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Advanced
Universal Process Indicator

Operation 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

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OPERATOR PAGE AND PARAMETERS : PAGE 0	
Parameters	**Settings (Default Value)**
Alarm Acknowledge ACP	no No YES Yes (Default : No)
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 A1.SP	Min to max Range specified for the selected Input Type (Default : Min or Max Range)
Alarm-2 Setpoint A2.SP	Min to max Range specified for the selected Input Type (Default : Min or Max Range)

ALARM PARAMETERS : PAGE 10	
Parameters	**Settings (Default Value)**
Alarm-1 Type AL_1	nonE None P_Lo Process Low P_Hi Process High (Default : None)
Alarm-1 Setpoint A1.SP	Min to max Range specified for the selected Input Type (Default : Min or Max Range)
Alarm-1 Hysteresis A1.HY	1 to 999 **or** 0.1 to 999.9 (Default : 2.0)
Alarm-1 Inhibit A1.Ih	no No YES Yes (Default : Yes)
Alarm-1 Logic A1.LG	norn Normal rEv Reverse (Default : Normal)
Alarm Latch A1.Lt	no No YES Yes (Default : No)
Alarm-2 Type AL_2	nonE None P_Lo Process Low P_Hi Process High (Default : None)
Alarm-2 Setpoint A2.SP	Min to max Range specified for the selected Input Type (Default : Min or Max Range)
Alarm-2 Hysteresis A2.HY	1 to 999 **or** 0.1 to 999.9 (Default : 2.0)
Alarm-2 Inhibit A2.Ih	no No YES Yes (Default : Yes)

Parameters	**Settings (Default Value)**
Alarm-2 Logic A2.LG	norn Normal rEv Reverse (Default : Normal)
Alarm Latch A1.Lt	no No YES Yes (Default : No)

RETRANSMISSION PARAMETERS : PAGE 11	
Parameters	**Settings (Default Value)**
Recorder Output Type rECO	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 rEC.L	Min. to Max. Range specified for the selected Input Type (Default : -200)
Recorder High rEC.H	Min. to Max. Range specified for the selected Input Type (Default : 1376)

INPUT CONFIGURATION PARAMETERS : PAGE 12	
Parameters	**Settings (Default Value)**
Input Type InPt	Refer Table 2 (Default : Type K)
Units Unit	Refer Table 1 (Default : ºC)
Signal Range Low SG.Lo	
Signal Range High SG.Hi	
Resolution rSLn	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 Fi.Lt	0.5 to 60.0 Seconds (in steps of 0.5 Seconds) (Default : 2.0 sec.)

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	Signal Low to 20.00	20.00
4 to 20 mA	Signal Low to 20.00	20.00
Reserved	Signal Low to 80.00	80.00
0 to 80 mV	Signal Low to 80.00	80.00
0 to 1.25 V	Signal Low to 1.250	1.250
0 to 5 V	Signal Low to 5.000	5.000
0 to 10 V	Signal Low to 10.00	10.00
1 to 5 V	Signal Low to 5.000	5.000

SUPERVISORY PARAMETERS : PAGE 13	
Parameters	**Settings (Default Value)**
Alarm SP Adjustment on Operator Page AL.SP	dSbL Disable EnbL Enable (Default : Disable)
Process Value High-Low Monitoring Hi Lo	no No YES Yes (Default : No)
Password for Resetting PV High-Low CodE	0 to 250 (Default : 0)
Serial ID Number Id	1 to 127 (Default : 1)
Baud Rate bAUd	4.8 4800 9.6 9600 19.2 19200 (Default : 9.6)
Parity PAri	nonE None EvEn Even Odd Odd (Default : Even)
Serial Write Permission ConE	no No YES Yes (Default : Yes)

USER LINEARISATION PARAMETERS : PAGE 33	
Parameters	**Settings (Default Value)**
User Linearization Setting Code CodE	0 to 9999 (Default : 0)
User Linearization ULin	no No YES Yes (Default : No)
Total Break Points PtS	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	-1999 to 9999 (Default : Undefined)
Derived Value for Break Point (Y co-ord) d.Pnt	-1999 to 9999 (Default : Undefined)

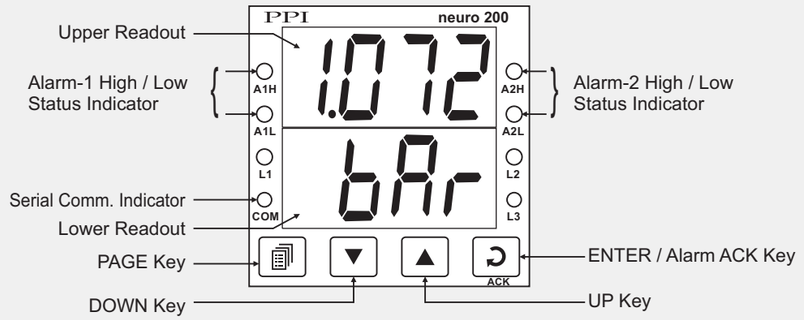
TABLE- 1		
Lower Readout	**Units**	
°C	°C	Temperature
°F	°F	
°K	Kelvin	
EU	Engineering Units	
Perc	Percentage	
PAS	Pascals	Pressure
nPAS	Mpascals	
KPAS	Kpascals	
bAr	Bar	
mbAr	Milli bar	
PSI	PSI	
Kgcm	kg/sq cm	
mmWG	mm water gauge	Pressure
inWG	Inches water gauge	
mmHG	mm mercury	
torr	Torr	
L-H	Litres per hour	Flow
L-m	Litres per minute	
Prh	% Relative Humidity	
P.O2	% O2	
P.CO2	% CO2	
P.CP	% Carbon Potential	
volt	volts	Electricity
AmP	Amps	
mA	Milli amps	
mu	Milli Volts	
Ohm	Ohms	
PPm	Parts per million	
rPm	Revolutions per pinute	
m-S	Milli seconds	Time
SEC	Seconds	
min	Minutes	
hrS	Hours	
PH	PH	
P.PH	%PH	
mPH	Miles per hour	
mG	Milli grams	Weight
GrAm	Grams	
KG	Kilo grams	

TABLE- 1		
Lower Readout	**Units**	
mmtr	mm (Millimeter)	Length / Height / Distance
cmtr	cm (Centimeter)	
mtr	Meter	
Kmtr	Kilometer	
Foot	Foot	
Inch	Inch	
miLE	Mile	

Table 2

Option	What it means	Range (Min. to Max.)	Resolution
tC_J	Type J Thermocouple	0 to +960°C / +32 to +1760°F	Fixed 1°C / 1°F
tC_K	Type K Thermocouple	-200 to +1376°C / -328 to +2508°F	
tC_t	Type T Thermocouple	-200 to +385°C / -328 to +725°F	
tC_r	Type R Thermocouple	0 to +1770°C / +32 to +3218°F	
tC_S	Type S Thermocouple	0 to +1765°C / +32 to +3209°F	
tC_b	Type B Thermocouple	0 to +1825°C / +32 to +3092°F	
tC_n	Type N Thermocouple	0 to +1300°C / +32 to +2372°F	
rESu	Reserved for customer specific Thermocouple type not listed above. The type shall be specified in accordance with the ordered (optional on request) Thermocouple type.		
rtd	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
0-20	0 to 20mA DC current	-1999 to +9999 units	User settable 1 / 0.1 / 0.01/ 0.001 units
4-20	4 to 20mA DC current		
rESu	Reserved		
0.080	0 to 80mV DC voltage		
1.25	0 to 1.25V DC voltage		
5.0	0 to 5.0V DC voltage		
10.0	0 to 10.0V DC voltage		
1-5	1 to 5.0V DC voltage		

FRONT PANEL LAYOUT



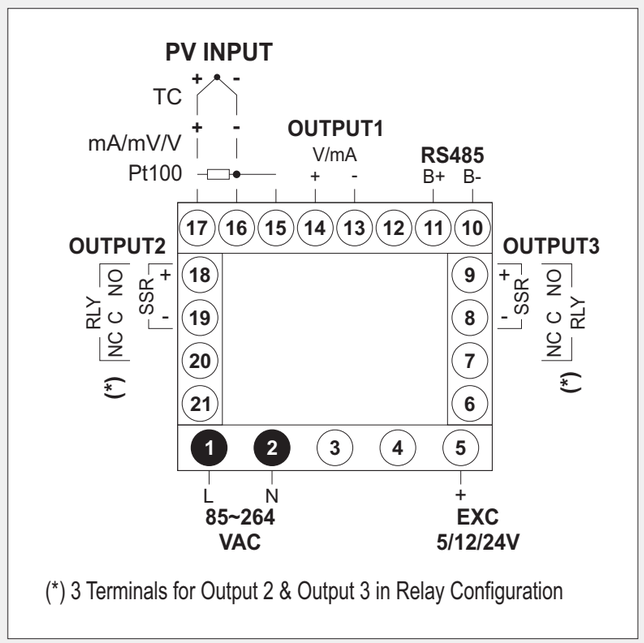
Keys Operation

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

ELECTRICAL CONNECTIONS



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