

| OPERATOR PAGE AND PARAMETERS : PAGE 0 | |
|---------------------------------------|--|
| Parameters | Settings (Default Value) |
| Alarm Acknowledge ACP | <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes (Default : No) |
| Maximum PV H_i | View Only (Default : NA) |
| Minimum PV L_o | View Only (Default : NA) |
| Reset Command rSt | <input type="checkbox"/> No <input checked="" type="checkbox"/> 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 | <input type="checkbox"/> None <input checked="" type="checkbox"/> Process Low <input type="checkbox"/> 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 | <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes (Default : Yes) |
| Alarm-1 Logic ALLG | <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Reverse (Default : Normal) |
| Alarm Latch ALLT | <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes (Default : No) |
| Alarm-2 Type AL_2 | <input type="checkbox"/> None <input checked="" type="checkbox"/> Process Low <input type="checkbox"/> 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 | <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes (Default : Yes) |

| Parameters | Settings (Default Value) |
|-------------------------------|--|
| Alarm-2 Logic AL2LG | <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Reverse (Default : Normal) |
| Alarm Latch ALLT | <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes (Default : No) |

| RETRANSMISSION PARAMETERS : PAGE 11 | |
|--------------------------------------|--|
| Parameters | Settings (Default Value) |
| Recorder Output Type RECOT | <input checked="" type="checkbox"/> 0-20 0 to 20mA <input type="checkbox"/> 4-20 4 to 20mA <input type="checkbox"/> 0-5 0 to 5 Volts <input type="checkbox"/> 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 SQLo | <table border="1"> <thead> <tr> <th>Input Type</th> <th>Settings</th> <th>Default</th> </tr> </thead> <tbody> <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> </tbody> </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 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Signal Range High SQLH | <table border="1"> <thead> <tr> <th>Input Type</th> <th>Settings</th> <th>Default</th> </tr> </thead> <tbody> <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> </tbody> </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 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Resolution RESLn | Refer Table 2 (Default : 1) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DC Range Low rLo | -1999 to 9999 (Default : 0.0) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DC Range High rHi | -1999 to 9999 (Default : 100.0) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Offset OFSt | -1999 to 9999 or -199.9 to 999.9 (Default : 0) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Filter FLt | 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 | <input checked="" type="checkbox"/> Disable <input type="checkbox"/> Enable (Default : Disable) |
| Process Value High-Low Monitoring HLLo | <input type="checkbox"/> No <input checked="" type="checkbox"/> 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 | <input checked="" type="checkbox"/> 48 4800 <input type="checkbox"/> 96 9600 <input type="checkbox"/> 192 19200 (Default : 9.6) |
| Parity PARr | <input checked="" type="checkbox"/> None <input type="checkbox"/> Even <input type="checkbox"/> Odd (Default : Even) |
| Serial Write Permission CoNE | <input type="checkbox"/> No <input checked="" type="checkbox"/> 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 | <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes (Default : No) |
| Total Break Points PntS | 2 to 32 (Default : 2) |
| Break Point Number CoDr | 1 to 32 (Default : 1) |
| Actual Value for Break Point (X co-ord) APnt | -1999 to 9999 (Default : Undefined) |
| Derived Value for Break Point (Y co-ord) dPnt | -1999 to 9999 (Default : Undefined) |

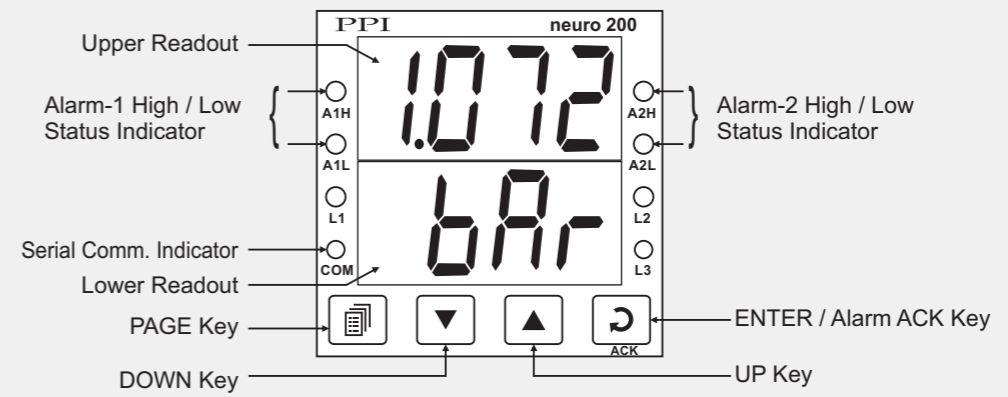
| TABLE - 1 | | |
|---------------|------------------------|-------------|
| Lower Readout | Units | |
| °C | °C | Temperature |
| °F | °F | |
| °K | Kelvin | |
| EU | Engineering Units | |
| PERC | Percentage | Pressure |
| PA5 | Pascals | |
| nPA5 | Mpascals | |
| KPA5 | Kpascals | |
| BARr | Bar | |
| nBARr | Milli bar | |
| PSi | PSI | Pressure |
| KGcm | kg/sq cm | |
| mmWG | mm water gauge | |
| inWG | Inches water gauge | |
| mmHg | mm mercury | Flow |
| Torr | Torr | |
| L-H | Litres per hour | Flow |
| L-m | Litres per minute | |
| Prh | % Relative Humidity | |
| PO2 | % O2 | |
| PCO2 | % CO2 | |
| PCP | % Carbon Potential | |
| volts | volts | Electricity |
| ANP | Amps | |
| nA | Milli amps | |
| nV | Milli Volts | |
| Ohm | Ohms | Time |
| PPm | Parts per million | |
| rPm | Revolutions per pinute | |
| n-S | Milli seconds | |
| SEC | Seconds | Time |
| min | Minutes | |
| hrS | Hours | |
| PH | PH | |
| PPH | %PH | Weight |
| nPH | Miles per hour | |
| nG | Milli grams | |
| GrAn | Grams | |
| KG | Kilo grams | |

| TABLE - 1 | | |
|---------------|-----------------|----------------------------|
| Lower Readout | Units | |
| mm | mm (Millimeter) | Length / Height / Distance |
| cm | cm (Centimeter) | |
| m | Meter | |
| Km | 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 | | |
| 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 / 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

