Universal Temperature Indicator

Features

- Microprocessor based controller, linearised for PT100 sensor & 3 thermocouples (J,K,R) with Auto cold junction compensation
- 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 Temperature
- Sensor   : J,K,R & 3 wire PT100
- 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
- Offset Band   : Settable from -25.0°C to +25.0°C
- 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
- Weight   : 2 Kg

Manufactured By: **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 as shown on the label and then connect the 2 wires to the '+' and '-' terminals.
- For 3 wire PT100 sensors, connect the same colored wires to the terminals shown short and then connect the third wire to the terminal marked '-'.

Directions for Usage

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

Offset Setting

- If the displayed temperature after connecting the sensor does not match the required reading, then the offset can be adjusted using this setting.
- Press the Mode switch.
- The display shows "Zero". Press the ENTER key.
- The current set offset is displayed.
- Use the Increment and Decrement switches to make changes. The range is from -25 to +25
- The offset adjusted adds to the already displayed reading.
- After changes have been made, press the ENTER key to return to the 'Zero' display.
- Press Mode switch to return to normal display

Sensor Selection

- To change the sensor input, the lock terminals must be shorted.
- Press the Mode switch.
- The display shows "Zero". Press the Increment or Decrement key. The display shows "SENS". Press the ENTER key.
- The current selected sensor is displayed.
- TH-J (J Thermocouple), TH-K (K Thermcouple), TH-r (R Thermocouple) or PT10 (PT100 RTD sensor)
- 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