



PPI Neuro 200 Advanced Universal Process Indicator Instruction Manual

[Home](#) » [PPI](#) » PPI Neuro 200 Advanced Universal Process Indicator Instruction Manual

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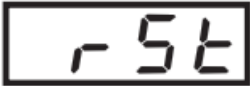
Neuro 200 Advanced Universal Process Indicator
Instruction Manual

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

Contents [[hide](#)]

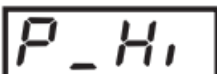
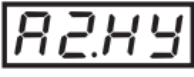
- [1 OPERATOR PAGE AND PARAMETERS](#)
- [2 FRONT PANEL LAYOUT](#)
- [3 ELECTRICAL CONNECTIONS](#)
- [4 Documents / Resources](#)
 - [4.1 References](#)
- [5 Related Posts](#)

OPERATOR PAGE AND PARAMETERS

Parameters	Settings (Default Value)
Alarm Acknowledge 	 No  Yes (Default : No)
Maximum PV 	View Only (Default : NA)
Minimum PV 	View Only (Default : NA)
Reset Command 	 No  Yes (Default : No)
Reset Password 	0 to 250 (Default : 0)
Alarm-1 Setpoint 	Min to max Range specified for the selected Input Type (Default: Min or Max Range)
Alarm-2 Setpoint 	Min to max Range specified for the selected Input Type (Default : Min or Max Range)

ALARM PARAMETERS

Parameters	Settings (Default Value)
Alarm-1 Type 	 None  Process Low  Process High (Default : None)
Alarm-1 Setpoint 	Min to max Range specified for the selected Input Type (Default : Min or Max Range)

Alarm-1 Hysteresis 	1 to 999 or 0.1 to 999.9 (Default : 2.0)
Alarm-1 Inhibit 	 No  Yes (Default : Yes)
Alarm-1 Logic 	 Normal  Reverse (Default : Normal)
Alarm Latch 	 No  Yes (Default : No)
Alarm-2 Type 	 None  Process Low  Process High (Default : None)
Alarm-2 Setpoint 	Min to max Range specified for the selected Input Type (Default : Min or Max Range)
Alarm-2 Hysteresis 	1 to 999 or 0.1 to 999.9 (Default : 2.0)
Alarm-2 Inhibit 	 No  Yes (Default : Yes)
Alarm-2 Logic 	 Normal  Reverse (Default : Normal)

Alarm Latch	no YES No Yes (Default : No)
A L L	

RE TRANSMISSION PARAMETERS

Parameters	Settings (Default Value)
Recorder Output Type	0-20 4-20 0-5 0-10 0 to 20mA 4 to 20mA 0 to 5 Volts 0 to 10 Volts (Default : 0 to 20mA)
Recorder Low	Min. to Max. Range specified for the selected Input Type (Default : -200)
Recorder High	Min. to Max. Range specified for the selected Input Type (Default : 1376)

INPUT CONFIGURATION PARAMETERS

Parameters	Settings (Default Value)
Input Type	Refer Table 2 (Default : Type K)
Units	Refer Table 1 (Default : °C)

Signal Range Low 50.Lo	<table><tr><th>Input Type</th><th>Settings</th><th>Default</th></tr><tr><td>0 to 20 mA</td><td>0.00 to Signal High</td><td>0.00</td></tr><tr><td>4 to 20 mA</td><td>4.00 to Signal High</td><td>4.00</td></tr><tr><td>Reserved</td><td>0.0 to Signal High</td><td>0.0</td></tr><tr><td>0 to 80 mV</td><td>0.00 to Signal High</td><td>0.00</td></tr><tr><td>0 to 1.25 V</td><td>0.000 to Signal High</td><td>0.000</td></tr><tr><td>0 to 5 V</td><td>0.000 to Signal High</td><td>0.000</td></tr><tr><td>0 to 10 V</td><td>0.00 to Signal High</td><td>0.00</td></tr><tr><td>1 to 5 V</td><td>1.000 to Signal High</td><td>1.000</td></tr></table>	Input Type	Settings	Default	0 to 20 mA	0.00 to Signal High	0.00	4 to 20 mA	4.00 to Signal High	4.00	Reserved	0.0 to Signal High	0.0	0 to 80 mV	0.00 to Signal High	0.00	0 to 1.25 V	0.000 to Signal High	0.000	0 to 5 V	0.000 to Signal High	0.000	0 to 10 V	0.00 to Signal High	0.00	1 to 5 V	1.000 to Signal High	1.000
	Input Type	Settings	Default																									
	0 to 20 mA	0.00 to Signal High	0.00																									
	4 to 20 mA	4.00 to Signal High	4.00																									
	Reserved	0.0 to Signal High	0.0																									
	0 to 80 mV	0.00 to Signal High	0.00																									
	0 to 1.25 V	0.000 to Signal High	0.000																									
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	0 to 10 V	0.00 to Signal High	0.00																									
1 to 5 V	1.000 to Signal High	1.000																										
<table><tr><th>Input Type</th><th>Settings</th><th>Default</th></tr><tr><td>0 to 20 mA</td><td>Signal Low to 20.00</td><td>20</td></tr><tr><td>4 to 20 mA</td><td>Signal Low to 20.00</td><td>20</td></tr><tr><td>Reserved</td><td>Signal Low to 80.00</td><td>80</td></tr><tr><td>0 to 80 mV</td><td>Signal Low to 80.00</td><td>80</td></tr><tr><td>0 to 1.25 V</td><td>Signal Low to 1.250</td><td>1.25</td></tr><tr><td>0 to 5 V</td><td>Signal Low to 5.000</td><td>5</td></tr><tr><td>0 to 10 V</td><td>Signal Low to 10.00</td><td>10</td></tr><tr><td>1 to 5 V</td><td>Signal Low to 5.000</td><td>5</td></tr></table>	Input Type	Settings	Default	0 to 20 mA	Signal Low to 20.00	20	4 to 20 mA	Signal Low to 20.00	20	Reserved	Signal Low to 80.00	80	0 to 80 mV	Signal Low to 80.00	80	0 to 1.25 V	Signal Low to 1.250	1.25	0 to 5 V	Signal Low to 5.000	5	0 to 10 V	Signal Low to 10.00	10	1 to 5 V	Signal Low to 5.000	5	
Input Type	Settings	Default																										
0 to 20 mA	Signal Low to 20.00	20																										
4 to 20 mA	Signal Low to 20.00	20																										
Reserved	Signal Low to 80.00	80																										
0 to 80 mV	Signal Low to 80.00	80																										
0 to 1.25 V	Signal Low to 1.250	1.25																										
0 to 5 V	Signal Low to 5.000	5																										
0 to 10 V	Signal Low to 10.00	10																										
1 to 5 V	Signal Low to 5.000	5																										
Resolution r5Ln	Refer Table 2 (Default : 1)																											
DC Range Low r.Lo	-1999 to 9999 (Default : 0.0)																											
DC Range High r.Hi	-1999 to 9999 (Default : 100.0)																											
Offset OFSt	-1999 to 9999 or -199.9 to 999.9 (Default : 0)																											
Filter FiLt	0.5 to 60.0 Seconds (in steps of 0.5 Seconds) (Default : 2.0 sec.)																											

SUPERVISORY PARAMETERS

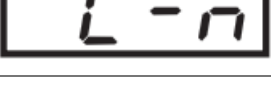
Parameters	Settings (Default Value)
Alarm SP Adjustment on Operator Page 	 Disable  Enable (Default : Disable)
Process Value High-Low Monitoring 	 No  Yes (Default : No)
Password for Resetting PV High-Low 	0 to 250 (Default : 0)
Serial ID Number 	1 to 127 (Default : 1)
Baud Rate 	 4800  9600  19200 (Default : 9.6)
Parity 	 None  Even  Odd (Default : Even)
Serial Write Permission 	 No  Yes (Default : Yes)

USER LINEARISATION PARAMETERS

Parameters	Settings (Default Value)
User Linearization Setting Code 	0 to 9999 (Default : 0)
User Linearization 	 No  Yes (Default : No)
Total Break Points 	2 to 32 (Default : 2)
Break Point Number 	1 to 32 (Default : 1)
Actual Value for Break Point (X co-ord) 	-1999 to 9999 (Default : Undefined)
Derived Value for Break Point (Y co-ord) 	-1999 to 9999 (Default : Undefined)

TABLE- 1

Lower Readout	Units	
	°C	Temperature
	°F	
	Kelvin	
	Engineering Units	
	Percentage	

	Pascals	Pressure
	Mpascals	
	Kpascals	
	Bar	
	Milli bar	
	PSI	
	kg/sq cm	
	mm water gauge	Pressure
	Inches water gauge	
	mm mercury	
	Torr	
	Litres per hour	Flow
	Litres per minute	
	% Relative Humidity	
	% O2	

	% CO2	
	% Carbon Potential	
	volts	Electricity
	Amps	
	Milli amps	
	Milli Volts	
	Ohms	
	Parts per million	
	Revolutions per minute	
	Milli seconds	Time
	Seconds	
	Minutes	
	Hours	
	PH	
	%PH	

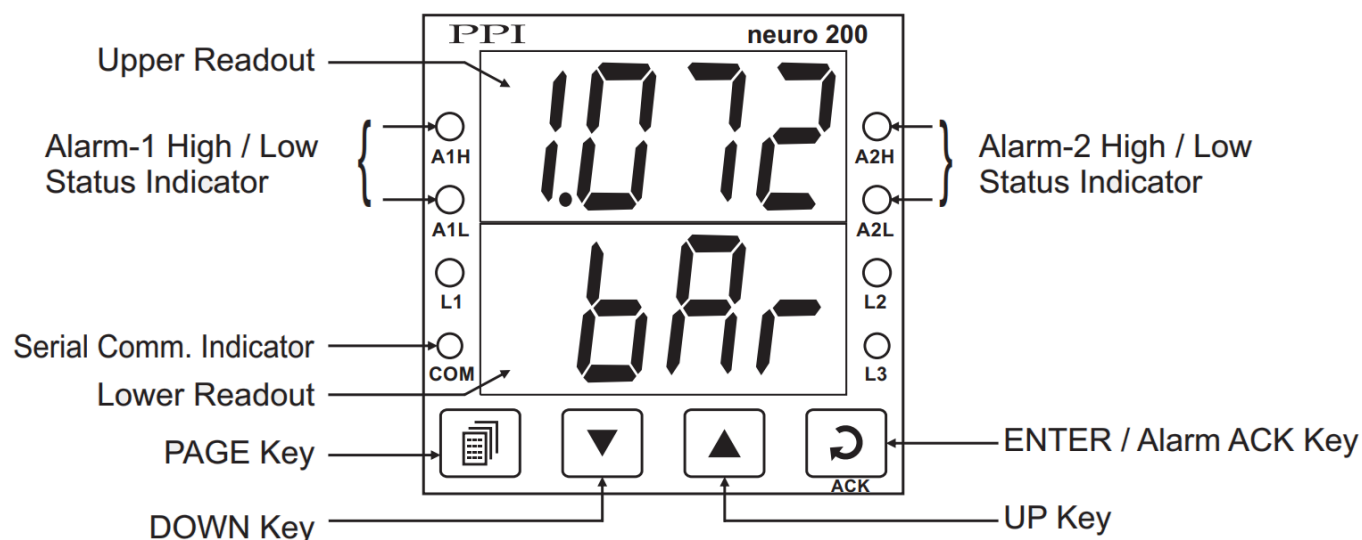
	Miles per hour	
	Milli grams	Weight
	Grams	
	Kilo grams	

Lower Readout	Units	
	mm (Millimeter)	Length/Height/Distance
	cm (Centimeter)	
	Meter	
	Kilometre	
	Foot	
	Inch	
	Mile	

Table 2

Option	What it means	Range (Min. to Max.)	Resolution
	Type J Thermocouple	0 to +960°C / +32 to +1760°F	Fixed 1°C/1°F
	Type K Thermocouple	-200 to +1376°C / -328 to +2508°F	
	Type T Thermocouple	-200 to +385°C / -328 to +725°F	
	Type R Thermocouple	0 to +1770°C / +32 to +3218°F	
	Type S Thermocouple	0 to +1765°C / +32 to +3209°F	
	Type B Thermocouple	0 to +1825°C / +32 to +3092°F	
	Type N Thermocouple	0 to +1300°C / +32 to +2372°F	
	Reserved for customer specific Thermocouple type not listed above. The type shall be specified in accordance with the ordered (optional on request) Thermocouple type.		
	3-wire, RTD Pt100	-199 to +600°C/-328 to +1112°F or -199.9 to 600.0°C/-199.9 to 999.9°F	User settable 1°C/1°F or 0.1°C/0.1°F
	0 to 20mA DC current	-1999 to +9999 units	User settable 1 / 0.1 / 0.01/ 0.001 units
	4 to 20mA DC current		
	Reserved		
	0 to 80 mV DC voltage		
	0 to 1.25V DC voltage		
	0 to 5.0V DC voltage		
	0 to 10.0V DC voltage		
	1 to 5.0V DC voltage		

FRONT PANEL LAYOUT



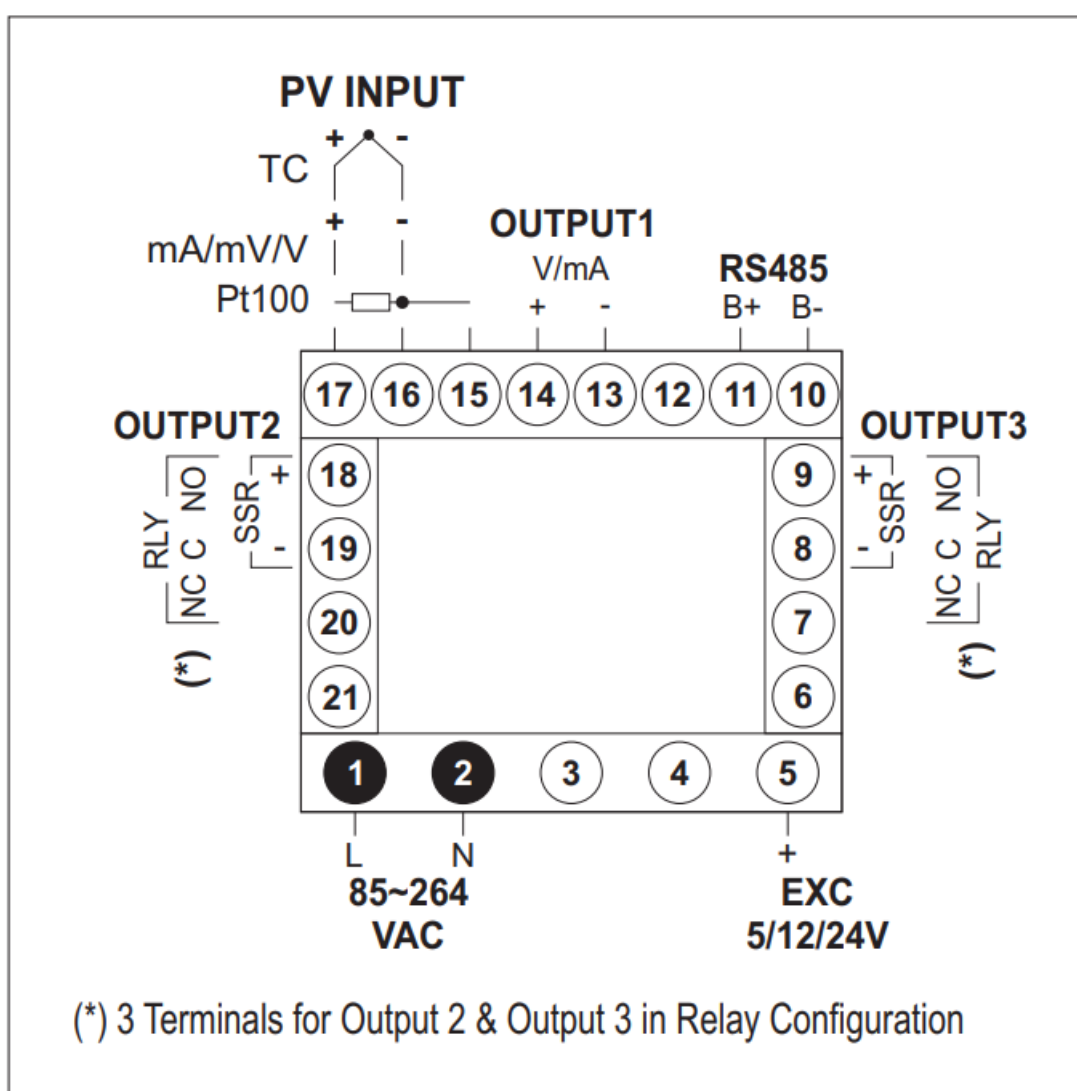
Keys Operation

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/ACK	Set up Mode: Press to store the set parameter value and to scroll to the next parameter on the PAGE. Run Mode: Press to acknowledge any pending Alarm(s). This also turns off the Alarm relay.

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



PPI

101, Diamond Industrial Estate, Navghar,
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Documents / Resources

	PPI Neuro 200 Advanced Universal Process Indicator [pdf] Instruction Manual Neuro 200 Advanced Universal Process Indicator, Neuro 200, Advanced Universal Process Indicator, Universal Process Indicator, Process Indicator, Indicator
	PPI neuro 200 Advanced Universal Process Indicator [pdf] User Manual neuro 200 Advanced Universal Process Indicator, neuro 200, Advanced Universal Process Indicator, Universal Process Indicator, Process Indicator

References

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