

MODEL T48 - 1/16 DIN TEMPERATURE CONTROLLER

- PID CONTROL WITH REDUCED OVERSHOOT
- ON DEMAND AUTO-TUNING OF PID CONTROL SETTINGS
- NEAR-400PSS SET-EL
- DUAL LED DISPLAYS FOR SIMULTANEOUS INDICATION OF TEMPERATURE AND SETPOINT
- STATUS INDICATORS FOR OUTPUTS AND CONTROL MODES
- ACCEPTS 10 TYPES OF SENSOR INPUTS (Thermocouple or RTD)
- OPTIONAL HEATER CURRENT MONITOR AND HEATER BREAK ALARM
- OPTIONAL DUAL ALARM OUTPUTS
- OPTIONAL TWO LINEAR DC OUTPUTS (24 V or 12 V, 5A or 20 mA)
- MANUAL/AUTOMATIC CONTROL MODES
- SETPOINT RAMPING FOR PROCESS STARTUP
- PROGRAMMABLE USER INPUT (Digital) FOR ADDED FLEXIBILITY
- SENSOR ERROR COMPENSATION (DRIVE) AND BREAK DETECTION
- HEATING AND OPTIONAL COOLING OUTPUTS
- PARAMETER SECURITY VIA PROGRAMMABLE LOCKOUTS
- FIELD-REPLACABLE OUTPUT BOARD (Relay or Logic/SSR Drive)



- OPTIONAL TRIAC OUTPUT
- SECOND SETPOINT SETTING
- OPTIONAL REMOTE SETPOINT INPUT (5A or 20 mA)
- OPTIONAL RS485 SERIAL COMMUNICATIONS
- PC SOFTWARE AVAILABLE FOR CONTROLLER CONFIGURATION



UL Recognized Component
File # E158876

DESCRIPTION

The T48 Controller accepts signals from a variety of temperature sensors (thermocouple or RTD elements), precisely displays the process temperature, and provides an accurate output control signal (linear proportional or linear DC) to maintain the process at the desired temperature. The controller's comprehensive yet simple programming allows it to meet a wide variety of application requirements.

The controller operates in the PID control mode for fast heating and cooling, with on-demand auto-tune, which will establish the tuning constants. The PID tuning constants may be fine-tuned by the operator at any time and then locked out from further modification. The controller employs a unique overload suppression feature, which allows the quickest response without excessive overshoot. The unit can be configured to operate in the manual mode, providing the operator with direct control of the output. The controller may also be programmed to operate in the ON/OFF control mode with adjustable hysteresis. A second setpoint is available on select models to allow quick selection of a different output setting.



CAUTION: Risk of Energy.
Read complete instructions prior to installation and operation of this unit.



CAUTION: Risk of electric shock.

DIMENSIONS: In inches (mm)



Red Lion T48 Troubleshooting Guide

Katrin Zwirgmaier

A red circular graphic with a gradient, appearing as a partial circle or a thick arc, located to the right of the author's name.

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