

Analog Temperature Control (Model: L-Analog-Temp)



Safety Warning!

This product should be installed by a qualified technician, electrician or electrical maintenance person familiar with its operation and the hazards involved. Proper installation, which includes wiring, mounting in proper enclosure, fusing or other current protection and grounding, can reduce the chance of electric shock, fires or explosion in this product or other products used with this product, such as electric motors, switches, coils, solenoids and relays. Eye protection must be worn when working with this product. If information is required on this product, contact the factory. It is the responsibility of the individual installer to supply this safety warning to the ultimate user of this product. The temperature dial are never to be used as a safety disconnect, since they are not fail-safe. Use only the AC line for this purpose. Fire and/or electrocution can result due to improper use of this product. Warning, operation of this device requires detailed installation and operation instructions provided in the Installation/Operation Manual intended for use with this product. It should be retained with this device at all times.

CAUTION: Because this unit may not always fail safe, a high limit temperature safety device must also be used in the oven or machine being controlled.

Maximum Electrical Rating and Limitation of Use

- **Input Rating:** 120/ 240VAC 50 / 60 Hz line voltage
- **Output Rating:** Relay 10A
- **Consumption:** 2 Watt
- **Catalog number:** L-Analog-Temp
- **Temperature Rating:** (per 508C-55.6) Surround Air Temperature 30-130 deg F°
- **Differential Band:** Adjustable from 5 to 25 deg F
- **Thermocouple Break Protection:** UPSCALE
- **Agency Approvals:** UL 1092,UL916, FM 3545,
- **Enclosure:** Unit must be mounted in a protective enclosure where it will **not** be exposed to contaminants such as water, metal chips, solvents or excess vibration. Enclosure should be at least 1-1/2 times size of the case
- **Maintenance/Repair:** This unit contains no user serviceable parts. Do not remove from mounting base.
- **Caution: For safe operation, the device being controlled must also have a high limit safety cutoff.**

Installation Instructions

1. Locating

Select a location that is not subject to moisture, dirt, oil, and vibration. Ambient temperature must be between 30F and 130F. Locate the thermocouple in a location close to the temperature sense area and allow for quick response to the temperature being monitored.

2. Wiring

Consult the wiring diagram below. This unit can be operated from 120 or 240V 50/60HZ line voltage. Be sure to apply the proper voltage to the correct terminal. **DO NOT APPLY 240V TO THE WRONG TERMINALS.** Both the Supply voltage and the switched load output must be fused. Separate the low voltage potentiometer and thermocouple from the high voltage and control relay wires. The orange lead on the potentiometer is the DC supply voltage – Do NOT allow this terminal to touch the chassis. Avoid stress to potentiometer terminals - Do not bend the terminals with your fingers..

3. Adjustment

The band adjustment pot (flat adjustment screw near upper corner of board) adjusts the band gap or hysteresis of the temperature control. Fully clockwise maintains tight temperature control with maximum cycling. Adjustment of the potentiometer towards the fully counterclockwise position will reduce cycling at the expense of larger temperature swings.

***Note: Be sure that both power input and relay inputs are fused**

