



ThermoProbe, Inc.

Model TL1- R USER MAINTENANCE

Recommended Operation:

The TL1-R is an improved version of our successful TL1-A. The TL1-R thermometer is intended to be used anywhere precision readings are required.

Arrows:

The Arrows on the left side of the screen will show you at a glance as to whether the reading is increasing, decreasing or has stabilized. Intuitively the *Up Arrow* symbolizes an increasing temperature, *Down Arrow* a decreasing temperature and no arrows a stabilized status.

Low Battery:

The instrument will display a warning "Lo BAAtt" if the battery needs to be changed.

Battery Replacement Procedure:

Ensure that the instrument is off. With a small flat object move the plastic tab that is over the edge of the battery. Once the tab is moved back the battery will lift upward for removal. Avoid bending the battery terminal. Note battery polarity before inserting a new battery into the holder. (+ Positive side faces top clip)

Auto-Off:

The unit will turn off automatically in 20 minutes if no buttons are pressed. (*Pressing "On/Off" button 4 seconds will disable the Auto-Off feature.*)

Calibration:

Calibration service is available from ThermoProbe and authorized distributors.

Authorized Repair:

It is recommended that service beyond the scope of this article be presented to ThermoProbe, Inc. or one of its authorized distributors.

On/Off button used to access the following operations:



- Single press turns instrument On or Off
- Press until "Conn" is displayed disable Auto-Off feature

Function button used to access the following operations:



- Lowest Reading (min),
- Highest Reading (max)
- Average Reading
- °F <-> °C
- Change display resolution

Note: As soon as the TL-1R is turned on, the minimum, maximum and average data is continuously updated.

User Operation	Function (f)	Annunciator
One quick push	Lowest Reading (min),	"L"
	Average Reading	"A"
	Highest Reading (max)	"H"
Hold and Release when display reads "C-F"	°F <-> °C	"C-F"
Hold and Release when display reads "dEC"	0.X <-> 0.XX	"dEC"

Error Codes:

Two error codes have been established to provide the user information concerning the temperature sensor.

- Err Lo - Short Circuit or Under Range
- Err Hi - Open Circuit or Over Range

"Err Lo" - When this happens, one of two situations exists. In normal operation this represents a below range reading. The temperature being read is below the measurable specified range. If the sensor is not exposed to temperatures below the specified operating range it is possible that the sensor or the connection to the circuit board is short-circuited. Moisture on the circuit board may cause this condition.

"Err Hi" - Represents an over range reading, meaning the temperature at the sensor has risen above the measurable specified limit of the unit. Another possibility for this reading is a discontinuity in the sensor circuit. This may occur as a result of a broken sensor wire at the circuit board or damaged sensor.



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