AD-96 ENG

THERMOSTAT

General Specifications:

- µP 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 compansation 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	:	± %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.

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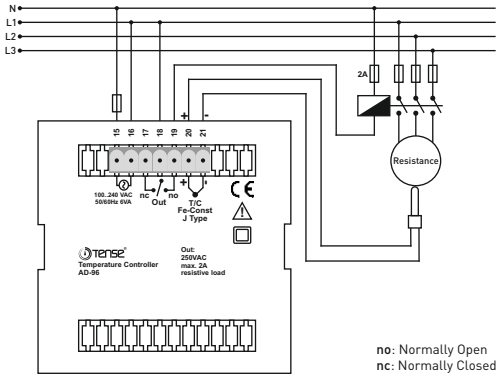
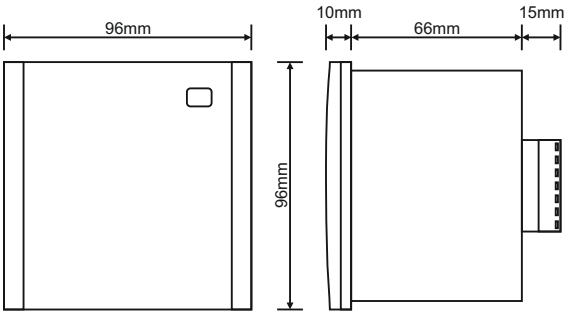
Connection:

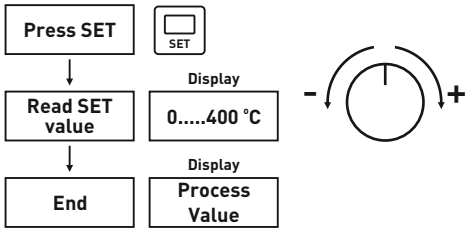


no: Normally Open
nc: Normally Closed

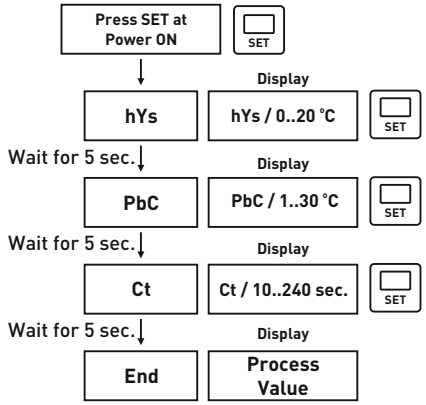
Dimensions:



Programming Heat SET:



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

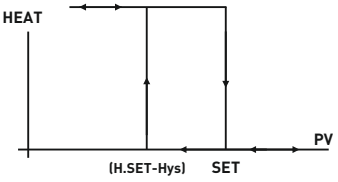


Factory Settings:

Hys : 3 °C
PbC : 12 °C
Ct : 30 sec.

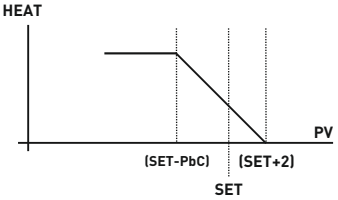
ON-OFF Control:

• ON-OFF is active when "Hys" is other then 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. 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 precauitons 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.