

General Specifications

- μ 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-96E 96x96mm, for DT-72E 72x72mm
- Easy connection with plug-in connectors

Technical Specifications

- Panel Hole Sizes : for DT-96E 90x90mm, for DT-72E 70x70mm
- Display : 1x3 Digit 7 Segment display
- Measuring Scale : 0 $^{\circ}\text{C}$600 $^{\circ}\text{C}$
- SET Invertal : 0 $^{\circ}\text{C}$600 $^{\circ}\text{C}$ (limited with Up.L value)
- Hysteresis Interval : 0 $^{\circ}\text{C}$50 $^{\circ}\text{C}$
- Sensor : Fe-Const, J type T/C
- Resolution : ± 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. : < 6VA
- Line Comp. : 0 $^{\circ}\text{C}$50 $^{\circ}\text{C}$
- Operating Temp. : -20 $^{\circ}\text{C}$55 $^{\circ}\text{C}$
- Altitude : < 2000m
- Failure : Out is OFF in case of sensor failure, measurement out of range or hardware fails to measure input signal.

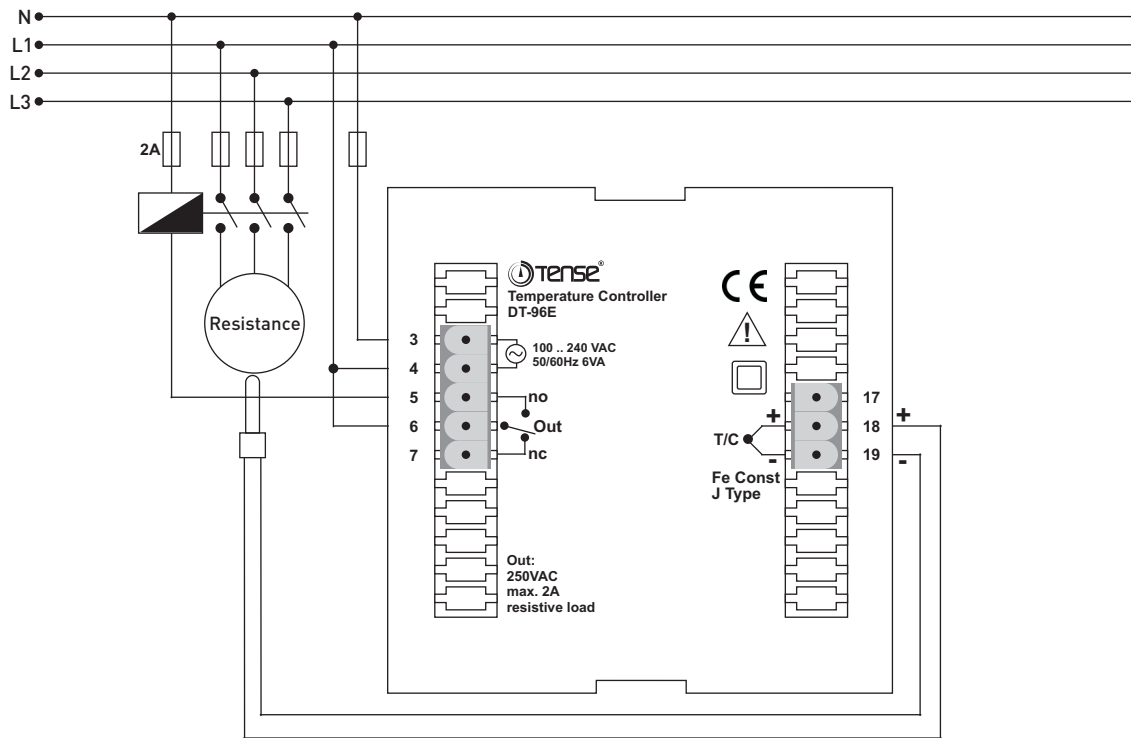
Error Message

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

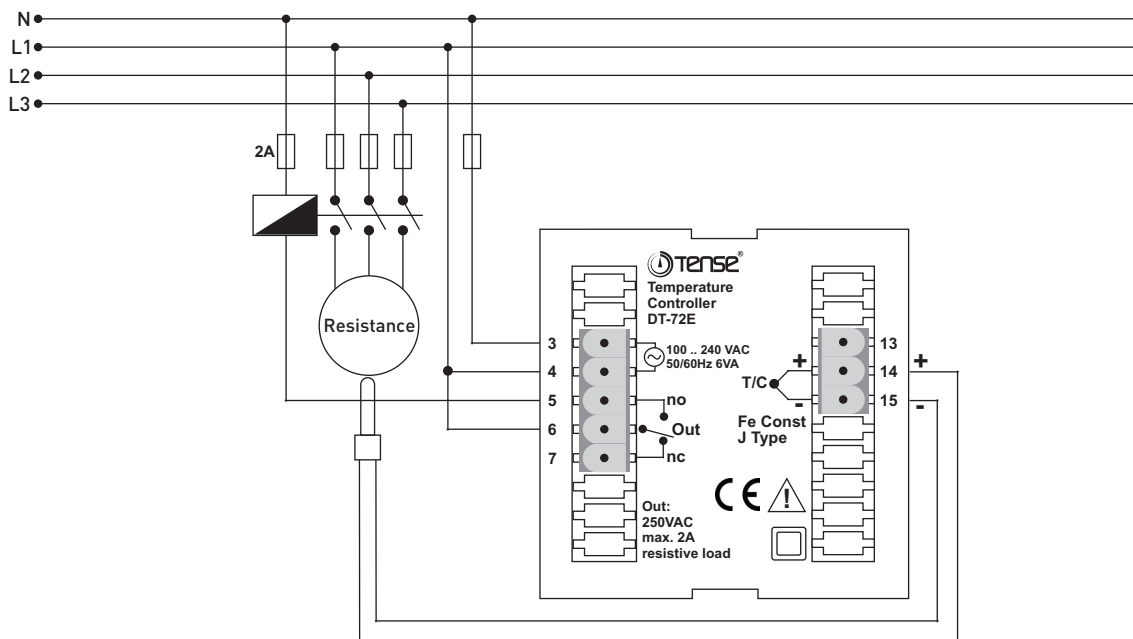
Warning:

- 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.

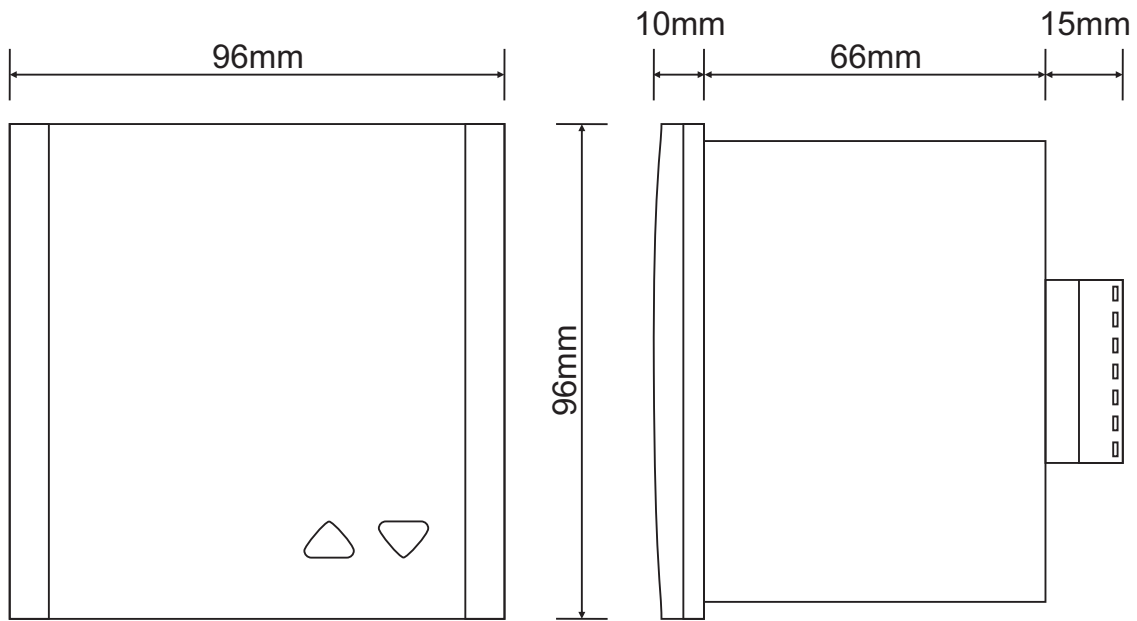
Connection (for DT-96E):



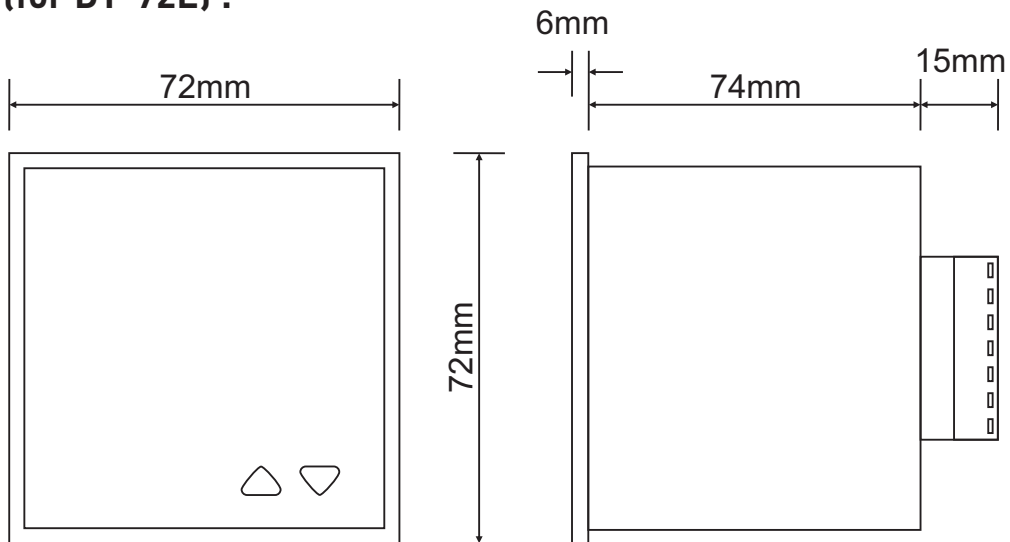
Connection (for DT-72E):



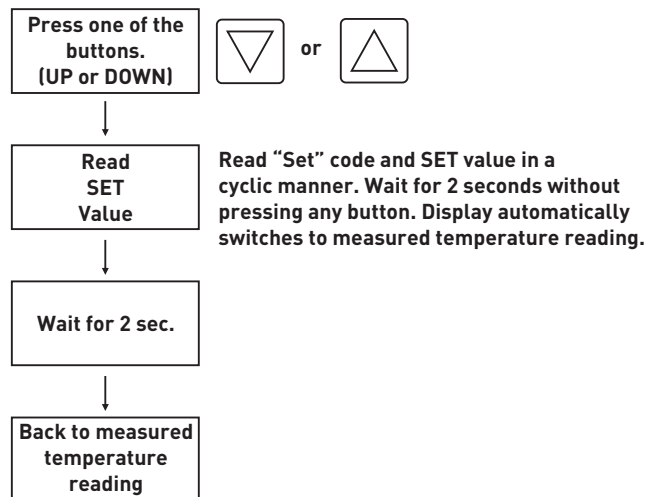
Dimensions (for DT-96E) :



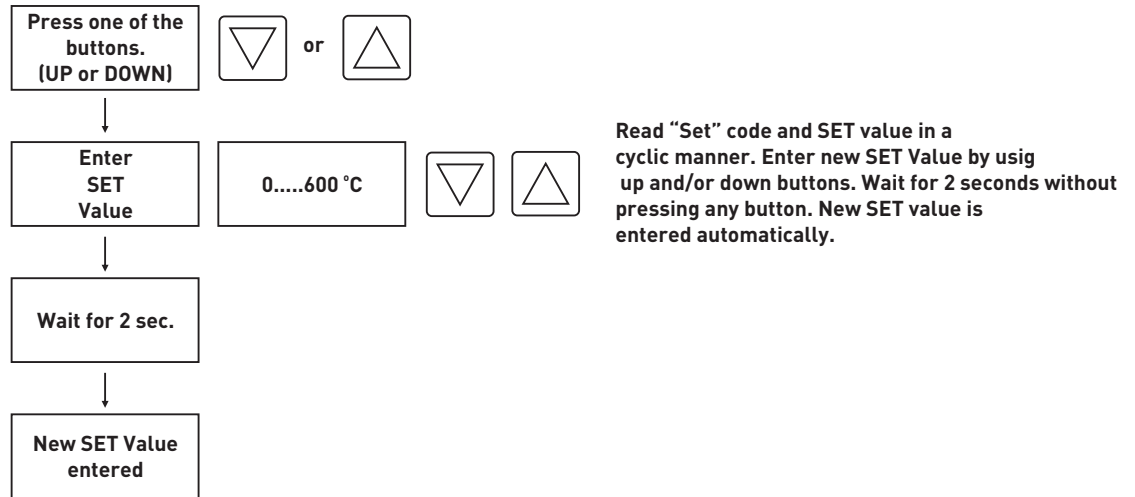
Dimensions (for DT-72E) :



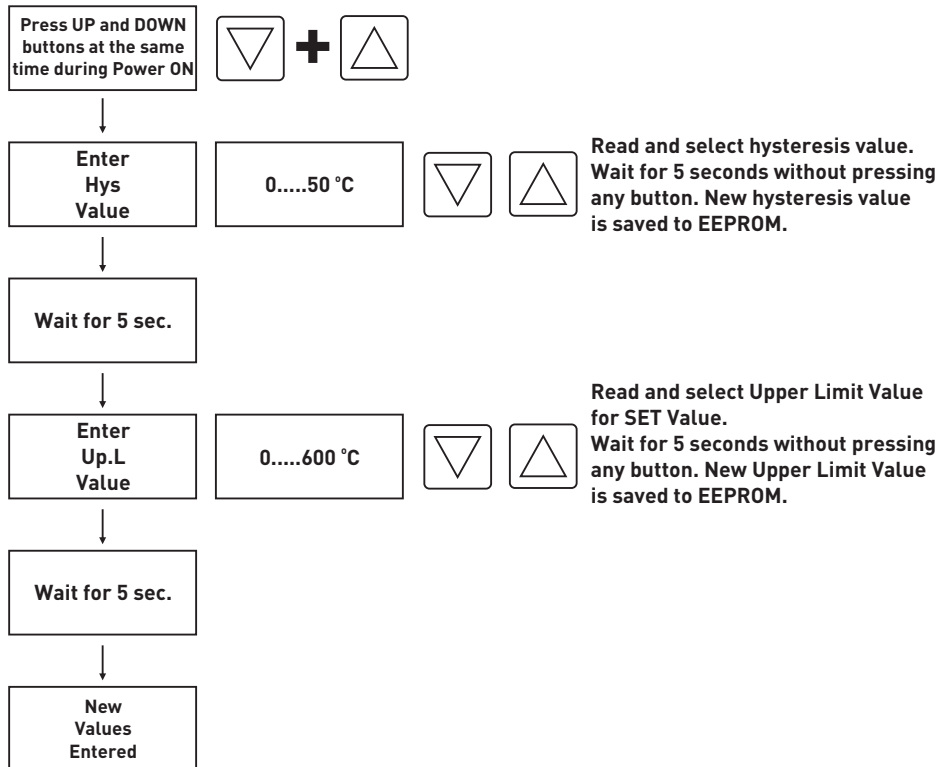
Reading SET Value:



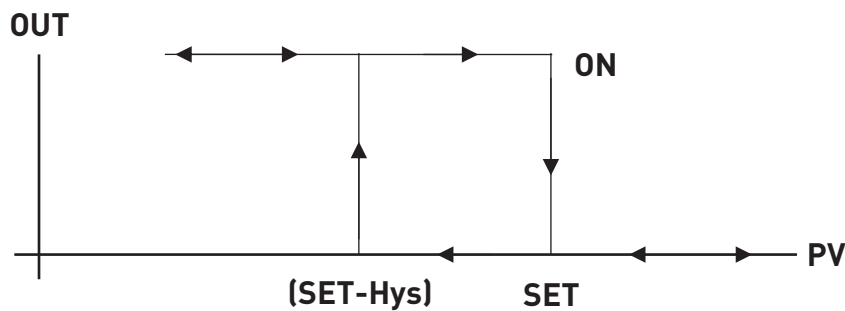
Adjusting SET Value:



Adjusting Hysteresis and Upper Limit Values



OUT; Control Form (ON-OFF):



OUT relay is OFF when process value (PV) is greater than or equal to SET value.
 OUT relay is ON when PV is less than or equal to (SET-Hys) value.