

neuro 200 / neuro 200L

Universal Input with inbuilt 24 VDC Transmitter Supply
32 Point User Defined Linearization
2 x Alarm Outputs & Retransmission Analog Output
1/16 DIN (48x48) & 1/4 DIN (96x96) Size Options

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 ALSP	Min to max Range specified for the selected Input Type (Default : Min or Max Range)
Alarm-2 Setpoint AL2SP	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 ALSP	Min to max Range specified for the selected Input Type (Default : Min or Max Range)
Alarm-1 Hysteresis ALHY	1 to 999 or 0.1 to 999.9 (Default : 2.0)
Alarm-1 Inhibit ALIH	no No YES Yes (Default : Yes)
Alarm-1 Logic ALLG	norm Normal rEu Reverse (Default : Normal)
Alarm Latch ALLE	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 AL2SP	Min to max Range specified for the selected Input Type (Default : Min or Max Range)
Alarm-2 Hysteresis AL2HY	1 to 999 or 0.1 to 999.9 (Default : 2.0)
Alarm-2 Inhibit AL2IH	no No YES Yes (Default : Yes)

Parameters	Settings (Default Value)
Alarm-2 Logic AL2LG	norm Normal rEu Reverse (Default : Normal)
Alarm Latch ALLE	no No YES Yes (Default : No)

RETRANSMISSION PARAMETERS : PAGE 11	
Parameters	Settings (Default Value)
Recorder Output Type RECOT	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)
Recorder High RECH	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 : °C)																											
Signal Range Low SLLo	<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																										
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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																										
Signal Range High SLHi	<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>20.00</td></tr><tr><td>4 to 20 mA</td><td>Signal Low to 20.00</td><td>20.00</td></tr><tr><td>Reserved</td><td>Signal Low to 80.00</td><td>80.00</td></tr><tr><td>0 to 80 mV</td><td>Signal Low to 80.00</td><td>80.00</td></tr><tr><td>0 to 1.25 V</td><td>Signal Low to 1.250</td><td>1.250</td></tr><tr><td>0 to 5 V</td><td>Signal Low to 5.000</td><td>5.000</td></tr><tr><td>0 to 10 V</td><td>Signal Low to 10.00</td><td>10.00</td></tr><tr><td>1 to 5 V</td><td>Signal Low to 5.000</td><td>5.000</td></tr></table>	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
Input Type	Settings	Default																										
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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																										
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 F.Lt	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)
Process Value High-Low Monitoring HiLo	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	48 4800 96 9600 192 19200 (Default : 9.6)
Parity PARi	none None Even Even Odd Odd (Default : Even)
Serial Write Permission ConE	no No YES Yes (Default : Yes)

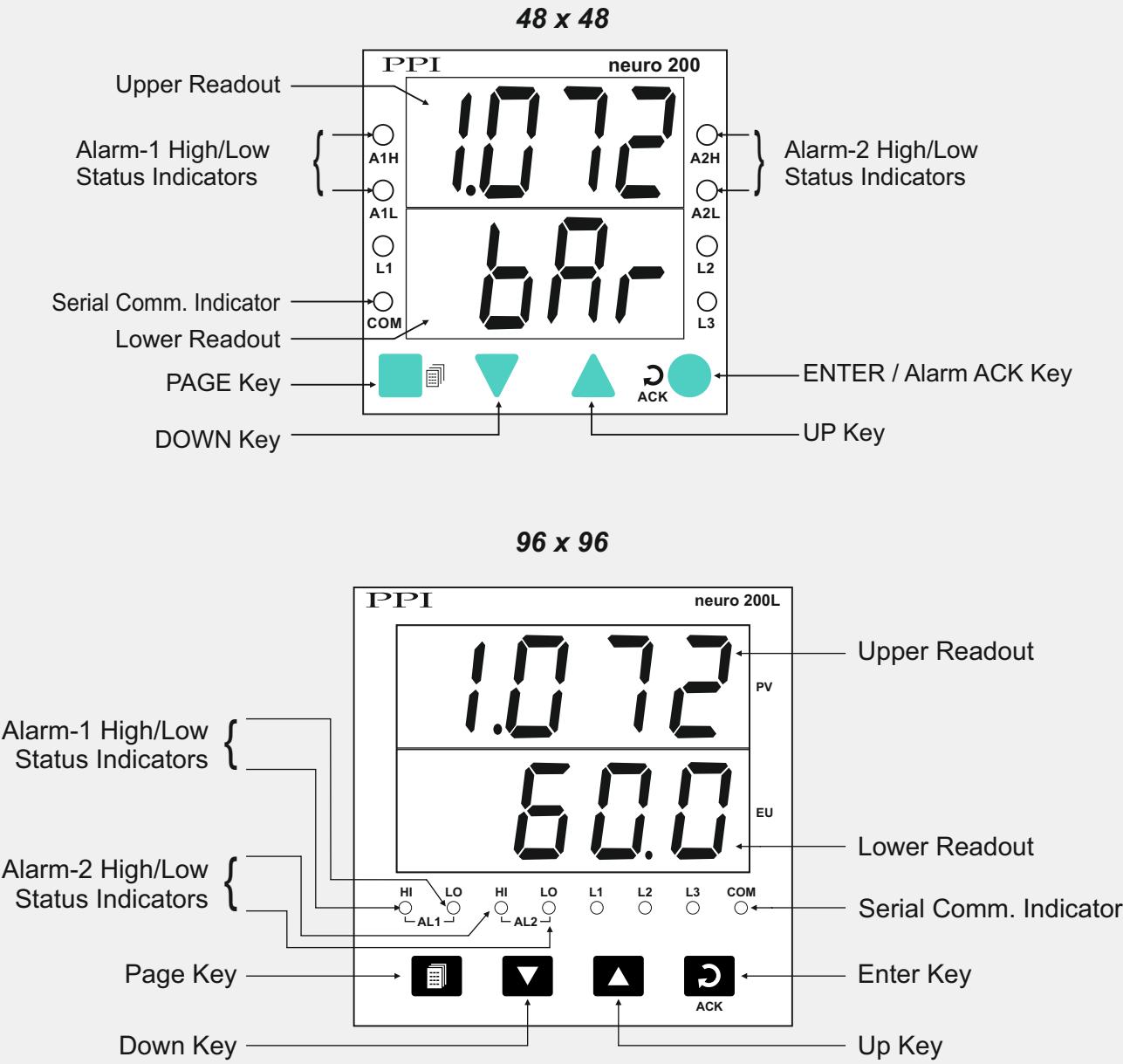
USER LINEARISATION PARAMETERS : PAGE 33	
Parameters	Settings (Default Value)
User Linearization Setting Code Code	0 to 9999 (Default : 0)
User Linearization ULi n	no No YES Yes (Default : No)
Total Break Points PntS	2 to 32 (Default : 2)
Break Point Number Co.Br	1 to 32 (Default : 1)
Actual Value for Break Point (X co-ord) APntE	-1999 to 9999 (Default : Undefined)
Derived Value for Break Point (Y co-ord) d.PntE	-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
̄PAS	Mpascals	
PPAS	Kpascals	
bAr	Bar	
̄bAr	Milli bar	
PSi	PSI	Pressure
PGc̄n	kg/sq cm	
̄n̄n̄YG	mm water gauge	
̄in̄YG	Inches water gauge	Flow
̄n̄n̄h̄G	mm mercury	
torr	Torr	
L-H	Litres per hour	
L-̄n	Litres per minute	
P.rh	% Relative Humidity	
P.O2	% O2	
PCO2	% CO2	
P.CP	% Carbon Potential	
voltE	volts	Electricity
Ān̄P	Amps	
̄n̄u	Milli amps	
̄n̄u	Milli Volts	
Oh̄n̄	Ohms	
PP̄n̄	Parts per million	
rP̄n̄	Revolutions per minute	
̄n̄-S	Milli seconds	Time
SEC	Seconds	
̄ni n	Minutes	
hrs	Hours	
PH	PH	
PPH	%PH	
̄n̄PH	Miles per hour	
̄n̄G	Milli grams	Weight
ḠrĀn̄	Grams	
PG	Kilo grams	

TABLE- 1		
Lower Readout	Units	
̄n̄n̄t̄r	mm (Millimeter)	Length / Height / Distance
c̄n̄t̄r	cm (Centimeter)	
̄n̄t̄r	Meter	
P̄n̄t̄r	Kilometer	
Foot	Foot	
inch	Inch	
̄n̄iLE	Mile	

TABLE- 2			
Option	What it means	Range (Min. to Max.)	Resolution
tC-U	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		
0080	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



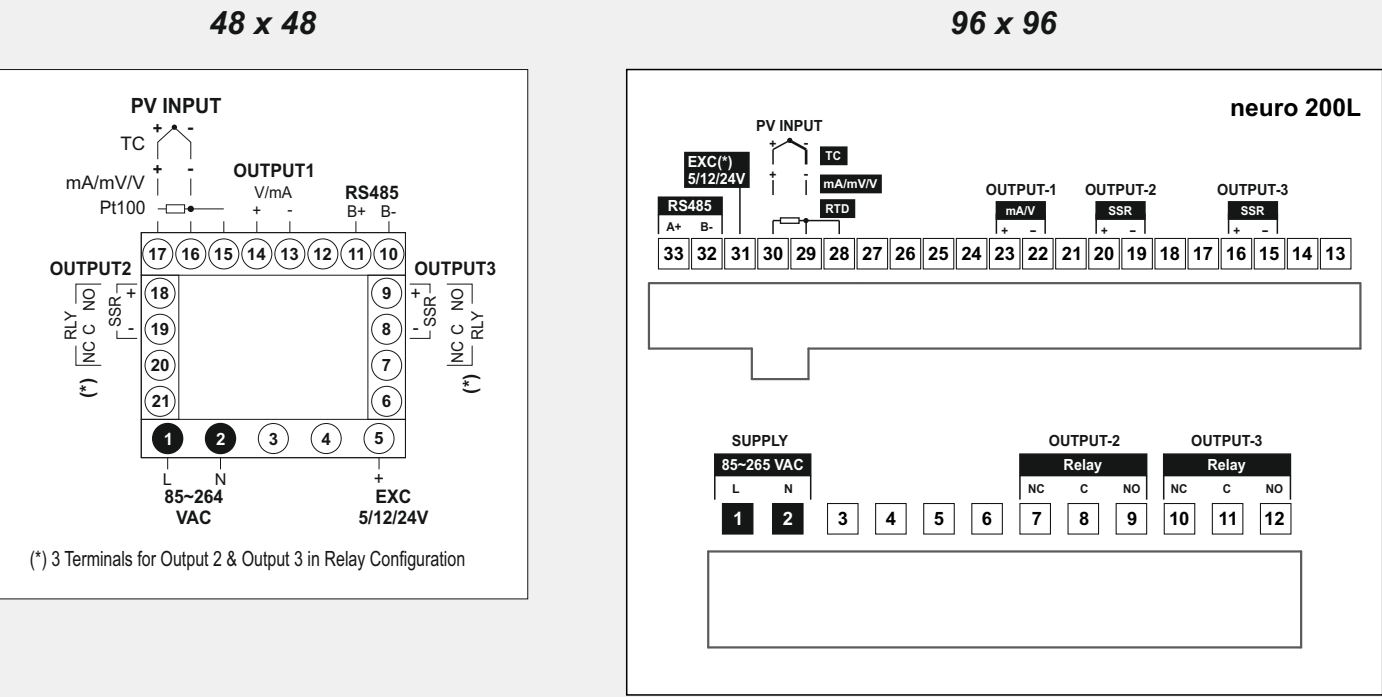
Keys Operation

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	Press to store the set parameter value and to scroll to the next parameter on the PAGE.

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



PANEL CUTOUT & RECOMMENDED MINIMUM SPACING

