



PPI Neuro 100 EX Enhanced Universal Process Indicator User Manual

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PPI Neuro 100 EX Enhanced Universal Process Indicator



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

PARAMETERS

OPERATOR PAGE AND PARAMETERS: PAGE 0

Parameters	Settings (Default Value)
Maximum PV Hi	View Only (Default : NA)
Minimum PV Lo	View Only (Default : NA)
Reset Command rSt	no No yEs Yes (Default : No)
Reset Password COdE	0 to 250 (Default : 0)
Alarm-1 Setpoint A1SP	Throughout the range for the selected Input Type. (Default : For Process Low : -200.0 For Process High : 1376.0)
Alarm-2 Setpoint A2SP	
Alarm-3 Setpoint A3SP	
Alarm-4 Setpoint A4SP	

ALARM PARAMETERS: PAGE 10

Parameters	Settings (Default Value)
Alarm Number ALrñ	1 to 4 (Default : 1)
Alarm Type TYPE	nonE None P_Lo Process Low P_Hi Process High (Default : None)
Alarm Setpoint SP	Min. to Max. of selected input type range (Default : For Process Low : -200.0 & Process High : 1376.0)
Alarm Hysteresis HYST	<i>For DC Lin. Volts/Current</i> 1 to 30000 Counts <i>For Thermocouple/RTD</i> 1 to 3000 or 0.1 to 3000.0 (Default : 2.0)
Alarm Inhibit INHBT	no No YES Yes (Default : No)
Alarm Logic LOG	norñ Normal rEu Reverse (Default : Normal)
Alarm Latch LACH	no No YES Yes (Default : No)

RETRANSMISSION PARAMETERS: PAGE 11

Parameters	Settings (Default Value)
Recorder Output Type REC.o	0-20 0 to 20mA 4-20 4 to 20mA 0-5 0 to 5 Volts 0-10 0 to 10 Volts (Default : 0 to 20mA)
Recorder Low RECL	Min. to Max. Range specified for the selected Input Type (Default : -200.0)
Recorder High RECH	Min. to Max. Range specified for the selected Input Type (Default : 1376.0)

INPUT CONFIGURATION PARAMETERS: PAGE 12

Parameters	Settings (Default Value)
Input Type inPt	Refer Table 2 (Default : Type K)
Resolution rSLn	Refer Table 2 (Default : 1)
Units Unit	Refer Table 1 (Default : EU)
DC Range Low rLo	-19999 to 30000 (Default : 0.0)
DC Range High rHi	-19999 to 30000 (Default : 100.0)
Offset OFSt	For DC Lin. Volts/Current -19999 to 30000 Counts For Thermocouple/RTD -1999 to 3000 or -1999.9 to 3000.0 (Default : 0)
Digital Filter Filt	0.5 to 60.0 Seconds (in steps of 0.5 Seconds) (Default : 2.0 sec.)

SUPERVISORY PARAMETERS: PAGE 13

Parameters	Settings (Default Value)
Alarm SP Adjustment on Operator Page ALSP	dSbL Disable EnbL Enable (Default : Disable)
Remote Acknowledge Switch rnt	dSbL Disable EnbL Enable (Default : Disable)
Recorder rEC	dSbL Disable EnbL Enable (Default : Disable)
Process Value High-Low Monitoring HiLo	no No YES Yes (Default : No)
Password for Resetting PV High-Low COdE	0 to 250 (Default : 0)
Baud Rate bAUD	48 4800 96 9600 192 19200 384 38400 576 57600 (Default : 9.6)
Parity PAR	nonE None EvEn Even Odd Odd (Default : Even)
Serial ID Number Id	1 to 127 (Default : 1)
Serial Write Permission COñE	no No YES Yes (Default : No)

USER LINEARISATION PARAMETERS: PAGE 33

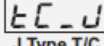
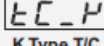
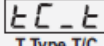
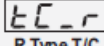
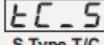
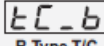
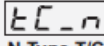
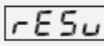
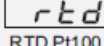
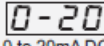
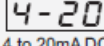
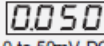
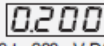
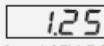
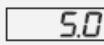
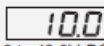
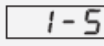
Parameters	Settings (Default Value)
User Linearization Setting Code CdE	0 to 9999 (Default : 0)
User Linearization UL in	no No YES Yes (Default : No)
Total Break Points PntS	2 to 32 (Default : 2)
Break Point Number Co.or	1 to 32 (Default : 1)
Actual Value for Break Point (X co-ord) A.Pnt	-19999 to 30000 (Default : Undefined)
Derived Value for Break Point (Y co-ord) d.Pnt	-19999 to 30000 (Default : Undefined)

TABLE- 1

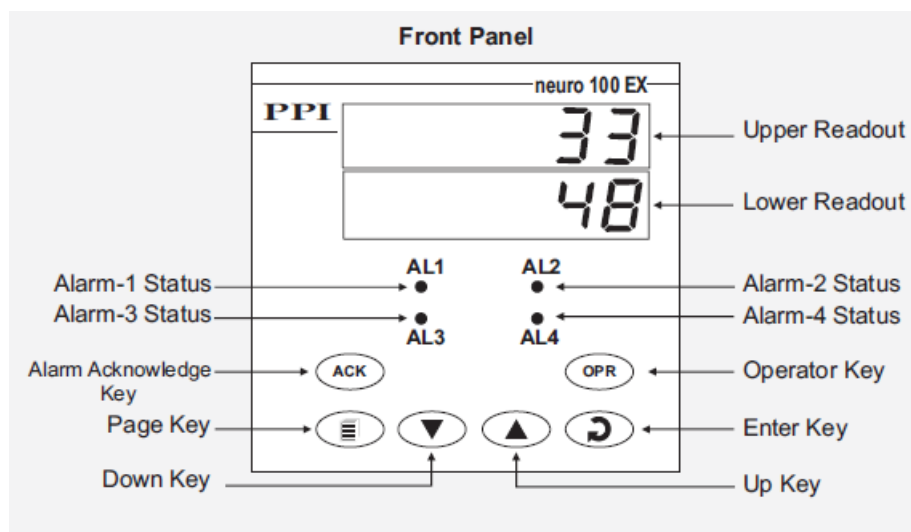
Lower Readout	Units	
°C	°C	Temperature
°F	°F	
°K	Kelvin	
EU	Engineering Units	
PERC	Percentage	
PAS	Pascals	Pressure
mPAS	Mpascals	
kPAS	Kpascals	
bAr	Bar	
mbar	Milli bar	
PSI	PSI	
KGcm	kg/sq cm	
mmWG	mm water gauge	
inWG	Inches water gauge	
mmHg	mm mercury	
Torr	Torr	
L-H	Litres per hour	Flow
L-m	Litres per minute	
Prh	% Relative Humidity	
PO2	% O2	
PCO2	% CO2	
PCP	% Carbon Potential	
volt	volts	Electricity
AMP	Amps	
mA	Milli amps	
mV	Milli Volts	
Ohm	Ohms	
PPm	Parts per million	
rPm	Revolutions per minute	

Lower Readout	Units	
m-S	Milli seconds	Time
SEC	Seconds	
m:n	Minutes	
hrS	Hours	
PH	PH	
PPH	%PH	
mPH	Miles per hour	
mG	Milli grams	Weight
GrAm	Grams	
KG	Kilo grams	
mmmm	mm (Millimeter)	Length / Height / Distance
cmmm	cm (Centimeter)	
mm	Meter	
Kmm	Kilometer	
Foot	Foot	
inch	Inch	
mile	Mile	

TABLE- 2

Option	Range (Min. to Max.)	Resolution
 J Type T/C	0 to +960°C / +32 to +1760°F	Fixed 1°C / 1°F
 K Type T/C	-200 to +1376°C / -328 to +2508°F	
 T Type T/C	-200 to +385°C / -328 to +725°F	
 R Type T/C	0 to +1770°C / +32 to +3218°F	
 S Type T/C	0 to +1765°C / +32 to +3209°F	
 B Type T/C	0 to +1825°C / +32 to +3218°F	
 N Type T/C	0 to +1300°C / +32 to +2372°F	
 Reserved for customer specific Thermocouple type not listed above.		
 RTD Pt100	-199 to +600°C / -328 to +1112°F or -199.9 to 600.0°C / -328.0 to 1112.0°F	User settable 1°C / 1°F or 0.1°C / 0.1°F
 0 to 20mADC	-19999 to +30000 units	User settable 1 / 0.1 / 0.01/ 0.001 units
 4 to 20mADC		
 0 to 50mV DC		
 0 to 200mV DC		
 0 to 1.25V DC		
 0 to 5.0V DC		
 0 to 10.0V DC		
 1 to 5.0V DC		

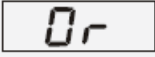
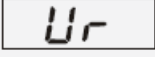
FRONT PANEL LAYOUT



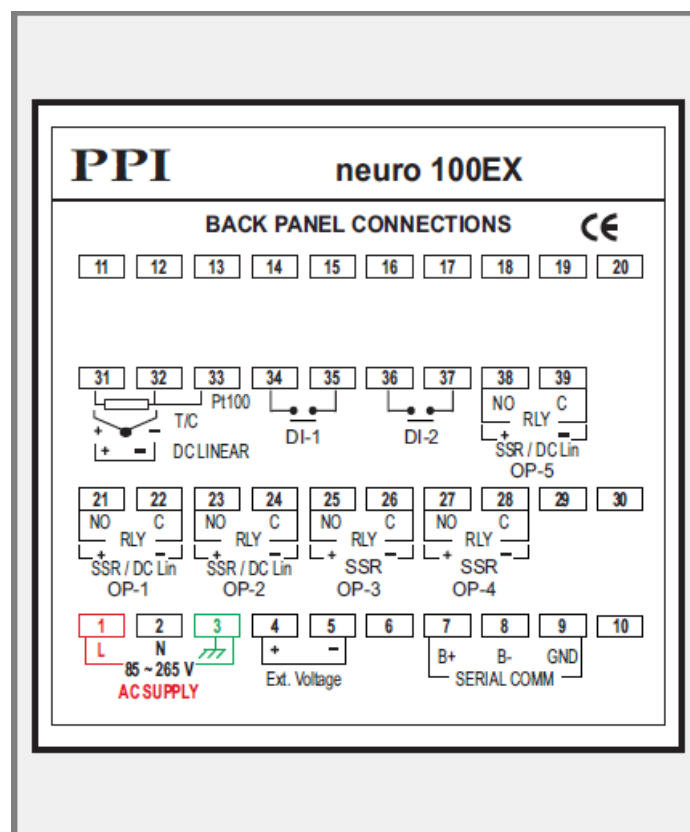
Keys Operation

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.
	ALARM ACKNOWLEDGE	Press to acknowledge any pending Alarm(s). This also turns-off the Alarm relay.
	OPERATOR PAGE	Press to access 'Operator-Page' parameters. <i>(The parameters are listed and described in section 2 : Basic Operations)</i>

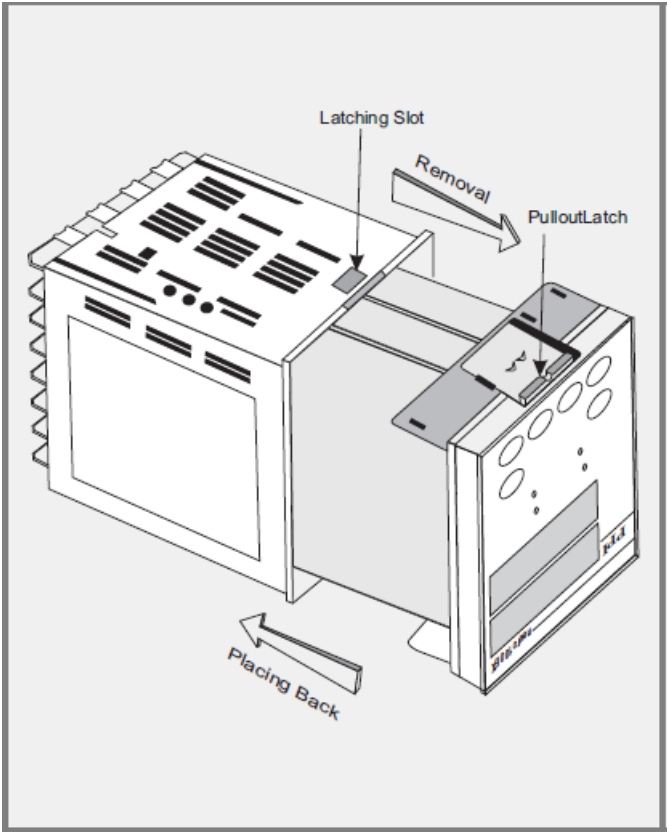
PV Error Indications

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

ELECTRICAL CONNECTIONS



ENCLOSURE ASSEMBLY



JUMPER SETTINGS

OUTPUT-2,3,4 & 5 MODULE

Relay / SSR Module

Jumper Setting 'A' - Viewed facing module

Jumper Setting-A

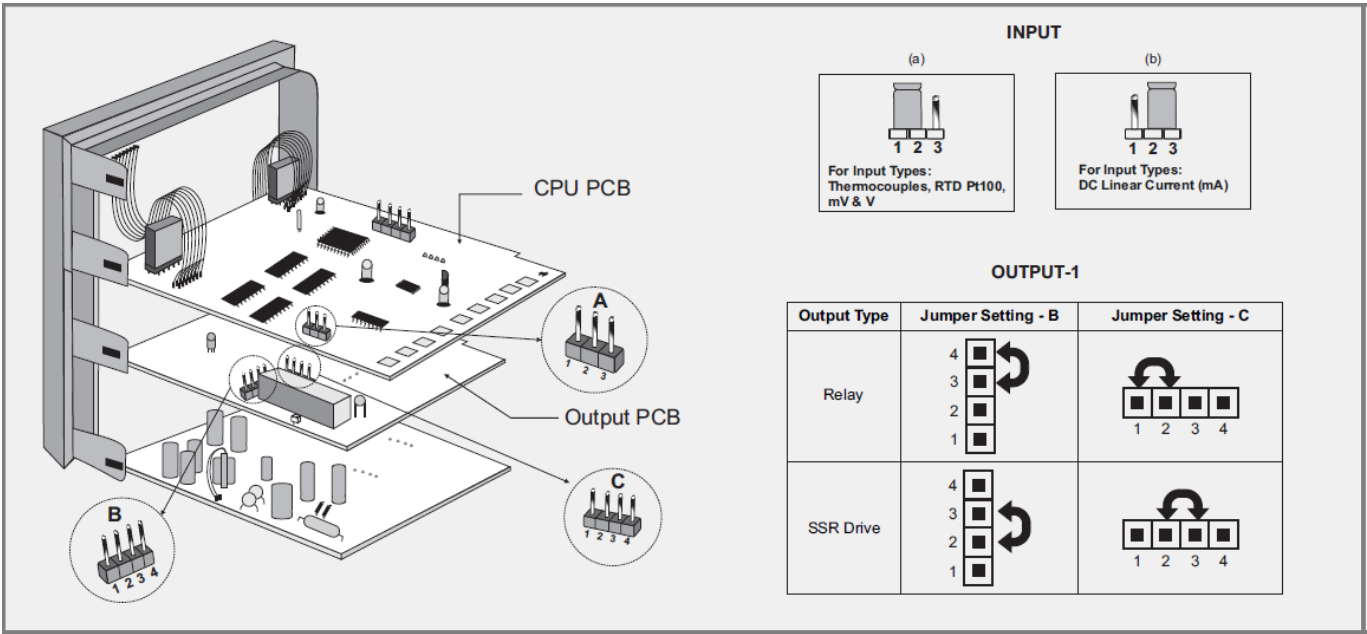
Jumper Setting 'B' - Viewed facing module

Jumper Setting-B

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

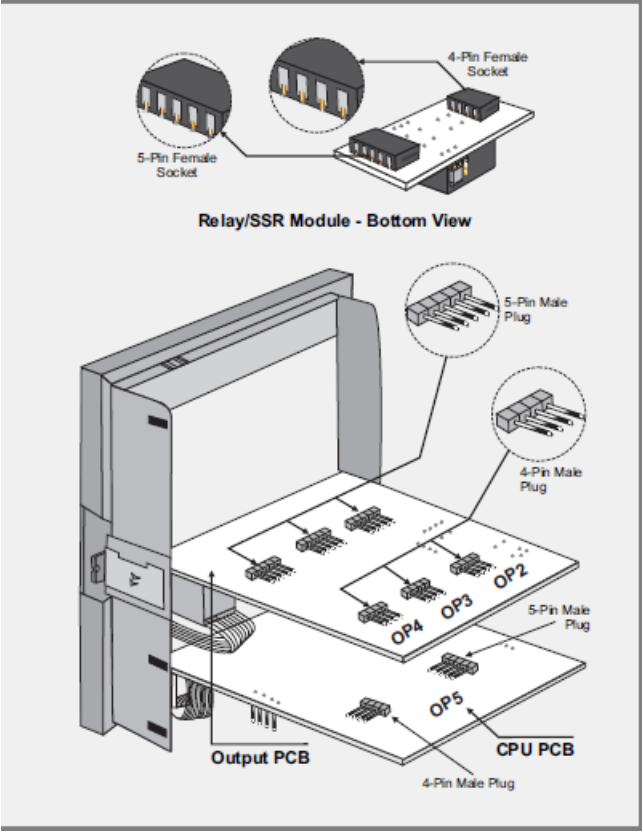
DC Voltage/Current Module

INPUT & OUTPUT-1

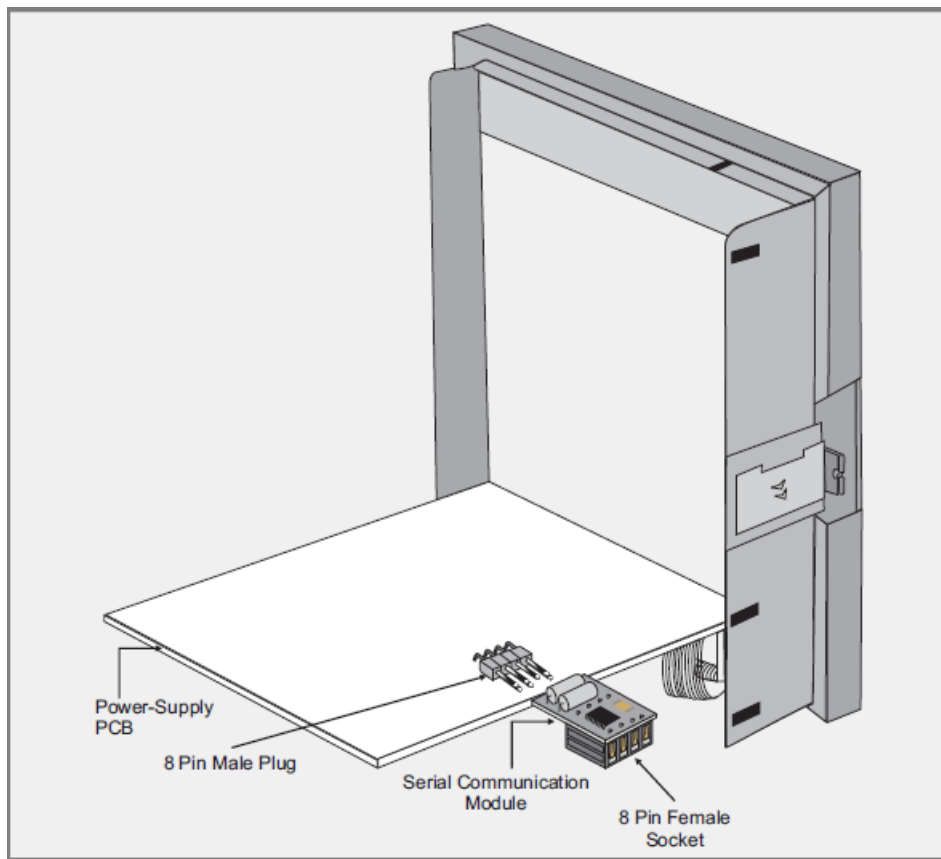


MOUNTING DETAILS

OUTPUT-2,3,4 & 5 MODULE



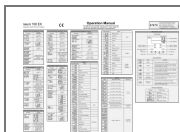
SERIAL COMM. MODULE



CONTACT

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- **Support:** 07498799226 / 08767395333
- **E:** sales@ppiindia.net,
- support@ppiindia.net

Documents / Resources



[PPI Neuro 100 EX Enhanced Universal Process Indicator](#) [pdf] User Manual
 Neuro 100 EX Enhanced Universal Process Indicator, Neuro 100 EX, Enhanced Universal Process Indicator, Universal Process Indicator, Process Indicator, Indicator

References

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