



PPI Neuro 100 Z Universal Process Indicator User Manual

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PPI Neuro 100 Z Universal Process Indicator



Product Information:

The Enhanced Range Universal Process Indicator is a device that displays the current process value of an input signal. It has a range of -19999 to +99999 and can be used with various input types such as DC Lin. Volts/Current, Kelvin, Percentage, Pascals Mpascals, and many more.

Parameters

Operator Page and Parameters

The Operator Page displays the current process value. The default settings for the alarm setpoints are Alarm-1 Setpoint, Alarm-2 Setpoint, Alarm-3 Setpoint, and Alarm-4 Setpoint. The default values for Process Low and Process High are -200.0 and 1376.0 respectively.

Alarm Parameters

The Alarm Parameters page allows the user to set up to four alarms. The user can choose the Alarm Type from None, Process Low, and Process High. The default value for Alarm Type is None. The user can also adjust the Alarm Hysteresis and Inhibit, as well as the Alarm Logic and Latch.

Retransmission Parameters

The Retransmission Parameters page allows the user to set up the Recorder Output Type, Recorder Low, and Recorder High. The default value for Recorder Output Type is 0 to 20mA. The user can also set the minimum and maximum counts for the Recorder Low and High.

Input Configuration Parameters

The Input Configuration Parameters page allows the user to set the Input Type, Resolution, Units, PV Range Low, PV Range High, Offset, and Digital Filter. The default Input Type is 0-20mA and the default Resolution is 0.1. The user can set the PV Range Low and High for DC Lin. Volts/Current, as well as the Digital Filter time.

Supervisory Parameters

The Supervisory Parameters page allows the user to adjust the Alarm SP Adjustment on Operator Page, Remote Acknowledge Switch, Recorder Baud Rate, Parity, Serial ID Number, and Serial Write Permission.

Front Panel Layout

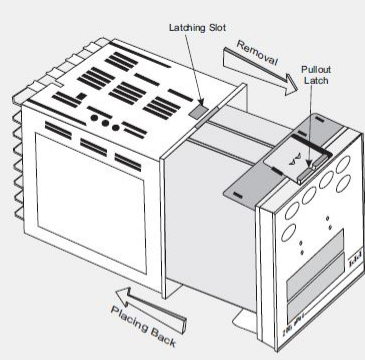
The front panel layout includes the upper and lower readouts, Alarm Status indicators, Alarm Acknowledge Key, Page Key, Enter Key, Down Key, Up Key, and Symbol Key. These keys are used to navigate through the different pages and adjust the parameters.

Product Usage Instructions:

1. Connect the input signal to the device.
2. Power on the device.
3. Use the Page Key to navigate to the desired parameter page.
4. Use the Up and Down Keys to adjust the parameter values.
5. Press Enter to confirm the parameter value.
6. Repeat steps 3-5 for all desired parameters.
7. Once all parameters are set, use the Symbol Key to exit set-up mode.
8. The current process value will be displayed on the Operator Page.
9. If an alarm is triggered, the corresponding Alarm Status indicator will light up and an audible alarm will sound.
Press the Alarm Acknowledge Key to acknowledge the alarm.

ASSEMBLY

ENCLOSURE ASSEMBLY



JUMPER SETTINGS OUTPUT-1

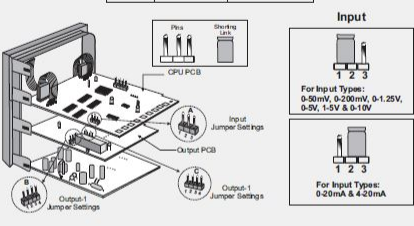
OUTPUT-1

Output Type	Jumper Setting - B	Jumper Setting - C
Relay		
SSR Drive		

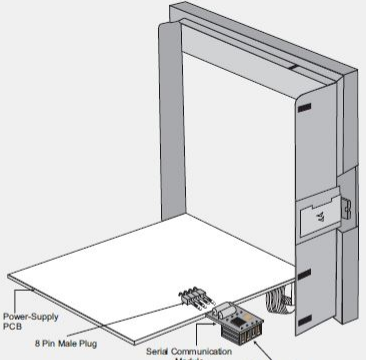
Input

For Input Types: 0-50mV, 0-200mV, 0-1.25V, 0-5V, 1-5V & 0-10V

For Input Types: 0-20mA & 4-20mA



MOUNTING DETAILS SERIAL COMM. MODULE

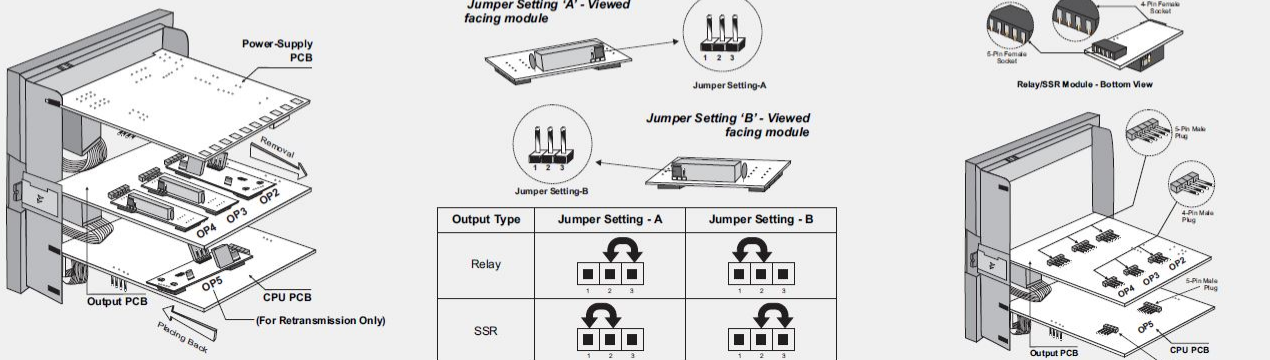






MOUNTING DETAILS OUTPUT MODULE

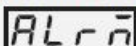
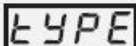





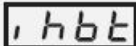


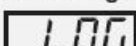

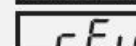


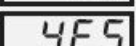
Jumper Setting 'A' - Viewed facing module

Jumper Setting 'B' - Viewed facing module

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



OPERATOR PAGE AND PARAMETERS : PAGE 0	
Parameters	Settings (Default Value)
Alarm- 1 Setpoint 	Throughout the range for the selected Input Type. (Default : For Process Low : -200.0 For Process High : 1376.0)
Alarm- 2 Setpoint 	
Alarm- 3 Setpoint 	
Alarm- 4 Setpoint 	

ALARM PARAMETERS : PAGE 10	
Parameters	Settings (Default Value)
Alarm Number 	1 to 4 (Default : 1)
Alarm Type 	 None  Process Low  Process High (Default : None)
Alarm Setpoint 	-19999 to +99999 Counts (Default : 0)
Alarm Hysteresis 	1 to +30000 Counts (Default : 2 Counts)
Alarm Inhibit 	 No  Yes (Default : No)
Alarm Logic 	 Normal  Reverse (Default : Normal)
Alarm Latch 	 No  Yes (Default : No)

RETRANSMISSION PARAMETERS : PAGE 11

Parameters	Settings (Default Value)
Recorder Output Type rEC.o	<div>0-20 0 to 20mA</div> <div>4-20 4 to 20mA</div> <div>0-5 0 to 5 Volts</div> <div>0-10 0 to 10 Volts (Default : 0 to 20mA)</div>
Recorder Low rEC.L	Min. to Max.Counts (Default : 0 Counts)
Recorder High rEC.H	Min. to Max.Counts (Default : 10000 Counts)

INPUT CONFIGURATION PARAMETERS : PAGE 12

Parameters	Settings (Default Value)
Input Type inPt	Refer Table 2 (Default : 0-20mA)
Resolution rSLn	Refer Table 2 (Default : 0.1)
Units Unit	Refer Table 1 (Default : EU)
PV Range Low rLo	-19999 to +99999 (Default : 0.0)
PV Range High rHi	-19999 to +99999 (Default : 1000.0)
Offset OFSt	For DC Lin. Volts/Current -19999 to +99999 Counts (Default : 0)
Digital Filter FILT	0.5 to 60.0 Seconds (in steps of 0.5 Seconds) (Default : 2.0 sec.)

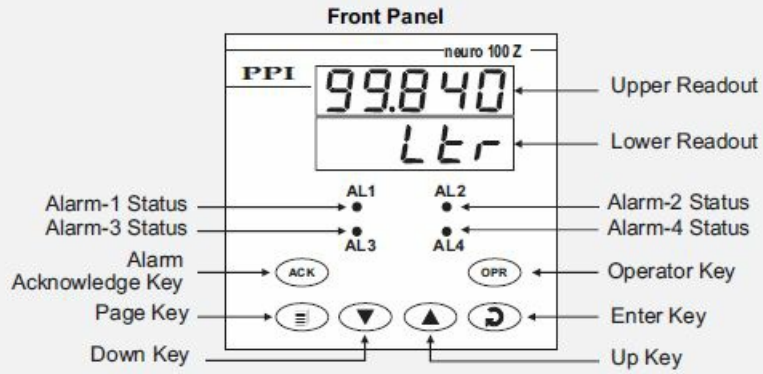
SUPERVISORY PARAMETERS : PAGE 13	
Parameters	Settings (Default Value)
Alarm SP Adjustment on Operator Page <div>ALSP</div>	<div>d5bL</div> Disable <div>EnbL</div> Enable (Default : Disable)
Remote Acknowledge Switch <div>rnt</div>	<div>d5bL</div> Disable <div>EnbL</div> Enable (Default : Disable)
Recorder <div>rec</div>	<div>d5bL</div> Disable <div>EnbL</div> Enable (Default : Disable)
Baud Rate <div>baud</div>	<div>48</div> 4800 <div>96</div> 9600 <div>192</div> 19200 <div>384</div> 38400 <div>576</div> 57600 (Default : 9.6)
Parity <div>PAR</div>	<div>nonE</div> None <div>EuEn</div> Even <div>Odd</div> Odd (Default : Even)
Serial ID Number <div>id</div>	1 to 127 (Default : 1)
Serial Write Permission <div>ConE</div>	<div>no</div> No <div>YES</div> Yes (Default : No)

TABLE- 1	
Lower Readout	Units
$^{\circ}C$	$^{\circ}C$
$^{\circ}F$	$^{\circ}F$
K	Kelvin
EU	Engineering Units
$\%$	Percentage
Pa	Pascals
MPa	Mpascals
KPa	Kpascals
bar	Bar
$mbar$	Milli bar
PSI	PSI
kg/cm^2	kg/sq cm
mmH_2O	mm water gauge
inH_2O	Inches water gauge
$mmHg$	mm mercury
$Torr$	Torr
$L-H$	Litres per hour
$L-min$	Litres per minute
$\%RH$	% Relative Humidity
$\%O_2$	% O2
$\%CO_2$	% CO2
$\%CP$	% Carbon Potential
$volt$	volts

	Amps
	Milli amps
	Milli Volts
	Ohms
	Parts per million
	Revolutions per minute
	Milli seconds
	Seconds
	Minutes
	Hours
	PH
	%PH
	Miles per hour
	Milli grams
	Grams
	Kilo grams

TABLE- 2		
Option	Range (Min. to Max.)	Resolution
 0 to 20mA DC	-19999 to +99999 units	User settable 1 / 0.1 / 0.01/ 0.001 units
 4 to 20mA DC		
 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

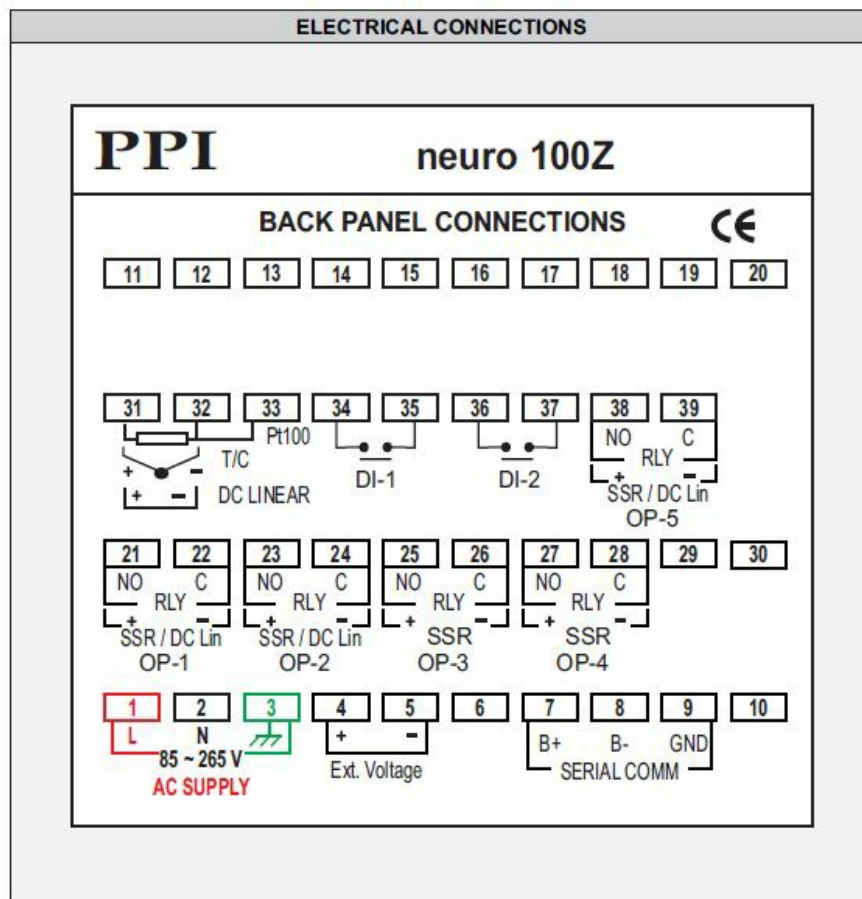


Keys Operation

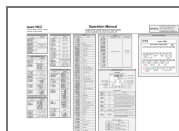
Symbol	Key	Function
	PAGE	Press to enter or exit set-up mode.
	DOWN	Press to decrease the parameter value. Pressing once decreases the value by one count; keeping pressed speeds up the change.
	UP	Press to increase the parameter value. Pressing once increases the value by one count; keeping pressed speeds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



Documents / Resources



[PPI Neuro 100 Z Universal Process Indicator](#) [pdf] User Manual

Neuro 100 Z Universal Process Indicator, Neuro 100 Z, Universal Process Indicator, Process Indicator, Indicator

References

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