UNIVERSAL PROGRAMMABLE PROCESS INDICATOR



Features

- Microprocessor based controller, linearised for PT100 sensor & 3 thermocouples (J,K,R) and 4-20mA with Auto cold junction compensation
- Input for 4-20mA programmable from Tx for Pressure, Humidity, pH, Temperature etc.
- Span, Zero and resolution user programmable for 4-20mA input
- Large 4" height bright Red LED Displays for long distance viewing
- Offset digitally programmable from front
- Configuration lockable by jumper on terminals
- Non-volatile memory to save settings
- Aesthetically designed front panel

Specifications

• Display : 4 digit 4" 7 segment Red LED display for Process Values

Sensor : J,K,R T/C, 3 wire PT100 and 4-20mA

Range : J T/C: 0 to 750°C K T/C: 0 to 1250°C

R T/C: 0 to 1700°C PT100: -100.0 to +600.0°C

Accuracy : ±0.1% of Full Scale ± 1 digit

Resolution : Settable 0.000 to 0000 for 4-20mA input

1°C for thermocouples, 0.1°C for PT100

• Offset Band : Settable from -25.0°C to +25.0°C

• Exciter Voltage : 24V @ 30mA for loop Tx

Memory : Non-volatile EEPROM to save settings

• Configuration Lock : Open lock terminals to lock the Sensor type

• Supply : 220V AC ± 15% @ 50/60Hz

Dimensions : 395mm x 119mm x 158mm

Mounting : Wall Mounting

COUNTRONICS, New Delhi

Terminal Connections

- Connect the sensor to the terminal strip as per the markings on the strip.
- For thermocouples, connect the Positive and Negative of the sensor the '+' and '-' on left and right of 'T/C'
- For 2 wire PT100 sensors, short the two terminals (+T/C and 3rd Wire of PT100) as shown on the label and then connect the 2 wires to the 'TC+' and 'TC-' terminals.
- For 3 wire PT100 sensors, connect the same colored wires to the terminals(+T/C and 3rd Wire of PT100) shown short and then connect the third wire to the terminal marked '-'.
- For 4-20mA input, short the inputs as shown on the label ("Short for 4-20mA" and +TC) and connect the 4-20mA input to the +TC and -TC terminals.

Directions for Usage

➤ Short the terminals marked as 'Lock'. This will allow changes in the sensor selection.

Setting the Offset (Zero)

- Press the Mode Switch.
- The display shows "Zero". Press the Enter ← switch.
- The display now shows the value of Offset. This represents the offset adjustment in the displayed value.
- Use the Increment \triangle and Decrement ∇ switches to make changes. The range is from -250 to 250.
- After changes have been made, press the Enter switch to save changes and return to the display of "Zero". Now press Increment Switch. If 4-20mA input has been selected, the Display shows "Hi" else is shows "Sens".

Setting the Full Scale (20mA)

- If 4-20mA input has been selected, the display shows "HI". Press the Enter ← switch.
- The display now shows the value of Hi. This represents the value to be displayed when an input of 20mA is given.
- Use the Increment \triangle and Decrement ∇ switches to make changes. The range is from -1999 to 9999.
- After changes have been made, press the Enter switch to save changes and return to the display of "HI". Now press the Increment switch. The display shows "Lo".

Setting the Starting Scale (4mA)

- The display shows "Lo". Press the Enter ← switch.
- The display now shows the value of Lo. This represents the value to be displayed when an input of 4mA is given.
- Use the Increment \triangle and Decrement ∇ switches to make changes. The range is from -1999 to 9999.
- After changes have been made, press the Enter switch to save changes and return to the display of "Lo". Now press the Increment switch. The display shows "dec".

 Setting the resolution (decimal) The display shows "dec". Press the Enter switch. The display now shows 0000 with the decimal point as per previous setting. This represents the resolution or decimal placement in the displayed value. Use the Increment and Decrement switches to make changes. The options are 0000, 000.0, 00.00 or 0.000 After changes have been made, press the Enter switch to save changes and return to the display of "dec". Now press the Increment switch. The display shows "Sens".
 Sensor Selection (Sens) To change the sensor input, the lock terminals must be shorted. Press the Enter switch The current selected sensor is displayed. TH-J (J Thermocouple), TH-K (K Thermcouple), TH-r (R Thermocouple) or PT10 (PT100 RTD sensor) or 4-20 (4-20mA) Use the Increment and Decrement switches to make changes. After changes have been made, press the ENTER key to return to the 'SENS' display. Press Mode switch to return to normal display