

The LT2 Temperature Data Logger measures one (1) Internal and one (1) External temperature, simultaneously.

- Internal Temperature Range -40°F to 150°F (-40°C to 65°C) w/ Lithium Battery
- External Temperature Range -40°F to 150°F (-40°C to 65°C)
- 1 second to 18 hour sample rate
- Over/Under Alarm threshold settings

SEALED UNIT PARTS CO., INC.
PO BOX 21, 2230 LANDMARK PLACE
ALLENWOOD, NJ 08720 USA
www.supco.com • info@supco.com



- Visual alarm indication
- Tamper proof
- 1 year warranty
- PC Software operates with all LOGiT loggers (p/n LLS Not Included)

Supco

LT2

LOGiT

Temperature Data Logger

- One (1) Internal Temperature Measurement
- One (1) External Temperature Measurement

SEALED UNIT PARTS CO., INC.
PO BOX 21, 2230 LANDMARK PLACE
ALLENWOOD, NJ 08720 USA
www.supco.com • info@supco.com

LT2 Overview

The LT2 Data Logger is a precision instrument for recording the temperature of the surrounding environment and/or the temperature of the external temperature probe. The remote probe allows the LT2 to record internal and external temperature simultaneously. The external temperature probe is interchangeable and replacement probes are available. The LT2 can store up to 21,500 temperature readings when a single probe (internal or external) is used. When both probes are enabled, 10,750 temperature readings can be recorded for each probe, as well as the temperature difference between the internal and external probes.

The LT2 Data Logger has an internal temperature sensor and an external temperature probe. The external probe standard length is 15ft. It can be extended up to 300ft using an optional extension wire.

Connecting the External Temperature Probe to the LT2

The LT2 external temperature probe is not polarized, which means that it does not matter in what order the two wires are connected to the logger.

LT2 Battery Selection

As with all the LOGiT Loggers, you have a choice between using an Alkaline or a Lithium 9V battery. The loggers can operate twice as long on a Lithium battery than on an Alkaline battery. For the LT2 logger selecting the right battery has another important consideration. The internal temperature sensor is rated for temperatures between -40°F to 150°F (-40°C to 65°C). However, this range can only be achieved when using a Lithium battery. If you are using an Alkaline battery, the internal sensor temperature range is reduced to 32°F to 140°F (0°C to 60°C). This is because the Alkaline battery is not rated outside of this temperature range.

The temperature ranges are summarized in the table below.

Program Your LOGiT

Programming is achieved using the LLS LOGiT to PC Software and Interface (not included.)

LT2 Specifications

Sample Point Capacity	21500 points for single channel. 10750 points per channel for dual channel.
External Probe	-40°F to 150°F (-40°C to 65°C), 15ft standard. Can be extended to 300 ft.
Logger Operating Temperature Range	32°F to 140°F (0°C to 60°C) using Alkaline Battery. -40°F to 150°F (-40°C to 65°C) using Lithium Battery.
Storage Temperature	-40°F to 170°F (-40°C to 77°C)
Ambient Operating Relative Humidity	0% to 95% non-condensing
Alarms	Over and under alarms for internal and external sensors. Alarms are not available for temperature difference between the sensors.
Calibration	User single point offset calibration is available through software for both internal and external sensors.
Time Accuracy	+/-100ppm @75°F
Temperature Resolution	0.1°F (0.05°C)
Temperature Accuracy	+/- 1.0°F (0.5°C)
Dimensions	3" x 2.5" x 1.1" (7.6cm x 6.4cm x 2.8cm)
Weight	2.5 Oz (71g)
Power Source	9V Alkaline or Lithium battery.
Battery Life (average use)	20 Months using Alkaline Battery. 40 Months using Lithium Battery.

LOGiT Series Specifications

Sampling Interval	User selectable from 1 second to 18 hours, in 1 second increments.
Interface	COM (RS232) serial port. Software supports COM1 through COM8. Optional USB interface.
Alarms	Visual alarms with user selectable low and high thresholds for every channel.
Alarm Memory	Up to 50 alarm events. Alarm start time and alarm duration is stored.
Data Security	Locking sliding door prevents physical access to the logger data. Unique factory set logger id. Data collection session counter.
Compatibility Minimum System Requirements	Windows 95 and above. 8MB of RAM, 2M of disk space, 800 x 600 resolution, 1 free COM port or a free USB port (optional USB interface is required).
Recording Start	On door close, immediate after setup, or at a user specified data and time.
Recording Mode	Stop on memory full, or continuous recording with memory rollover.
Real Time Status	Visual indication through the status LED. User selectable status display frequency and LED brightness. Software real time status.
User Calibration	Password protected calibration for each channel.
User Message	Up to 30 characters.
Logger Channels	User selectable. Disabling channels increases the storage capacity of the other channels
Units	US and Metric. User selectable units.
Data Format	Custom format exportable to text or Excel spreadsheet.
Real Time Monitoring	Logger can be permanently connected to the computer and used as a real time, multichannel sensor with logging capability. Battery does not drain when logger is connected to the computer.

Battery	Logger Operating Temperature	Internal Sensor Temperature Sensor	External Probe Temperature Range
9V Alkaline	+32°F - +140°F (0°C - +60°C)	+32°F - +140°F (0°C - +60°C)	-40°F - +150°F (-40°C - +65°C)
9V Lithium	-40°F - +150°F (-40°C - +65°C)	-40°F - +150°F (-40°C - +65°C)	-40°F - +150°F (-40°C - +65°C)