

## Temperature

### Range

**Internal sensor:** -29 to 72°C (-20.2 to 161.6°F)

**External probe:** -200 to 72°C (-328 to 161.6°F)

**Resolution:** 0.1°

### Accuracy

**Internal:** ±0.2 between (2 to 10°C); ±2°C otherwise

**External:** ±0.2°C between (0 to 30°C); ±2°C otherwise

### Storage

**Capacity:** 64,000 readings

### External

**Probe:** Stainless steel: 4.35" length x 0.14" diameter

**Cable:** PTFE jacket; 18" length

### LCD

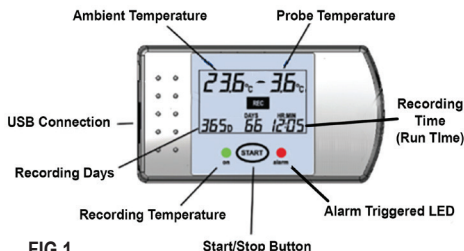


FIG 1

**Ambient Temperature** – The current temperature reading of the internal sensor.

**Probe Temperature** – The current temperature reading of the external probe sensor.

**Start/Stop button** – The button is used to start the device logging once it has been initialized. Hold button down for 3 seconds to activate logging. If the Stop key feature is enabled, pressing and holding the button will stop logging preemptively. Note: if the thermometer is stopped using the Stop button, the thermometer must be reinitialized using the MaxiThermal software before logging may be restarted.

**Alarm Triggered LED**– Indicates the temperature is in an active alarm state.

**Recording Time (Run Time)** – Indicates the amount of time passed since the thermometer logging was initialized/started.

## PROGRAMMABLE USER SETTINGS

Through MaxiThermal software and USB interface, the user is able to program the unit to their specific requirements.

Programmable options are listed as follows:

- **Description** – Each Logger-Trac device may be programmed with a unique description. This allows the user to identify at the time of download where the device was used.
- **Time zone**
- **Auto Adjust Daylight Time enable** – The internal clock

will automatically adjust when daylight savings time shift occurs.

- **Temperature Measurement Units (Celsius/Fahrenheit)** – The temperature data will display on the LCD in the selected measurement units.
- **Start delay** – When this feature is used, a time delay occurs before data recording is started after the user presses the START button.
- **Recording duration/Sample Interval** – The user can either select the data recording interval or the total recording duration. Note the parameters are dependent upon each other so changing one field also changes the other.
- **Alarm setting** – Maximum and minimum alarm temperature boundaries can be set. If an alarm event occurs, an audible alert, "ALARM" will flash for the corresponding temperature reading, and a red LED will flash. The setting resolution is 1°.
- **No alarm** – Disable the alarm with this option.
- **User Stop Key Enable** – This feature allows the user to halt data recording by holding down the START button on the device once recording is started.

## PRE-PROGRAMMED SETTING

All units are pre-programmed at factory with the following settings:

- Temperature Units: Celsius
- Alarm setting – Internal sensor Minimum: 20°C Maximum: 30°C
- Alarm setting – External sensor probe Minimum: -200°C Maximum: -192°C
- Recording Duration: 30 days
- User Stop Key Enable: enabled

## HOW TO START THE DATA LOGGER

1. Initialize Logger-Trac using MaxiThermal software to desired settings.
2. Disconnect thermometer from USB cable.
3. When ready to begin recording, press and hold START button for 3 seconds on front panel. LCD will become active, green LED will begin flashing, and display current temperature as well as the REC symbol to indicate logging is now active.
4. Place probe in environment to begin monitoring.

**NOTE:** The probe and cable may be exposed to temperatures as low as -200°C; however, the probe cable may become brittle after prolonged exposure to temperatures below -200°C. Bending a brittle cable may result in damage to the cable. When exposed to temperatures below -50°C, wait for the cable to reach ambient temperature before bending.

**NOTE:** The audible alarm may be turned off by pressing and holding the START button until "Snd OFF" appears on the display.

#### **HOW TO STOP THE DATA LOGGER**

1. The logging can be stopped in advance of the preprogrammed logging duration time by plugging the thermometer into a PC using the micro USB cable and selecting Stop under the Logger Menu in MaxiThermal software. Also, if the stop key feature is enabled, the user may stop the thermometer logging by pressing and holding the START button for 3 seconds. The LCD will display the word END once logging is stopped.
2. Once the device has been stopped, the user may download the logged data from the thermometer.
3. Logging cannot be restarted until the thermometer has been reinitialized using MaxiThermal.

#### **HOW TO REPLACE BATTERY**

On back the Datalogger, turn the round plate counterclockwise, and replace with a new CR2477 Lithium Coin Cell battery. Turn the plate clockwise to lock.

#### **WARRANTY, SERVICE, OR RECALIBRATION**

For warranty, service, or recalibration, contact:

##### **CONTROL COMPANY**

4455 Rex Road

Friendswood, Texas 77546 USA

Ph. 281 482-1714 • Fax 281 482-9448

E-mail sales@control3.com • www.control3.com

Control Company is ISO 9001:2008 Quality-Certified  
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# **TRACEABLE® LOGGER-TRAC™ LN2 THERMOMETER DATALOGGER INSTRUCTIONS**