

General Specifications:

- μ P based, temperature controller with analogue SET
- Sensor type: T/C (J), Fe-Const
- Control Form: Proportional or ON-OFF, selectable
- Displays SET and PROCESS values
- Cold-junction compensation for T/C
- Excellent linearity with °C/mV look-up tables
- EEPROM memory to store settings
- Detects sensor failure
- 96x96mm
- Easy connection with plug-in connectors

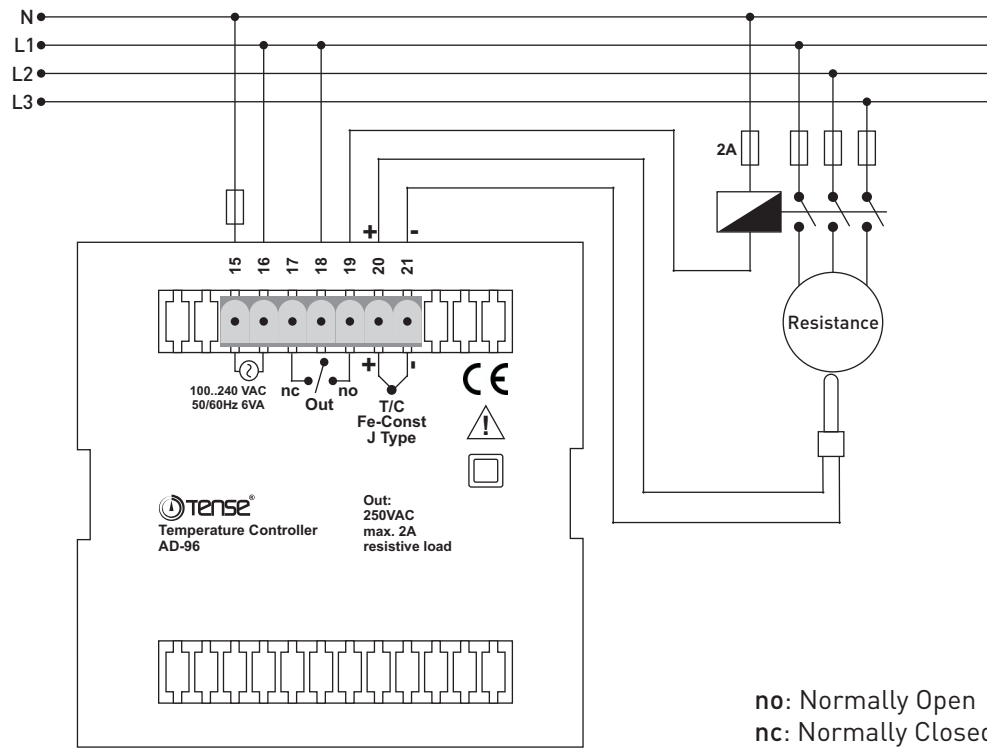
Technical Specifications:

- **Panel Hole Sizes** : for AD-96 90x90mm
- **Display** : 3 Hane 7 Segment
- **Sensor** : Fe-Const, J type T/C
- **Measuring Scale** : 0.....400 °C
- **Resolution** : ± 1 °C
- **Accuracy** : $\pm \%1$ (Over full scale)
- **Control Form** : ON-OFF or Proportional - selectable
- **Heat Output** : Relay (NO + NC), 250VAC, 2A, Resistive Load
- **SET Scale** : 0.....400 °C
- **SET Hysteresis** : 1.....20 °C
- **Proportional Band** : 1.....30 °C
- **Control Period** : 10.....240 sec.
- **Cold, Junc. Comp.** : 0.....50 °C
- **Supply Voltage** : 100.....240VAC, 50/60Hz
- **Power Consump.** : < 6VA
- **Operating Temp.** : -20 °C.....55 °C
- **Operating Altitude** : < 2000m
- **Failure** : Heat output OFF in case of sensor failure, measurement out of range or hardware failure.

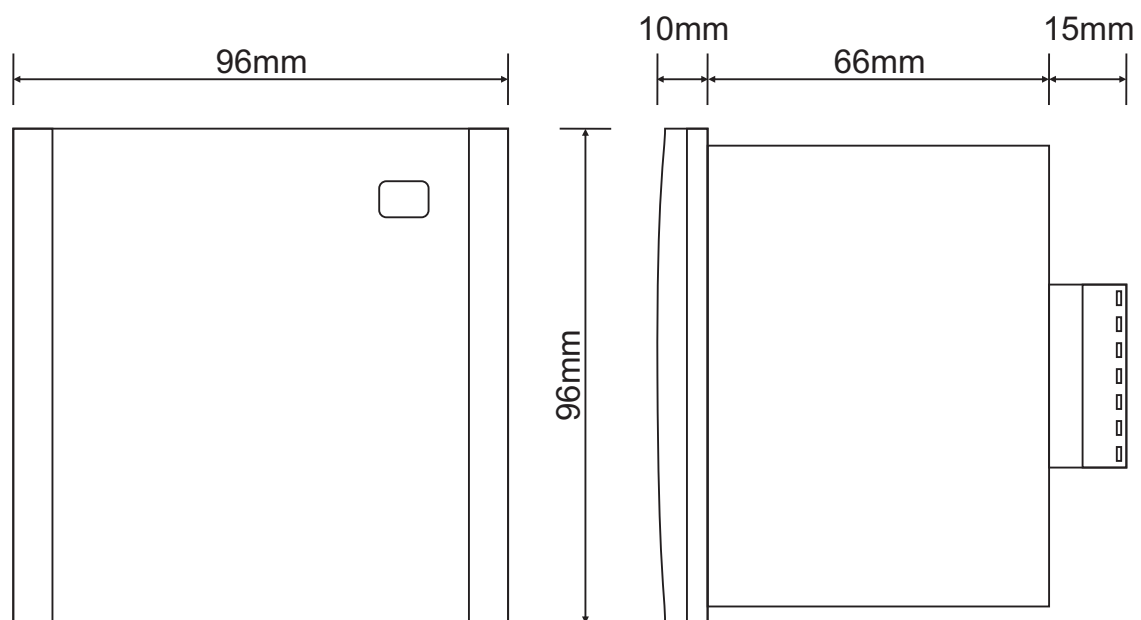
Error Message:

- **or** : Displays “or” message in case of sensor failure, measurement out of range or hardware failure.

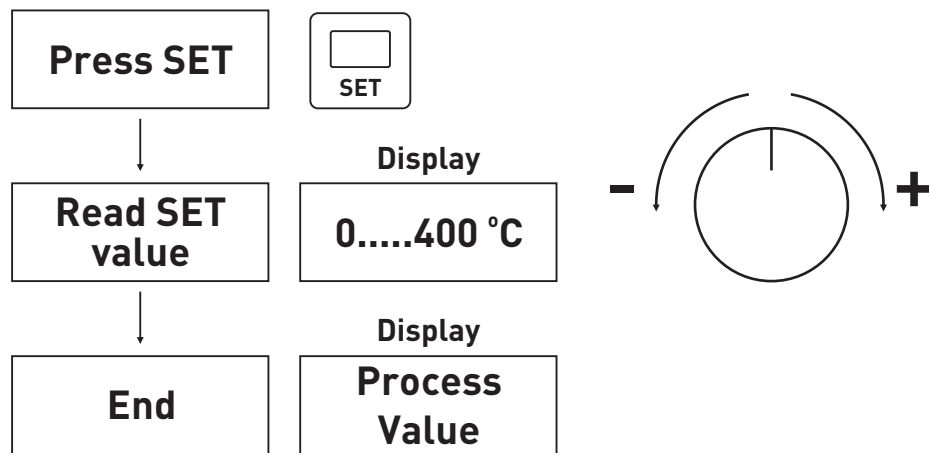
Connection:



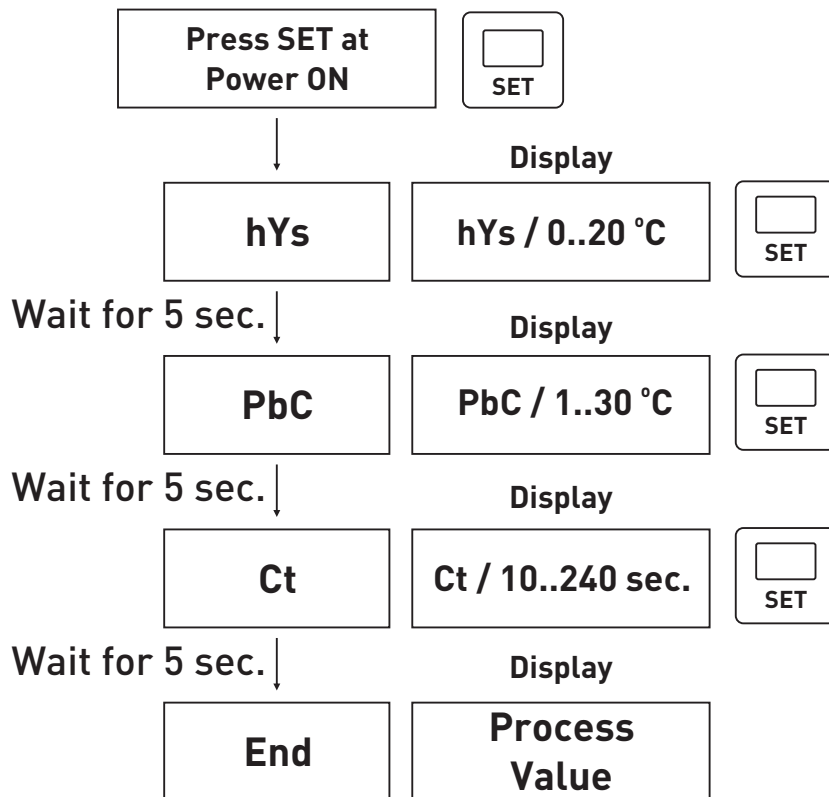
Dimensions:



Programming Heat SET:



Programming Hysteresis (Hys), Proportional Band (PbC) and Control Period (Ct):

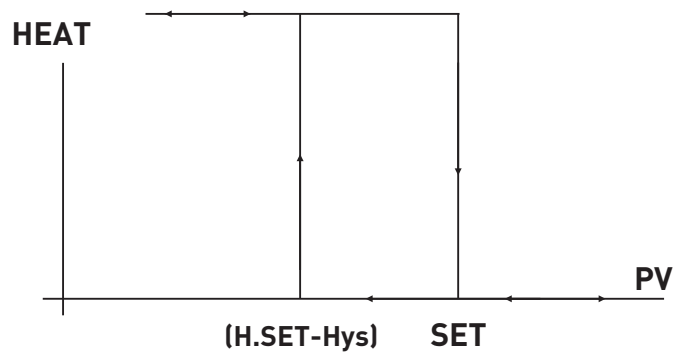


Factory Settings:

Hys : 3 °C
PbC : 12 °C
Ct : 30 sec.

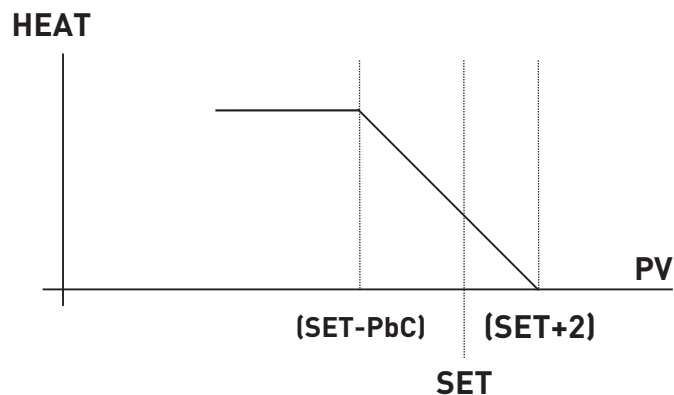
ON-OFF Control:

- ON-OFF is active when "Hys" is other than 0.



Proportional Control:

- Proportional Control is active if "Hys" is set to 0.
- **PbC**: Proportional band in °C + 2 degrees. Refer to figure below
- **Ct**: Control period for proportional control.



Warning:

- Use shielded and twisted signal cables and connect shield to ground on device side. Use correct compensation cables for T/C sensors. Connect 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.