DTENSE

DT-312 ENG

MADE IN TURKEY

CE

ON/OFF TEMPERATURE CONTROLLER

General Specifications

- µP based, temperature controller with HEAT and ALARM outputs
- Sensor type: PTC
- Measuring scale:-19.9 °C.....+99.9 °C
- ON-OFF control form
- OUT and ALARM outputs
- Selectable heating and cooling function
- Upper limit for SET and ALARM settings
- Lower limit for SET and ALARM settings
- Adjustable separate hysteresis for SET and ALARM settings
- Selectable relative, absolute or sensor failure alarm types
- Adjustable delay timer before OUT ON for cooling function
- Adjustable ON/OFF timers for OUT output in case of sensor failure (for both heating and cooling function)
- Input "Offset" feature
- Excellent linearity with °C/Ω look-up tables
- Password protection
- High accuracy
- EEPROM memory to store settings
- Easy connection with plug-in connectors

<u>/ Warning:</u>

- Use shielded and twisted signal cables and connect shield to ground on device side. Keep all signal cables away from contactors, devices/cables emitting electrical noise, power cables.
- Keep device away from contactors, devices/cables emitting electrical noise, power cables. Take precautions agains environmental conditions like humidity, vibration, pollution and high/low temperature during installation.
- Use fuse (slow 250mA 250VAC) on mains/supply input of the device. Use appropriate cables for mains connections. Apply safety regulations during installation.

Connection: N• 11. 12 13 ſ Warning: Pay attention to the polarities (+ & -) of PTC leads. Wrong connection may cause wrong measurement or sensor failure. Resistance no: Normally Open DT-312 Alarm Out no nc nc nc: Normally Closed 100 .. 240 VAC 50/60Hz 6VA 6 ~ 2 2 6

Dimensions: 7.5mm 15mm 78mm 61mm 36mm Technical Specifications: : for DT-311 29x71mm Panel Hole Sizes Display : 3 Digits 7 Segment : PTC Sensor Type : -19.9....+99.9 °C Measuring Scale Resolution : ±0.1 °C Accuracy : ± %1 (Over full scale) : ON-OFF Control Form Out Output : Relay (NO + NC), 250VAC, 2A, Resistive Load Alarm Output : Relay (NO), 250VAC, 2A, Resistive Load Heat SET : LoL.....UPL °C (Hst) : AtP = Abs, -Ab; LoL.....UPL °C (Ast) Alarm SET AtP = rEL, -rL; (HSt+rAL), (HSt-20).....(HSt+20) °C • Heat Hysteresis : 0.1....20.0 °C (Hhs) Alarm Hysteresis : 0.1....20.0 °C (Ahs) Offset : -19.....+20 °C (OFS) : H-C; Ht (Heating), CL (Cooling); selectable Function • Suppyle Voltage : 100....240VAC, 50/60Hz • Power Consump. : < 6VA **Operating Temp.** : -20 °C....55 °C • Operating Altitude : < 2000m • Failure : In case of sensor failure, measurement out of range or hardware fails, OUT output is first OFF for TOf and then ON for Ton periodically. For continuous OFF, enter TOn=0 & TOf=0. For continuous ON, enter TOn=1 & TOf=0. In case of sensor failure, measurement out of range or hardware fails, and ALARM type is selected as "SnS", ALARM output is always ON, otherwise under normal in scale measurement, always OFF. Error Message: : Displays "or" message in case of sensor failure, measurement out of range or hardware • or fails.

Programming Parameters:



