

SELECTRONICS

Innovative Solutions Through Electronic Technology

Installation and Operating instructions for the

Temperature Limit Alert

Model TLA-3



The TLA-3 provides constant monitoring of ambient temperature in the vicinity of the unit and provides audible alert if the temperature has exceeded the high or low set-point limits. Typical applications include the alert of medical personnel should the temperature exceed stated limits where pharmaceuticals are stored in ambulances and other shipping and transport vehicles or storage locations.

High and low temperature alert limits are easily set to the user-specified “safe” temperature range by buttons on the internal control panel which is covered by a protective faceplate to prevent unauthorized adjustment. The control panel also displays the current temperature and the highest and lowest temperature sensed since the last push of the “CLEAR MEMORY” button. (see photo below)

The TLA-3 is available with an **internal sensor** located *inside* its case for monitoring the temperature right where it is located *or* with a **remote sensor** connected by a ten-foot cable so the sensor can be mounted inside a cabinet, refrigerator, heater, etc. The unit is powered from an internal standard 9-volt battery.

INSTALLATION

Installation is simple, requiring only that the unit be mounted near the material to be monitored. Choose a visible, secure area to mount the TLA-3. A vertical wall or panel within reasonable proximity to the sensitive area is recommended.

Remove the four corner screws on the face of the TLA-3 to remove the faceplate. Use the two holes in the back panel of the enclosure as a template to mark the place for the mounting screws on the chosen location surface. Drill or auger two 3/32" holes and fasten the enclosure to the vertical surface with the supplied self-tapping screws or any other screws of choice.

After the enclosure is securely mounted the temperature set-points should be programmed.



internal Control Panel view

PROGRAMMING

To set or check the settings of the HI and LO temperature alarm set-points:

- Be sure the upper left corner of the display shows “IN” if using the **internal** sensor or “OUT” if using the **remote** sensor. If not press the MODE button until it does.
- Press and hold the SET button until the display changes to show “HI” in the lower right corner.
- If the lower left corner shows flashing dashes then the alarm is not armed, so press the MODE button once so the dashes change to digits.
- The lower left corner will then show the HI alarm set-point
- To adjust the value press and hold or tap the CLR MEM/+ button (if you pass the desired value just hold the button and it will cycle back to the lowest settable value)
- Press the SET button once again to show the LO alarm set-point
- To adjust the value press and hold or tap the CLR MEM/+ button
- When setting is complete press the SET button once to exit the programming mode

The front panel should be re-installed on the back by tightening the four corner screws until the enclosure seals. **DO NOT OVER-TIGHTEN**. The unit is now sealed and secure from inadvertent or intentional tampering with the safe temperature settings.

OPERATION

The TLA-3 continuously monitors the ambient temperature in its vicinity. Its Liquid Crystal Display shows the CURRENT temperature, the MAXimum temperature experienced since reset, and the MINimum temperature since reset. The faceplate may be removed at any time to view these readings should logging or verification of the highest and lowest temperature be required. Pressing the CLR MEM/+ will RESET the MAX / MIN memory to the current temperature and will then continuously record and display the MAX and MIN temperatures from this time forward.

The SILENCE / TEST pushbutton may be pressed at any time to momentarily test the audible alert.

In the event that the ambient temperature rises above the upper set-point or below the lower set-point the audible alert will sound for twenty seconds then silence for thirty seconds, then sound for ten seconds and repeat the ten-on, thirty-off until manually reset by a momentary press of the SILENCE / TEST pushbutton. These silence periods reduce the drain on the battery in case the discovery of the temperature violation and the manual reset do not occur for an extended period of time.

Specifications:	Temperature range:	-20 to +70 degrees Centigrade, or -4 to +122 degrees Fahrenheit
	Temperature resolution:	.1 degree C or F
	Temperature accuracy:	+/- 1 degree C or +/- 2 degrees F
	Power supply:	internal 9-volt battery (standard)
	Current consumption:	23 microamps
	Materials:	phenolic plastic

Ordering information:	Temperature Limit Alert with internal sensor	model TLA-3
	Temperature Limit Alert with remote sensor	model TLA-3E

NOTE: We also offer a version powered by an external power source instead of internal battery, see our TLA-2

WARRANTY: Three years, materials and workmanship