



- **3 1/2 Digit 7 Segment LED Display**
- **Accepts Pt100**
- **THREE wire lead length compensation for RTD Inputs**
- **Power supply -40V to -58V DC**
- **Rugged in construction**

### **APPLICATION**

The 3 1/2 digit process Indicating Controller is useful in the telecom Industries to control, monitor and display the temperature parameters in the shelter

### **DESCRIPTION**

The input may be in the form resistance directly from transducers. The process value is displayed on a 3<sub>1/2</sub> digit, 7 segments LED display. Control is provided in the form of two relays, one for alarm and other for trip. The set points controlling these relays are adjustable by means of two trim pots accessible from the front panel of the instrument. The relays are normally energized to ensure failsafe operation of the instrument. 3 wire lead resistor is provided for RTD inputs. Two LEDs are provided to serve as an indication of the status of the relays. The instrument detects an input sensor open condition, which is displayed by flashing Alarm LED. Two push buttons are provided on the front panel for reading/setting of set point values. Zero and Span adjustments are available for calibration

## **CALIBRATION**

- a. Connect DC calibrator to the approximate input terminals
- b. Set the input at 10% of total span and adjust zero trim pot to read the specified output value
- c. Now set the input at 90% of span and adjust span trim pot to read the specified output value
- d. Repeat steps b & c for better accuracy

## **MOUNTING**

Wall Mounting with appropriate screws

## **SPECIFICATIONS**

### **INPUTS**

Number of channels	:	Single Channel with or without settable alarms
Input Type	:	pt-100, 3-Wire
Input Range	:	0-199.9°C

### **OUTPUTS**

Set Point	:	Two; One for High & another for Low
Contact	:	One Change over contact per set point.
Contact Rating	:	5A/250 V AC Resistive

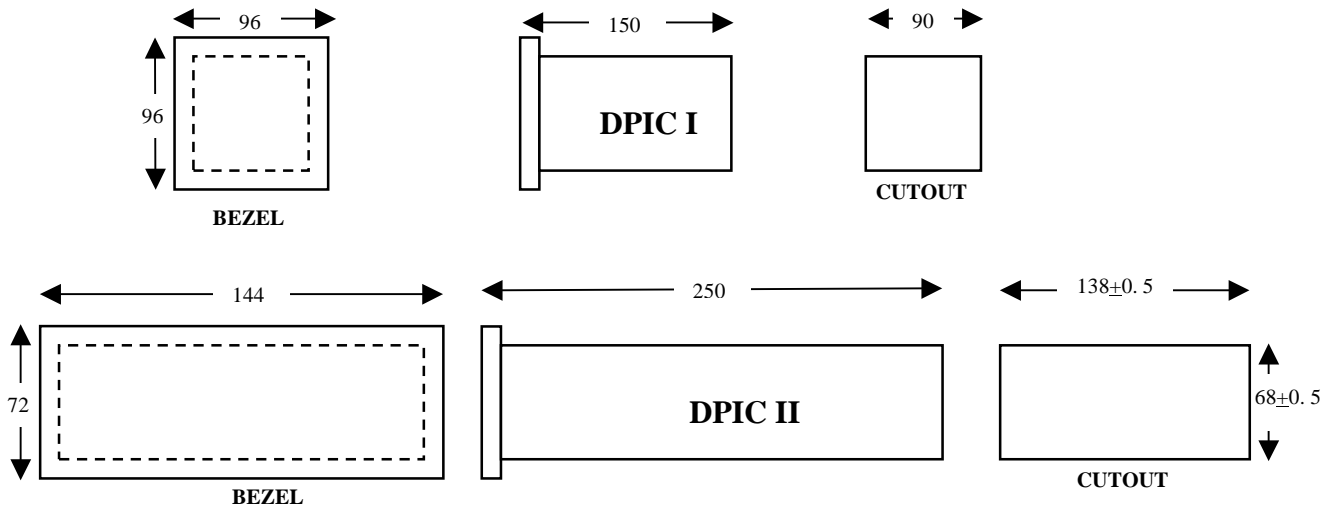
### **ACCURACY**

Accuracy	:	± 0.5% FS ± 1 Count
Alarm Accuracy	:	±1% FS ± 1 Digit
Hysterisis	:	± 1.5% FS ± 1 Digit

### **DISPLAY**

Type	:	3 ½ Digit, 7-Seg 12.5mm Height, Red Bright LEDs
Set Point Display	:	Can be observed by push of botton provided on the front of the instrument.
Response Time	:	250 ms, Typical
Set Point Adjustment	:	Through Two Trim pots provided on the front panel.
Sensor Break Indication	:	By Flashing of Alarm LED
Power Supply	:	-48 V DC Typical -40 V to -58 V DC
Power Consumption	:	4V A Typical 6 V A Max
Ambient Temperature Range	:	0-50°C
Humidity	:	Upto 90% RH Non-Condensing

Bezel Size : 96 X 96mm  
 Enclosure : 16 SWG MS, Fabricated, Powder coated in siemens gray Colour  
 Mounting : Wall Mounting with appropriate screws  
 Connector : a. 3 Pin Retractable Phoenix Connector for Sensor  
               b. 2 Pin Retractable Phoenix Connector for Power  
               c. 6 Pin Retractable Phoenix connector for Relay outputs



**MANUFACTURED BY:**  
**TELE THERM INSTRUMENT CO (P) LTD**  
 Vision Tower, Plot No:15/16/17 Yogam Garden  
 Brindavan Nagar, Valasaravakkam, Chennai-600 087  
 Ph: 91-044-24867891/24867335  
 Fax : 091-044-24867332  
 E-mail : [teltherm@vsnl.com](mailto:teltherm@vsnl.com)  
[www.teletherm.com](http://www.teletherm.com)