

**General Specifications**

- $\mu$ P based, digital temperature controller with a single output
- Sensor: T/C, Fe-Const, J Type
- ON-OFF Control form
- Adjustable Hysteresis Value
- Adjustable Upper Limit for SET Value
- Displays SET and Process Values
- Cold-junction compensation for T/C
- Excellent linearity with  $^{\circ}\text{C}/\text{mV}$  look up table
- High accuracy
- EEPROM memory to store settings
- Dimensions: for DT-48E 48x48mm, for DT-36E 36x78mm
- Easy connection with plug-in connectors

**Technical Specifications**

- Panel Hole Sizes : for DT-48E 46x46mm, for DT-36E 29x71mm
- Display : 1x3 Digit 7 Segment display
- Measuring Scale :  $0^{\circ}\text{C} \dots 600^{\circ}\text{C}$
- SET Invertal :  $0^{\circ}\text{C} \dots 600^{\circ}\text{C}$  (limited with Up.L value)
- Hysteresis Interval :  $0^{\circ}\text{C} \dots 50^{\circ}\text{C}$
- Sensor : Fe-Const, J type T/C
- Resolution :  $\pm 1^{\circ}\text{C}$
- Accuracy :  $\pm \%0.3$  (Over full scale)
- Control Form : ON-OFF
- Out : Relay (NO + NC), 250VAC, 2A, Resistive Load
- Supply Voltage : 100...240VAC, 50/60 Hz
- Power Cons. :  $< 6\text{VA}$
- Line Comp. :  $0^{\circ}\text{C} \dots 50^{\circ}\text{C}$
- Operating Temp. :  $-20^{\circ}\text{C} \dots 55^{\circ}\text{C}$
- Altitude :  $< 2000\text{m}$
- Failure : Out is OFF in case of sensor failure, measurement out of range or hardware fails to measure input signal.

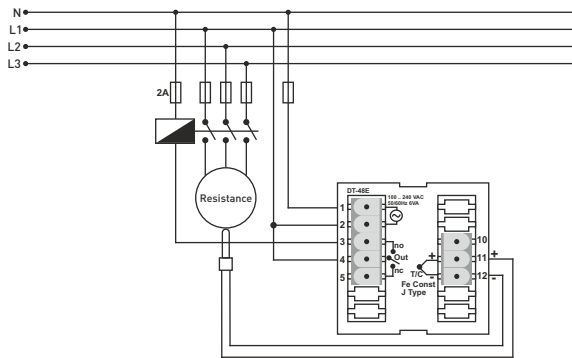
**Error Message**

- or : Displays "or" message in case of sensor failure, measurement out of range or hardware fails to measure input signal

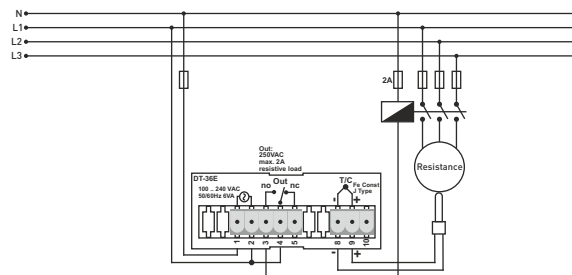
**Warning:**

- Use shielded and twisted signal cables and connect shield to ground on device side. Use correct compensation cables for T/C sensors. Correct T/C cable directly to the device connectors. Keep all signal cables away from circuit breakers, devices/cables emitting electrical noise and power cables.
- Take precautions against environmental conditions like humidity, vibration, pollution and high/low temperature during installation.
- Use a fuse (slow 250mA 250VAC) on supply input of the device. Use appropriate cables for supply connections. Apply safety regulations during installation.

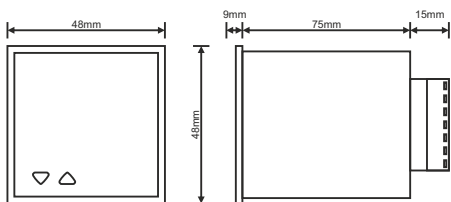
**Connection (for DT-48E):**



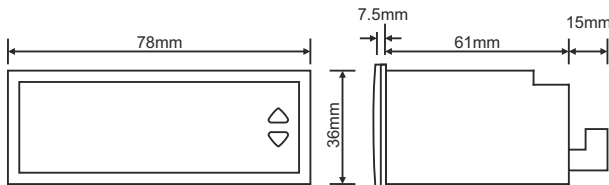
**Connection (for DT-36E):**



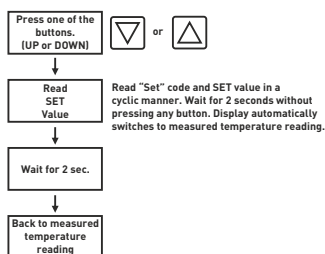
**Dimensions (for DT-48E) :**



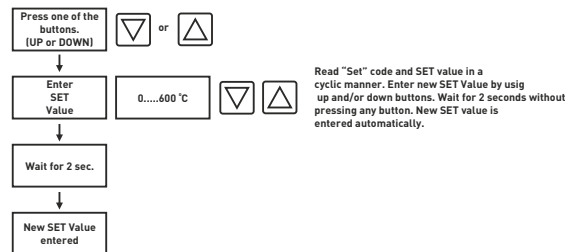
**Dimensions (for DT-36E) :**



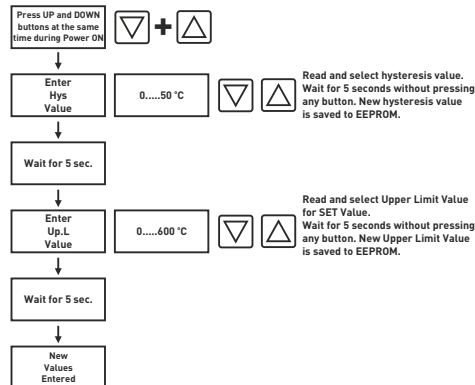
**Reading SET Value:**



**Adjusting SET Value:**



**Adjusting Hysteresis and Upper Limit Values**



**OUT; Control Form (ON-OFF):**

