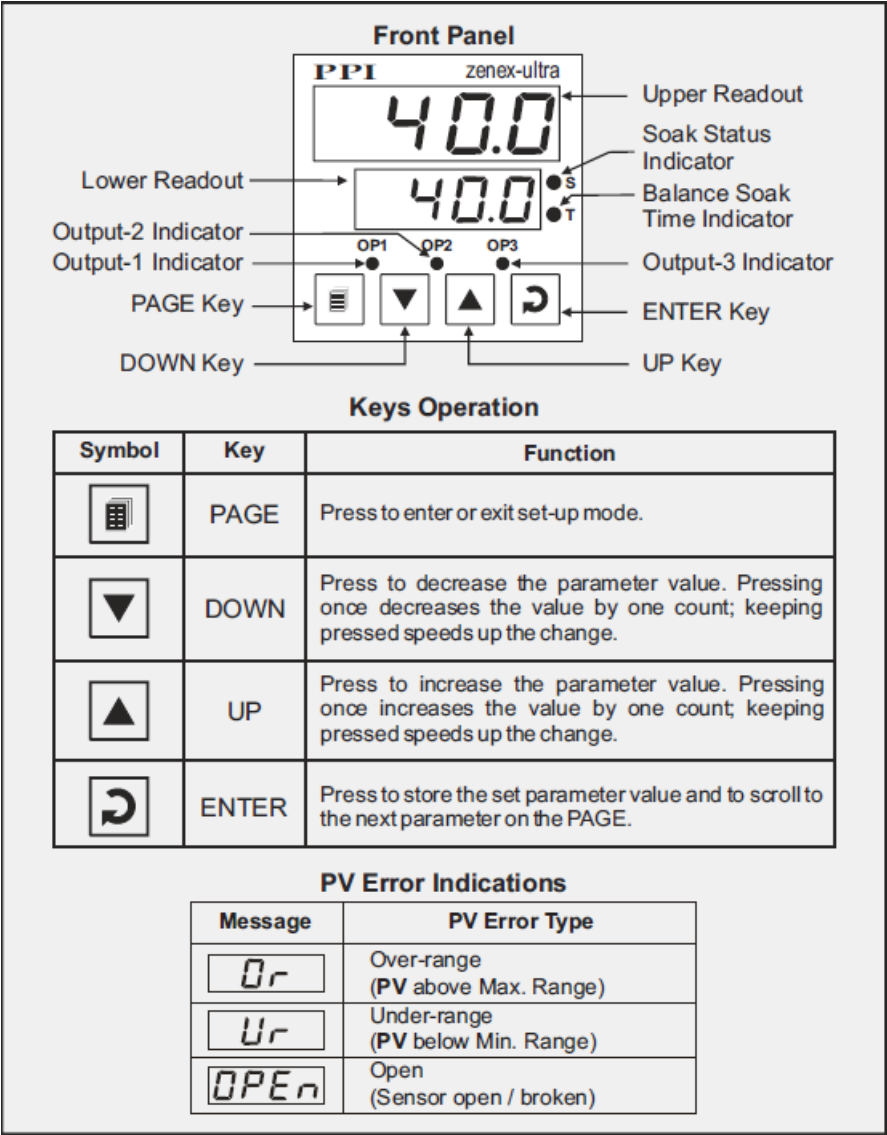
TABLE- 1

Option	What it means	Remarks
rLY	Electro-mechanical Relay contacts (common & Normally Open)	20 Sec
SSr	DC voltage pulses for driving external Solid State Relay (SSR)	1 Sec

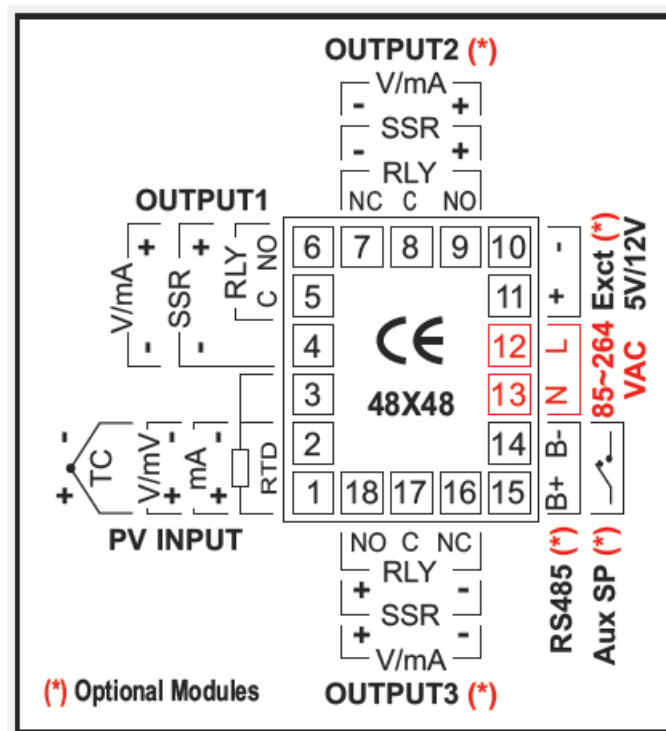
OPERATOR PARAMETER

Parameters	Setting
Output Power 	View Only Parameter

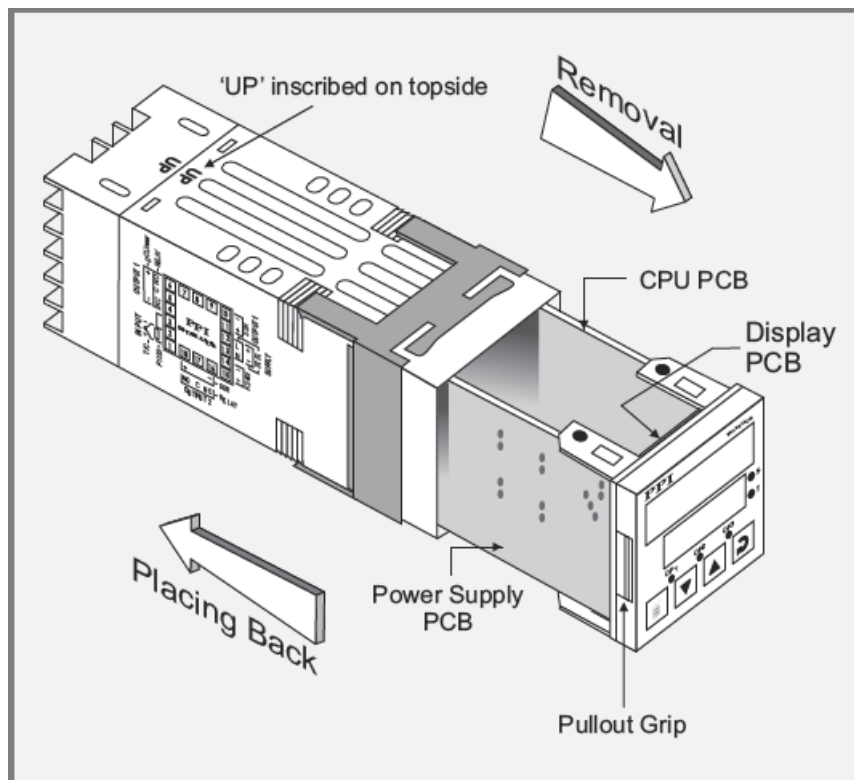
FRONT PANEL LAYOUT



ELECTRICAL CONNECTIONS

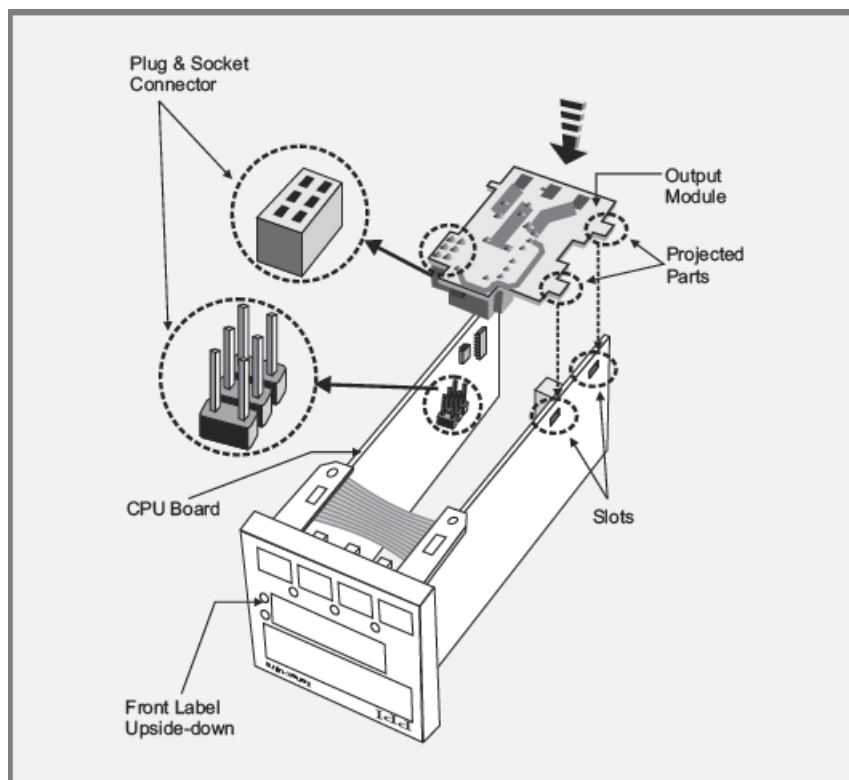


ENCLOSURE ASSEMBLY

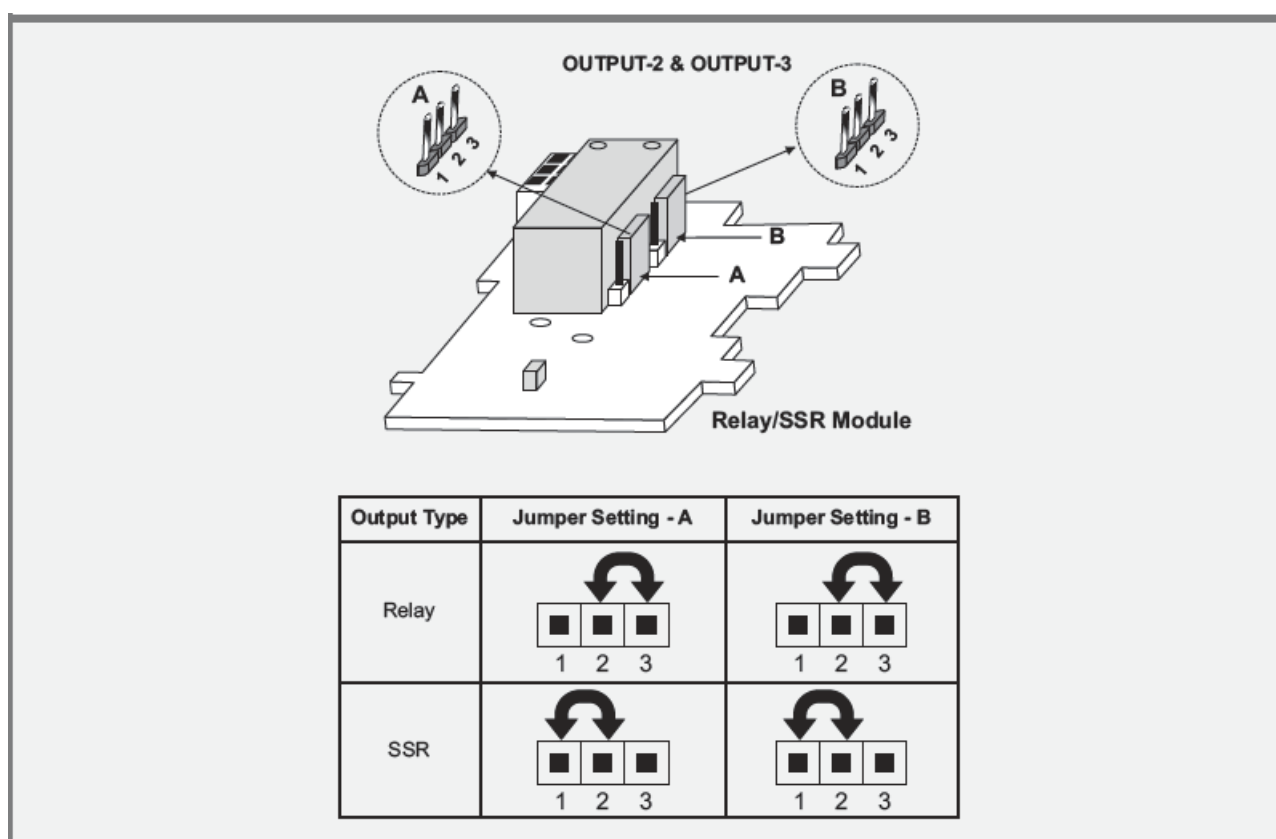


MOUNTING

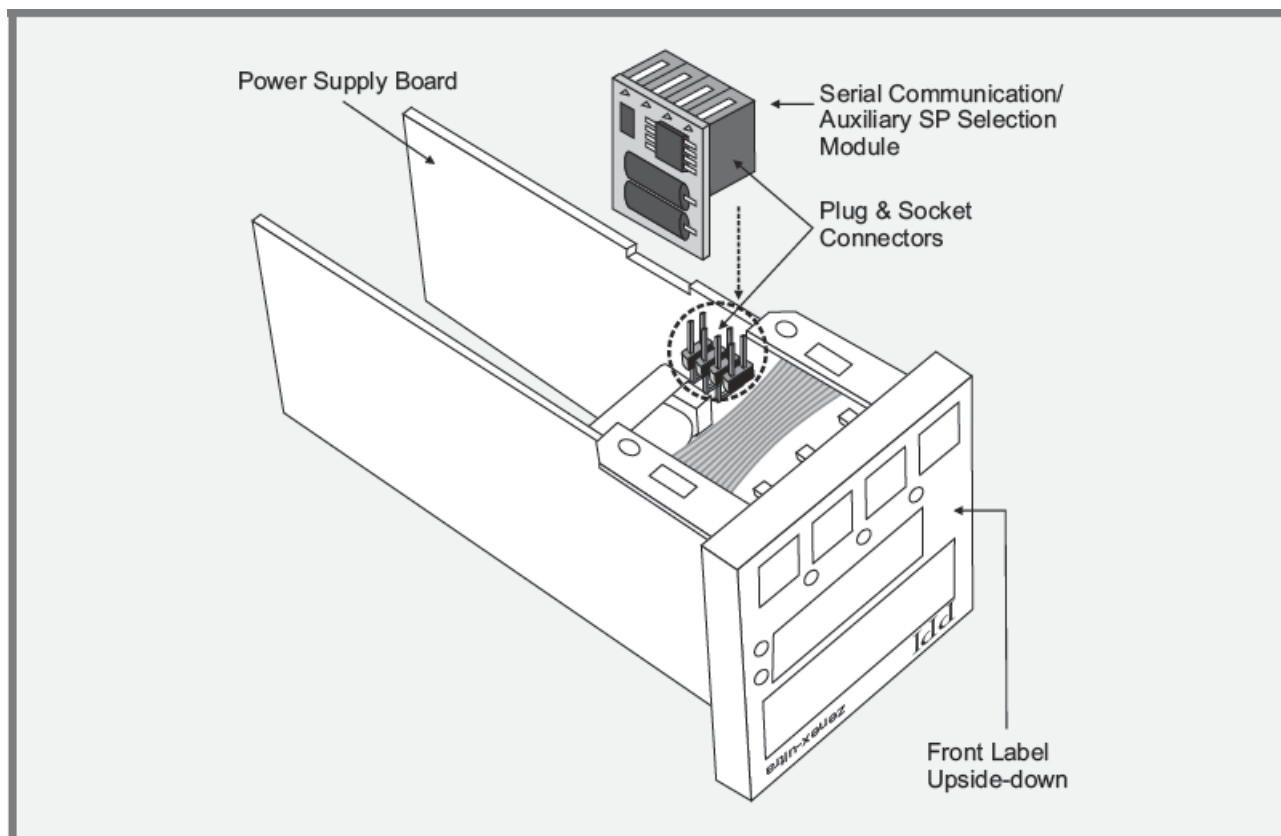
MOUNTING DETAILS OUTPUT -2MODULE



JUMPER SETTINGS RELAY & SSR



MOUNTING DETAILS SERIAL COMM. MODULE

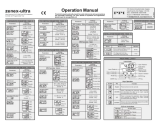


This brief manual is primarily meant for quick reference to wiring connections and parameter searching. For more details on operation and application; please log on to www.ppiindia.net

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Documents / Resources

	PPI zenex-ultra Ultra Precision Self Tune PID Temperature Controller [pdf] Instruction Manual zenex-ultra, zenex-ultra Ultra Precision Self Tune PID Temperature Controller, Ultra Precision Self Tune PID Temperature Controller, Self Tune PID Temperature Controller, PID Temperature Controller, Temperature Controller
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References

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