



PPI neuro 202 Enhanced Universal Single Loop Process Controller User Manual

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INPUT/OUTPUT CONFIGURATION PARAMETERS : PAGE 12

Parameters

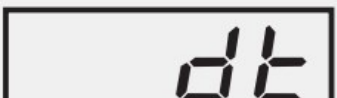


Settings (Default Value)

Control Action Ctrl		OnOffOn-Off PULSPulse PIDPID
Control Logic SPLo		(Default : Reverse) ReverseReverse DirectDirect
Setpoint Low Limit SP.Hi		Min. Range to Setpoint High for the selected Input Type (Default : -199)
Setpoint High Limit Sb.OP		Setpoint Low to Max. Range for the selected Input Type (Default : 1376)
Sensor Break Output Power % Unit		0 to 100(Default : 0)
Input Type InPt		Refer Table 1 (Default : Type K)
PV Units Unit		°C°F(Default : °C) °C°C °F°F
Signal Low SEL	Input Type Settings Default 0 to 20 mA 0.00 to Signal High 0.004 to 20 mA 4.00 to Signal High 4.00Reserved 0.0 to Signal High 0.00 to 80 mV 0.00 to Signal High 0.000 to 1.25 V 0.000 to Signal High 0.0000 to 5 V 0.000 to Signal High 0.0000 to 10 V 0.00 to Signal High 0.001 to 5 V 1.000 to Signal High 1.000	
Signal High SEL	Input Type Settings Default 0 to 20 mA Signal Low to 20.00 20.004 to 20 mA Signal Low to 20.00 20.00Reserved Signal Low to 80.00 80.000 to 80 mV Signal Low to 80.00 80.000 to 1.25 V Signal Low to 1.250 1.2500 to 5 V Signal Low to 5.000 5.0000 to 10 V Signal Low to 10.00 10.001 to 5 V Signal Low to 5.000 5.000	

PV Resolution 	Refer Table 1 (Default : 1)
PV Range Low} 	-1999 to 9999 (Default : 0)
PV Range High 	-1999 to 9999 (Default : 1000)
Offset for PV 	For DC mA/mV/V : 1 to 9999 counts For Thermocouples/RTD : 1 to 999 or 0.1 to 999.9 (Default : 0)
Digital Filter Time Constant 	0.5 to 60.0 Seconds (in steps of 0.5 Seconds) (Default : 2.0 Sec.)

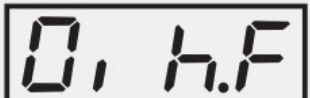
CONTROL PARAMETERS : PAGE 10

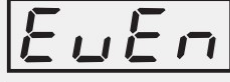
Parameters	Settings (Default Value)
Proportional Band 	1 to 9999 counts (Default : 500)
Integral Time 	0 to 3600 Seconds (Default : 100 Sec.)
Derivative Time 	0 to 600 Seconds (Default : 16 Sec.)

Cycle Time 	0.5 to 100.0 Seconds (in steps of 0.5 secs.)
Relative Cool Gain 	0.1 to 10.0 (Default : 1.0)
Cool Cycle Time 	0.5 to 100.0 Seconds (in steps of 0.5 secs.) (Default : 10.0 sec.)
Hysteresis 	1 to 9999 counts (Default : 2)
Pulse Time} 	Pulse ON Time to 120.0 Seconds (Default : 2.0 sec.)
Pulse On Tim 	0.1 to Value set for Pulse Time (Default : 1.0)
Cool Hysteresis 	1 to 9999 counts (Default : 2)
Cool Pulse Time 	Cool ON Time to 120.0 Seconds (Default : 2.0)
Cool Pulse ON Time 	0.1 to Value set for Cool Pulse Time (Default : 1.0)
Heat Power Low 	0 to Heat Power High (Default : 0)

Heat Power High 	Heat Power Low to 100 (Default : 100)
Cool Power Low 	0 to Cool Power High (Default : 0)
Cool Power High 	Cool Power Low to 100 (Default : 100)

SUPERVISORY PARAMETERS : PAGE 13

Parameters	Settings (Default Value)
Self-Tune Command 	(Default : No)  No  Yes
Overshoot Inhibi 	(Default : Disable)  Disable  Enable
Overshoot Inhibit Facto 	1.0 to 2.0 (Default : 1.0)
SP Adjustment on Lower Readout 	(Default : Enable)  Disable  Enable
SP Adjustment on Operator Page 	(Default : Enable)  Disable  Enable

Manual Mode 	(Default : Disable)  Disable  Enable
Alarm SP Adjustment on Operator Page 	(Default : Disable)  Disable  Enable
Standby Mode 	(Default : Disable)  Disable  Enable
Profile Abort Command on Page-1 	(Default : Disable)  Disable  Enable
Controller ID Number 	1 to 127 (Default : 1)
Baud Rate 	(Default : 9.6)  4800  9600  19200
Communication Parity 	(Default : Even)  None  Even  Odd

Communication Write Enable

ComE

(Default : Yes)

no

No

YES

Yes

OP1, OP2 & OP3 FUNCTION PARAMETERS : PAGE 15

Parameters

Settings (Default Value)

Output-1 Type

OP 1t

(Default : Relay)

rLy

Relay

SSr

SSR

0-20

0 - 20mA

4-20

4 - 20mA

0-5

0 - 5 V

0-10

0 - 10 V

Output-2 Function Selection

OP2.F

(Default : None)

none

None

AL-1

Alarm

EOP

End of Profile

CLon

Cool Control

Alarm-1 Logic

A 1LG

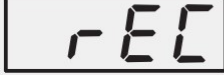
(Default : Normal)

nor $\bar{n}$

Normal

rEv

Reverse

Output-2 Type 	(Default : Relay)  Relay  SSR  0 - 20mA  4 - 20mA  0 - 5 V  0 - 10 V
OP2 Event Status 	(Default : ON)  ON  OFF
OP2 Event Time Units 	(Default : Seconds)  Seconds  Minutes  Hours
OP2 Event Time 	0 to 9999 (Default : 0)
Output-3 Function Selection 	(Default : Alarm)  None  Alarm-2  End of Profile  Recorder

Alarm-2 Logic	(Default : Normal) Normal Reverse
OP3 Event Status	(Default : ON) ON OFF
OP3 Event Time Units	(Default : Seconds) Seconds Minutes Hours
OP3 Event Time	(Default : 0) 0 to 9999
Recorder Output Typ	(Default : 0 to 20mA) 0 to 20mA 4 to 20mA 0 to 5 Volts 0 to 10 Volts

ALARM AND RETRANSMISSION (RECORDER) 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 bAnd Window Band
Alarm-1 Setpoint A 1.5P	Min. to Max. Range specified for the selected Input Type (Default : Min or Max Range)
Alarm-1 Deviation Band A 1.de	For DC mA/mV/V : -1999 to 9999 counts For Thermocouples/RTD : -999 to 999 or -1.999 to 999.9 (Default : 5)
Alarm-1 Window Band A 1.bA	For DC mA/mV/V : 3 to 9999 counts For Thermocouples/RTD : 3 to 999 or 0.3 to 999.9 (Default : 5)
Alarm-1 Hysteresis A 1.HY	For DC mA/mV/V : 1 to 9999 counts For Thermocouples/RTD : 1 to 999 or 0.1 to 999.9 (Default : 2)
Alarm-1 Inhibit A 1.ih	no No YES Yes (Default : No)

Alarm-2 Type

AL_2

none

None

P_Lo

Process
Low

P_Hi

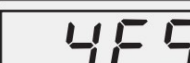
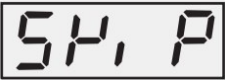
Process
High

de

Deviation
Band

bAnd

Window
Band

Parameters	Settings (Default Value)
End of Profile Acknowledge 	 No  Yes
Profile Start Command 	 No  Yes
Profile Abort Command 	 Yes
Profile Pause Command 	 No  Yes
Segment Skip Command 	No Yes(Default : No)
Segment Time Interval 	0 to 9999 Minutes
Segment Holdback Type 	None
	Up
	Down
	Both
Segment 	For DC mA/mV/V :
Band Value	1 to 9999 counts
	For Thermocouples/RTD : 1 to 999 or 0.1 to 999.9
Profile Repeat Counter 	1 to 9999

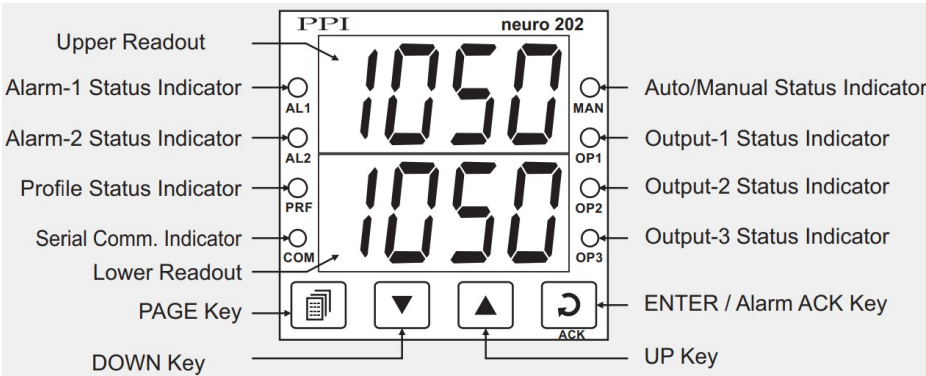
Option	What it means	Range (Min. to Max.)	Resolution
	Type J Thermocouple	0 to +960°C / +32 to +1760°F	Fixed 1°C / 1°F
	Type K Thermocouple	-200 to +1376°C / -328 to +2508°F	
	Type T Thermocouple	-200 to +385°C / -328 to +725°F	
	Type R Thermocouple	0 to +1770°C / +32 to +3218°F	
	Type S Thermocouple	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 199.9 to 600.0°C / -199.9 to 999.9°F	User settable 1°C / 1°F 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 80mV 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	
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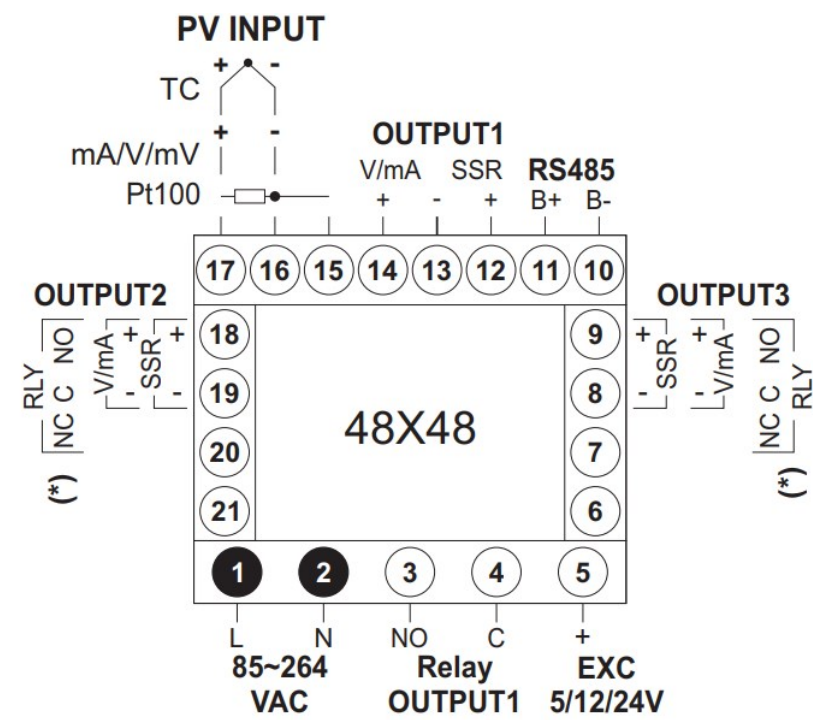
FRONT PANEL LAYOUT



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.

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

ELECTRICAL CONNECTIONS



(*) 3 Terminals for Output 2 & Output 3 in Relay Configuration

Documents / Resources

	PPI neuro 202 Enhanced Universal Single Loop Process Controller [pdf] User Manual neuro 202 Enhanced Universal Single Loop Process Controller, neuro 202, Enhanced Universal Single Loop Process Controller, Single Loop Process Controller, Loop Process Contr oller, Process Controller
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References

- [!\[\]\(76ef12e3b1058d749e4275db943f677e_img.jpg\)
Factory Automation Products India | Automation Solutions in India](#)