



INPUT / OUTPUT PARAMETERS : PAGE 12	
Parameters	Settings (Default Value)
Hand (manual) made Enable/Disable HRnd	EnbL Enable d5bL Disable (Default : Disable)
Quick Adjustment of Setpoint Enable/Disable SP	EnbL Enable d5bL Disable (Default : Enable)
Control Output Type C-OP	rLY Relay SSr SSR 0-20 0-20mA 4-20 4-20mA (Default : Relay)
Sensor Input Type INPt	tC-J Type J tC-K Type K tC-T Type T tC-R Type R tC-S Type S tC-B Type B tC-N Type N rESu Reserved rtD RTD Pt100 0-20 0-20mA 4-20 4-20mA 0050 0 to 50mV 0200 0 to 200mV 125 0 to 1.25mV 50 0 to 5.0mV 100 0 to 10.0mV (Default : Type K)
Resolution For PV rSLn	Refer Table 1 for the available max / min Ranges & Resolution for each input type. (Default : 1)
Range Low For PV rLo	Same as above (Default : 0)
Range High For PV rHi	Same as above (Default : 1000)
Setpoint Low SPLo	Same as above (Default : -200)
Setpoint High SPHi	Same as above (Default : 1300)
Offset for PV OFSE	-1999 to 9999 (Default : 0)
Digital Filter For PV FILT	0.5 to 25.0 (Default : 1.0)

CONTROL PARAMETERS : PAGE 10	
Parameters	Settings (Default Value)
Control Setpoint SP	Setpoint Low to Setpoint High (Default : 0)
Proportional Band Pb	0 to 999 Units (Default : 50 units)
Hysteresis HYSL	1 to 250 (Default : 2)
Integral Time IT	0 to 1000 Seconds (Default : 100 Sec.)
Derivative Time dt	0 to 250 Seconds (Default : 25 Sec.)
Cycle Time CT	0.5 to 120.0 (Default : 20.0)
Relative cool Gain rELG	0.1 to 10.0 (Default : 1.0)
Cool Cycle Time CCt	0.5 to 120.0 (Default : 20.0)
Power Low Limit PL	0 to less than Power High (Default : 0)
Power High Limit PH	Greater than Power Low to 100 (Default : 100)

OP2 & OP3 FUNCTION PARAMETERS : PAGE 14	
Parameters	Settings (Default Value)
Output-2 Function Selection OP2F	ALrn Alarm CCOn Cool control PFEu Profile Event (Default : Alarm)
Output-2 Type OP2t	rLY Relay SSr SSR 0-20 0-20mA 4-20 4-20mA (Default : Relay)
Output-3 Function Selection OP3F	ALrn Alarm rEC Recorder PFEu Profile Event (Default : Alarm)
Recorder Output Type rECo	0-20 0-20mA 4-20 4-20mA (Default : 0-20mA)
Recorder Low rECL	Range Low to Range High (Default : 0)
Recorder High rECH	Range Low to Range High (Default : 0)

ALARM PARAMETERS : PAGE 11	
Parameters	Settings (Default Value)
Alarm-1 Type AL-1	nonE None P-Lo Process Low P-Hi Process High dE Deviation Band bRnd Window Band EOP End of Profile (Default : None)
Alarm-1 Setpoint AL1SP	Throughout the range for the selected input type (Default : 0)
Alarm-1 Deviation Band AL1dE	-999 to 999 (Default : 0)
Alarm-1 Window Band AL1bR	3 to 999 (Default : 3)
Alarm-1 Hysteresis AL1HY	1 to 999 (Default : 2)
Alarm-1 Logic AL1L	dir Direct rEu Reverse (Default : Direct)
Alarm-1 Inhibit AL1h	no No YES Yes (Default : No)
Alarm-2 Type AL-2	nonE None P-Lo Process low P-Hi Process high dE Deviation Band bRnd Window Band EOP End of Profile (Default : None)
Alarm-2 Setpoint AL2SP	Throughout the range for the selected input type (Default : 0)
Alarm-2 Deviation Band AL2dE	-999 to 999 (Default : 0)
Alarm-2 Window Band AL2bR	3 to 999 (Default : 3)
Alarm-2 Hysteresis AL2HY	1 to 999 (Default : 2)
Alarm-2 Logic AL2L	dir Direct rEu Reverse (Default : Direct)
Alarm-2 Inhibit AL2h	no No YES Yes (Default : No)

PROFILE : SEGMENT PARAMETERS : PAGE 15	
Parameters	Settings (Default Value)
Select Profile Number PrFn	1 to Max. configured
Select Set Number SEtn	1 to Max. configured
Ramp Rate rRtE	0.00 to 99.99 (Default : 0.00)
Target Setpoint tSP	Range Low to Range High (Default : 0)
Soak Time SOAP	0 to 9999 (Default : 0)

PROFILE : CONFIGURATION PARAMETERS : PAGE 18	
Parameters	Settings (Default Value)
Profile Enable/Disable PrDF	EnbL Enable d5bL Disable (Default : Enable)
Output(S) Off OPDF	no No YES Yes (Default : No)
Numbers of Profile nPrF	1 to 2
Select Profile Number PrFn	1 to Max. configured
Numbers of Sets for the Selected Profile nSEt	1 to 8
Number of Programs nPrG	1 to 16
Reset Programs Set-UP rStP	no No YES Yes (Default : No)

PROFILE : BAND / EVENT PARAMETERS : PAGE 16	
Parameters	Settings (Default Value)
Select Profile Number PrFn	1 to Max. configured
Ramp Hold Band rbnd	0 to 250 (Default : 0)
Soak Hold Band sbnd	0 to 250 (Default : 0)
Select Segment Number SEGn	1 to twice the Max. configured Sets
Output-2 Event Time OP2Et	0 to 9999 (Default : 0)
Output-2 Event Status OP2ES	ON, OFF (Default : ON)
Output-3 Event Time OP3Et	0 to 9999 (Default : 0)
Output-3 Event Status OP3ES	ON, OFF (Default : ON)

UTILITY PARAMETERS : PAGE 13	
Parameters	Settings (Default Value)
Self Tune Commands tUnE	no No YES Yes (Default : No)
Overshoot Inhibit oSh	EnbL Enable d5bL Disable (Default : Disable)
Baud Rate bAud	1200, 2400, 4800, 9600 (Default : 9600)
Controller ID Number id	1 to 31 (Default : 1)
Communication Write Enable ConE	no No YES Yes (Default : No)

TABLE - 1		
Option	Range (Min. to Max.)	Resolution
tC-J J Type T/C	0 to +760°C / +32 to +1400°F	Fixed 1°C / 1°F
tC-K K Type T/C	-200 to +1300°C / -328 to +2372°F	
tC-T T Type T/C	-200 to +350°C / -328 to +662°F	
tC-R R Type T/C	0 to +1770°C / +32 to +3092°F	
tC-S S Type T/C	0 to +1700°C / +32 to +3092°F	User settable 1°C / 1°F or 0.1°C / 0.1°F
tC-B B Type T/C	+200 to +1700°C / +392 to +3092°F	
tC-N N Type T/C	0 to +1300°C / +32 to +2372°F	
rESu RTD Pt100	-199 to +600°C / -328 to +1112°F or -199.9 to 600.0°C / -199.9 to 999.9°F	
0-20 0 to 20mA DC	-1999 to +9999 units	User settable 1 / 0.1 / 0.01 / 0.001 units
4-20 4 to 20mA DC		
0050 0 to 50mV DC		
0200 0 to 200mV DC		
125 0 to 1.25V DC		
50 0 to 5.0V DC		
100 0 to 10.0V DC		

FRONT PANEL LAYOUT

Upper Readout → 350.0
Lower Readout → 350.0
Output-2 Indicator → OP1
Output-1 Indicator → OP2
PAGE Key → OP3
DOWN Key → [Down Arrow]
UP Key → [Up Arrow]
ENTER Key → [Enter]

Ramp Indicator
Soak Indicator
Output-3 Indicator

Keys Operation

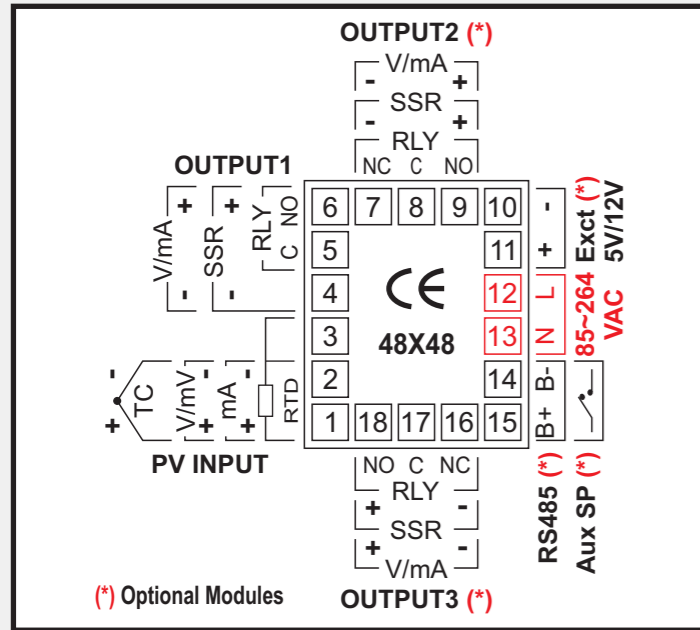
Symbol	Key	Function
[PAGE]	PAGE	Press to enter or exit set-up mode.
[DOWN]	DOWN	Press to decrease the parameter value. Pressing once decreases the value by one count; keeping pressed speeds up the change.
[UP]	UP	Press to increase the parameter value. Pressing once increases the value by one count; keeping pressed speeds up the change.
[ENTER]	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
Or	Over-range (PV above Max. Range)
Ur	Under-range (PV below Min. Range)
OPEn	Open (Sensor open / broken)

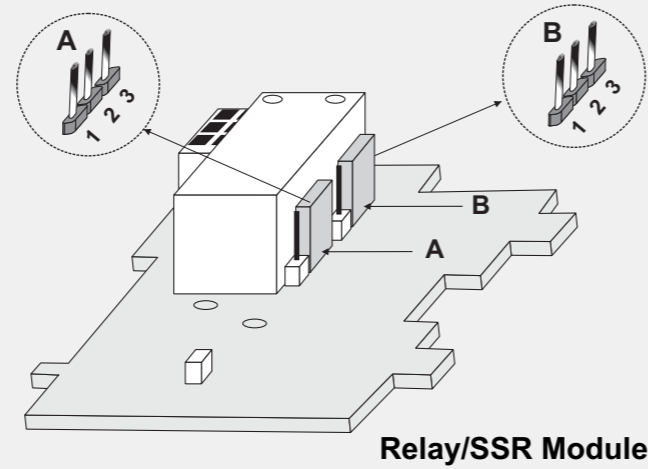
NOTE : For Page 17 Kindly Refer the Detailed Manual on www.ppiindia.net

ELECTRICAL CONNECTIONS



JUMPER SETTINGS

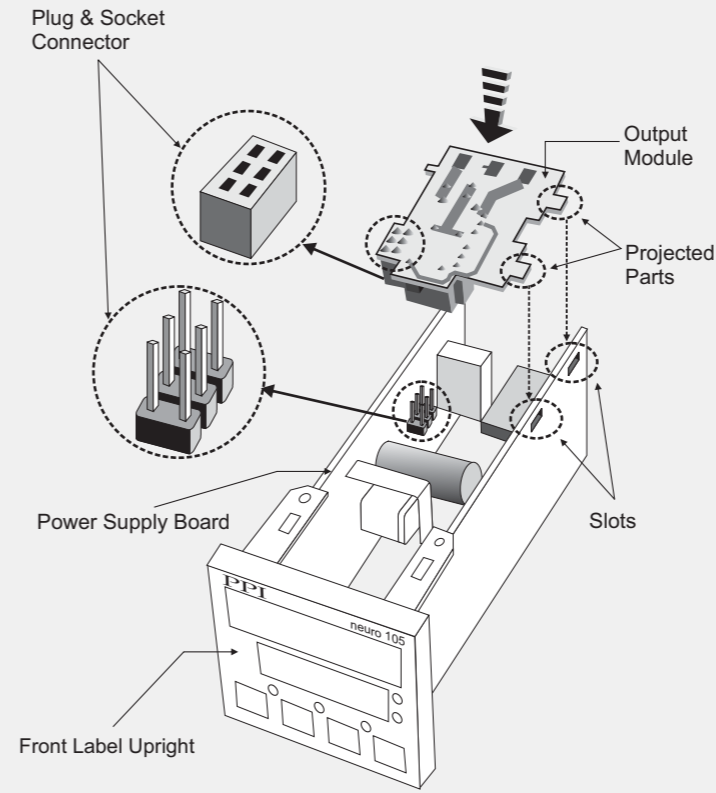
OUTPUT-2 & OUTPUT-3



Output Type	Jumper Setting - A	Jumper Setting - B
Relay		
SSR		

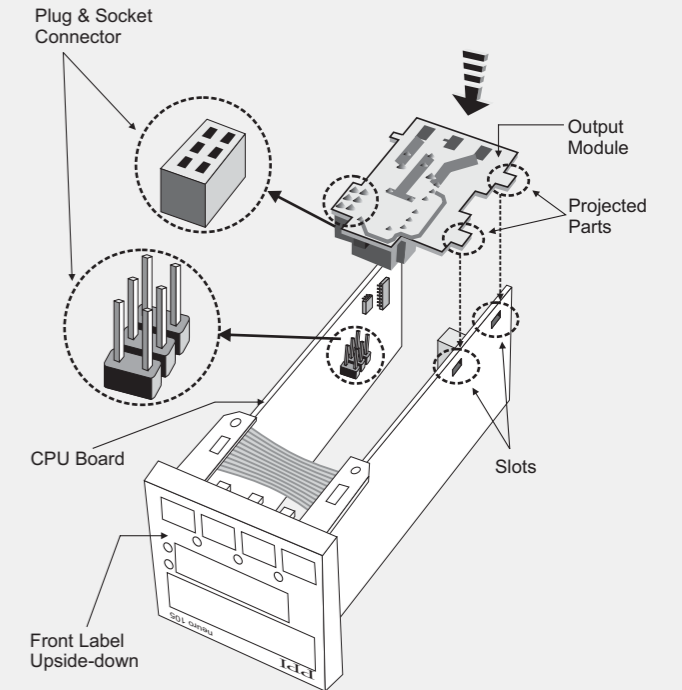
MOUNTING DETAILS

OUTPUT-2 MODULE

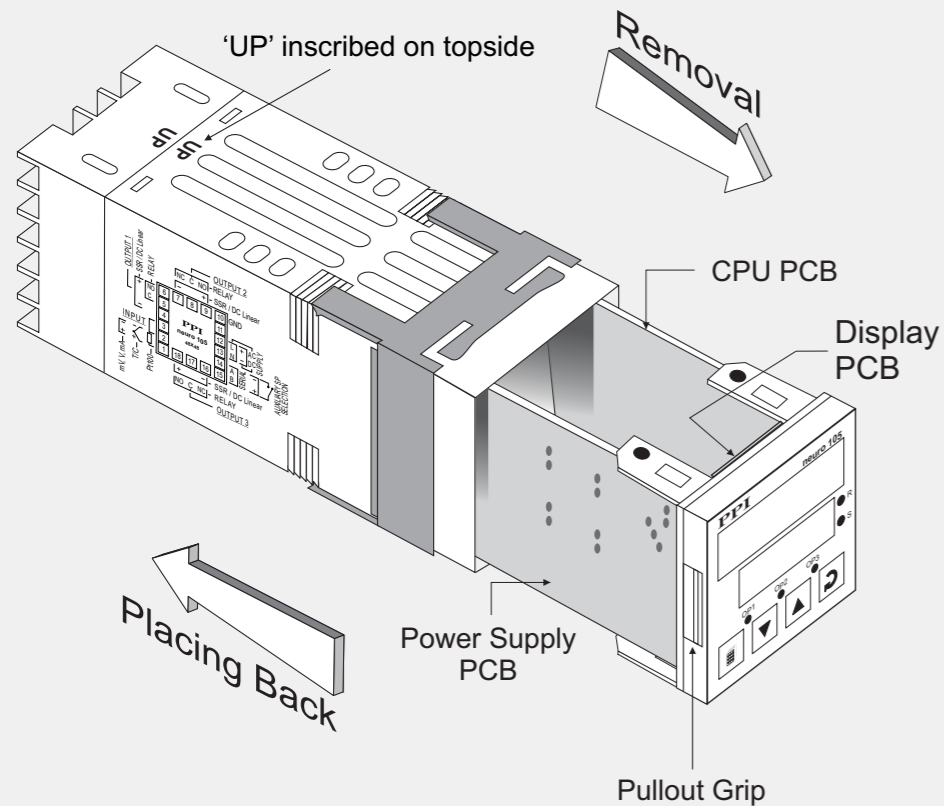


MOUNTING DETAILS

OUTPUT-3 MODULE

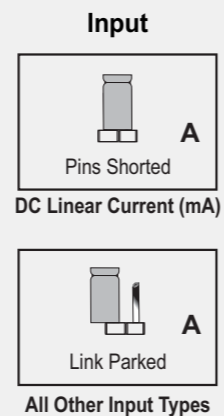
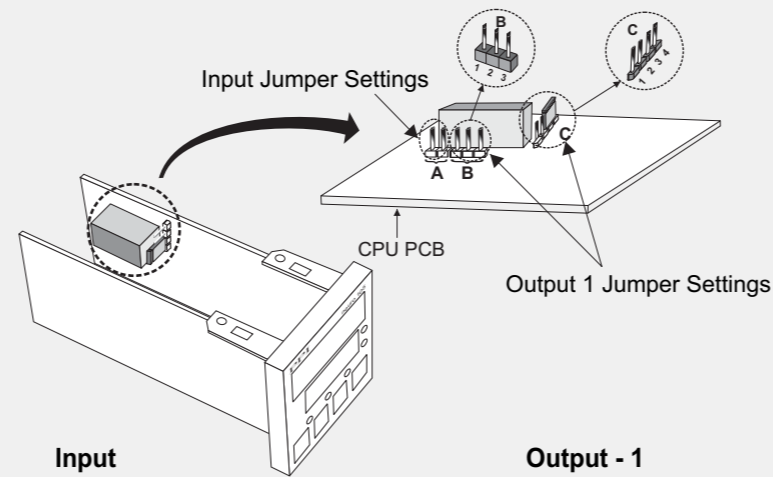


ENCLOSURE ASSEMBLY



JUMPER SETTINGS

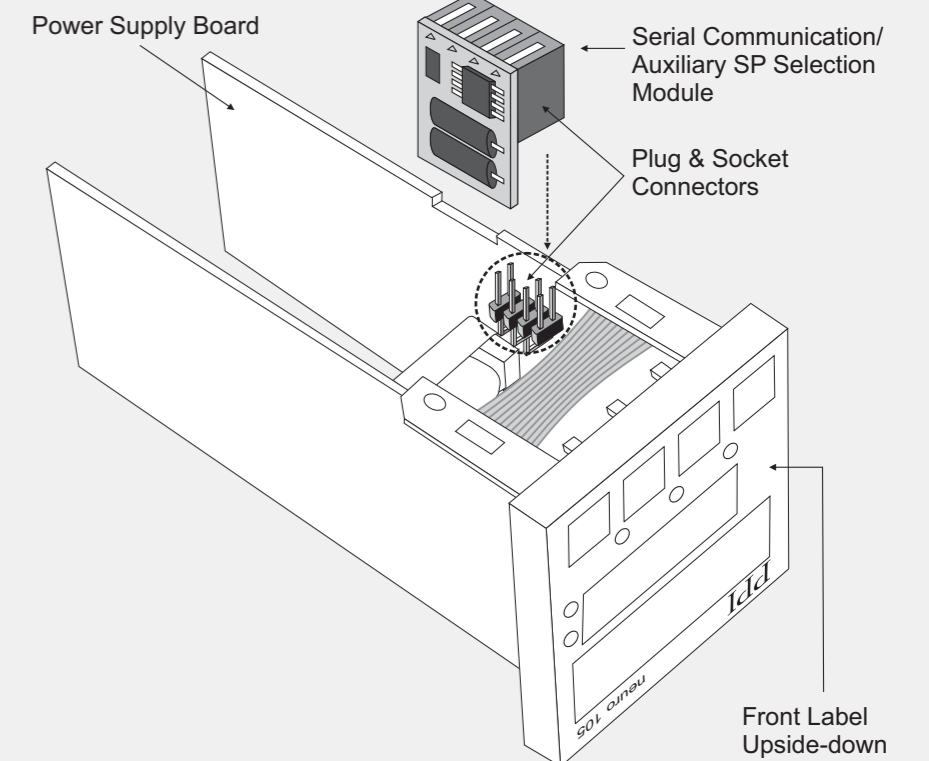
INPUT & OUTPUT-1



Output - 1

Output Type	Jumper Setting - B	Jumper Setting - C
Relay		
SSR Drive		
DC Linear Current (or Voltage)		

MOUNTING DETAILS



INPUT / OUTPUT PARAMETERS : PAGE 12	
Parameters	Settings (Default Value)
Hand (manual) made Enable/Disable HRnd	EnbL Enable d5bL Disable (Default : Disable)
Quick Adjustment of Setpoint Enable/Disable SP	EnbL Enable d5bL Disable (Default : Enable)
Control Output Type C-OP	rLY Relay SSr SSR 0-20 0-20mA 4-20 4-20mA (Default : Relay)
Sensor Input Type INPt	tC-J Type J tC-K Type K tC-T Type T tC-R Type R tC-S Type S tC-B Type B tC-N Type N rESu Reserved rtd RTD Pt100 0-20 0-20mA 4-20 4-20mA 0050 0 to 50mV 0200 0 to 200mV 125 0 to 1.25mV 50 0 to 5.0mV 100 0 to 10.0mV (Default : Type K)
Resolution For PV rSLn	Refer Table 1 for the available max / min Ranges & Resolution for each input type. (Default : 1)
Range Low For PV rLo	Same as above (Default : 0)
Range High For PV rHi	Same as above (Default : 1000)
Setpoint Low SPLo	Same as above (Default : -200)
Setpoint High SPHi	Same as above (Default : 1300)
Offset for PV OFSE	-1999 to 9999 (Default : 0)
Digital Filter For PV F.Lt	0.5 to 25.0 (Default : 1.0)

CONTROL PARAMETERS : PAGE 10	
Parameters	Settings (Default Value)
Control Setpoint SP	Setpoint Low to Setpoint High (Default : 0)
Proportional Band Pb	0 to 999 Units (Default : 50 units)
Hysteresis HYSE	1 to 250 (Default : 2)
Integral Time It	0 to 1000 Seconds (Default : 100 Sec.)
Derivative Time dt	0 to 250 Seconds (Default : 25 Sec.)
Cycle Time Ct	0.5 to 120.0 (Default : 20.0)
Relative cool Gain rELG	0.1 to 10.0 (Default : 1.0)
Cool Cycle Time CCt	0.5 to 120.0 (Default : 20.0)
Power Low Limit PL	0 to less than Power High (Default : 0)
Power High Limit PH	Greater than Power Low to 100 (Default : 100)

OP2 & OP3 FUNCTION PARAMETERS : PAGE 14	
Parameters	Settings (Default Value)
Output-2 Function Selection OP2F	ALrn Alarm CCOn Cool control PFEu Profile Event (Default : Alarm)
Output-2 Type OP2t	rLY Relay SSr SSR 0-20 0-20mA 4-20 4-20mA (Default : Relay)
Output-3 Function Selection OP3F	ALrn Alarm rEC Recorder PFEu Profile Event (Default : Alarm)
Recorder Output Type rECt	0-20 0-20mA 4-20 4-20mA (Default : 0-20mA)
Recorder Low rECL	Range Low to Range High (Default : 0)
Recorder High rECH	Range Low to Range High (Default : 0)

ALARM PARAMETERS : PAGE 11	
Parameters	Settings (Default Value)
Alarm-1 Type AL-1	nonE None P-Lo Process Low P-Hi Process High dE Deviation Band bRnd Window Band EOP End of Profile (Default : None)
Alarm-1 Setpoint ALSP	Throughout the range for the selected input type (Default : 0)
Alarm-1 Deviation Band ALdE	-999 to 999 (Default : 0)
Alarm-1 Window Band ALbA	3 to 999 (Default : 3)
Alarm-1 Hysteresis ALHY	1 to 999 (Default : 2)
Alarm-1 Logic ALL	dir Direct rEu Reverse (Default : Direct)
Alarm-1 Inhibit ALih	no No YES Yes (Default : No)
Alarm-2 Type AL-2	nonE None P-Lo Process low P-Hi Process high dE Deviation Band bRnd Window Band EOP End of Profile (Default : None)
Alarm-2 Setpoint AL2SP	Throughout the range for the selected input type (Default : 0)
Alarm-2 Deviation Band AL2dE	-999 to 999 (Default : 0)
Alarm-2 Window Band AL2bA	3 to 999 (Default : 3)
Alarm-2 Hysteresis AL2HY	1 to 999 (Default : 2)
Alarm-2 Logic AL2L	dir Direct rEu Reverse (Default : Direct)
Alarm-2 Inhibit AL2ih	no No YES Yes (Default : No)

PROFILE : SEGMENT PARAMETERS : PAGE 15	
Parameters	Settings (Default Value)
Select Profile Number PrFn	1 to Max. configured
Select Set Number SEtn	1 to Max. configured
Ramp Rate rRtE	0.00 to 99.99 (Default : 0.00)
Target Setpoint tSP	Range Low to Range High (Default : 0)
Soak Time SOAP	0 to 9999 (Default : 0)

PROFILE : CONFIGURATION PARAMETERS : PAGE 18	
Parameters	Settings (Default Value)
Profile Enable/Disable PrDF	EnbL Enable d5bL Disable (Default : Enable)
Output(S) Off OPDF	no No YES Yes (Default : No)
Numbers of Profile nPrF	1 to 2
Select Profile Number PrFn	1 to Max. configured
Numbers of Sets for the Selected Profile nSEt	1 to 8
Number of Programs nPrG	1 to 16
Reset Programs Set-UP rStP	no No YES Yes (Default : No)

PROFILE : BAND / EVENT PARAMETERS : PAGE 16	
Parameters	Settings (Default Value)
Select Profile Number PrFn	1 to Max. configured
Ramp Hold Band rband	0 to 250 (Default : 0)
Soak Hold Band Sband	0 to 250 (Default : 0)
Select Segment Number SEtn	1 to twice the Max. configured Sets
Output-2 Event Time OP2Et	0 to 9999 (Default : 0)
Output-2 Event Status OP2ES	ON, OFF (Default : ON)
Output-3 Event Time OP3Et	0 to 9999 (Default : 0)
Output-3 Event Status OP3ES	ON, OFF (Default : ON)

UTILITY PARAMETERS : PAGE 13	
Parameters	Settings (Default Value)
Self Tune Commands tUnE	no No YES Yes (Default : No)
Overshoot Inhibit oSh	EnbL Enable d5bL Disable (Default : Disable)
Baud Rate bAud	1200, 2400, 4800, 9600 (Default : 9600)
Controller ID Number id	1 to 31 (Default : 1)
Communication Write Enable ConE	no No YES Yes (Default : No)

TABLE - 1		
Option	Range (Min. to Max.)	Resolution
tC-J J Type T/C	0 to +760°C / +32 to +1400°F	Fixed 1°C / 1°F
tC-K K Type T/C	-200 to +1300°C / -328 to +2372°F	
tC-T T Type T/C	-200 to +350°C / -328 to +662°F	
tC-R R Type T/C	0 to +1770°C / +32 to +3092°F	
tC-S S Type T/C	0 to +1700°C / +32 to +3092°F	User settable 1°C / 1°F or 0.1°C / 0.1°F
tC-B B Type T/C	+200 to +1700°C / +392 to +3092°F	
tC-N N Type T/C	0 to +1300°C / +32 to +2372°F	
rESu RTD Pt100	-199 to +600°C / -328 to +1112°F or -199.9 to 600.0°C / -199.9 to 999.9°F	
0-20 0 to 20mA DC	-1999 to +9999 units	User settable 1 / 0.1 / 0.01 / 0.001 units
4-20 4 to 20mA DC		
0050 0 to 50mV DC		
0200 0 to 200mV DC		
125 0 to 1.25V DC		
50 0 to 5.0V DC		
100 0 to 10.0V DC		

FRONT PANEL LAYOUT

Keys Operation

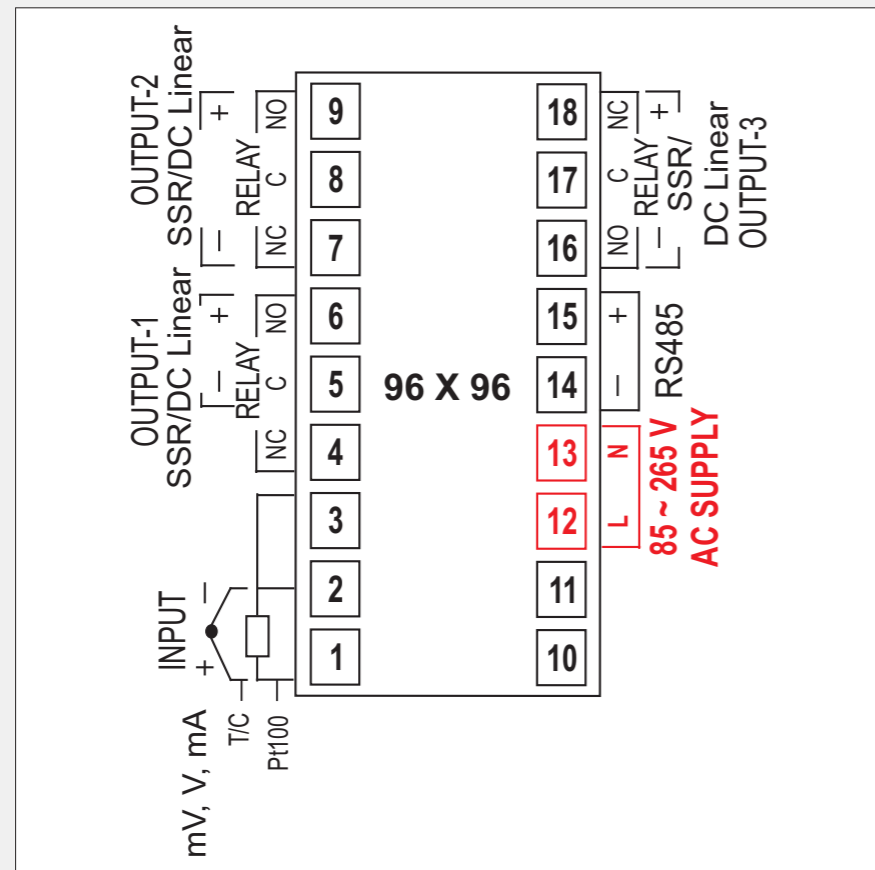
Symbol	Key	Function
	PAGE	Press to enter or exit set-up mode.
	DOWN	Press to decrease the parameter value. Pressing once decreases the value by one count; keeping pressed speeds up the change.
	UP	Press to increase the parameter value. Pressing once increases the value by one count; keeping pressed speeds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

PV Error Indications

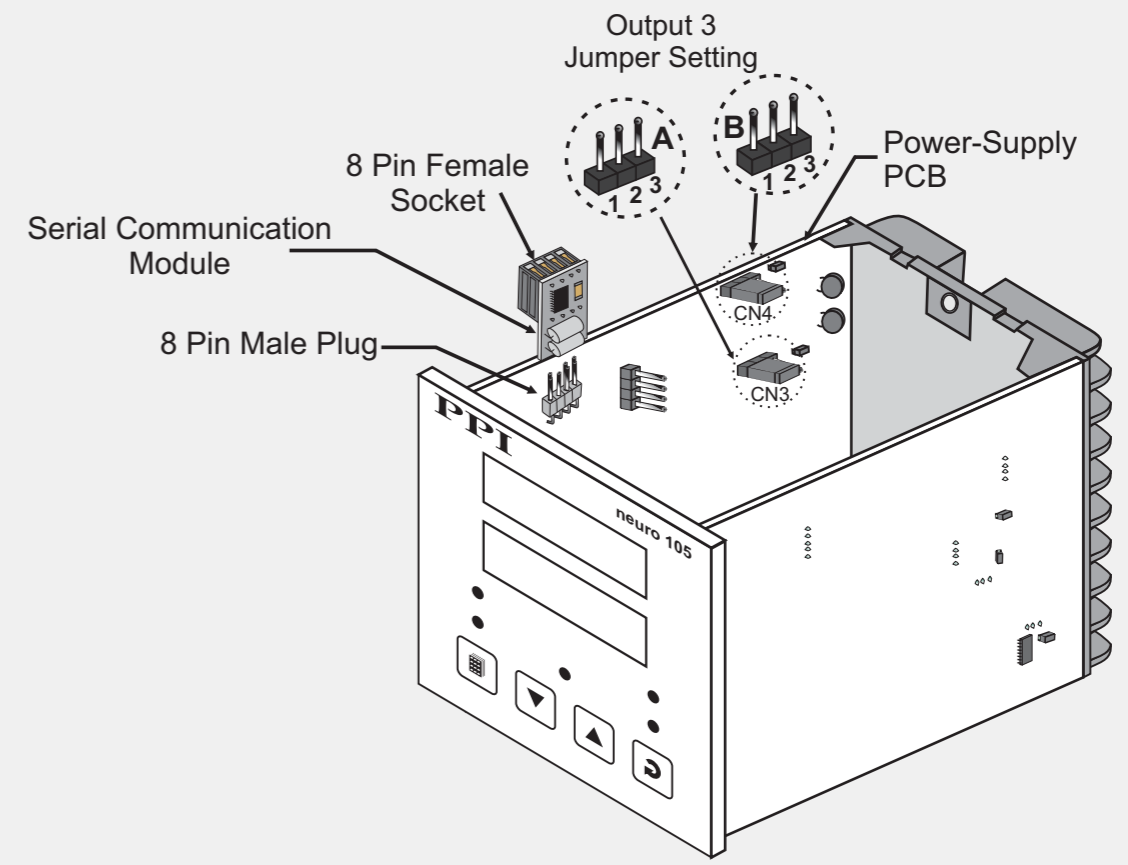
Message	PV Error Type
Or	Over-range (PV above Max. Range)
Ur	Under-range (PV below Min. Range)
OPEn	Open (Sensor open / broken)

NOTE : For Page 17 Kindly Refer the Detailed Manual on www.ppiindia.net

ELECTRICAL CONNECTIONS



SERIAL COMMUNICATION MODULE



INPUT & OUTPUT HARDWARE JUMPER SETTINGS

Input

Input Type	Jumper 'A' Setting
Thermocouple, RTD Pt100, mV & V	
DC Linear Current (mA)	

Output-1

Output Type	Jumper Setting - B	Jumper Setting - C
Relay		
SSR Drive		
DC Linear Current (or Voltage)		

Output-2

Output Type	Jumper Setting - D	Jumper Setting - E
Relay		
SSR		

Output-3

Output Type	Jumper Setting - A	Jumper Setting - B
Relay		
SSR		

