

The LTC Thermocouple Temperature Data Logger measures one (1) external thermocouple temperature and one (1) internal temperature.

- Over/under alarm threshold settings
- Visual alarm indication

- One (1) K-type Thermocouple Probe included
- 1 second to 18 hours sampling rate

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



Supco

LTC

LOGiT

## Thermocouple Temperature Data Logger

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

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### LTC Thermocouple Temperature Logger

The LTC is a precision instrument for recording the temperature of a thermocouple probe, and the temperature of the internal sensor. The unit can be used with J, K, E, T, R and S type thermocouples. It comes standard with one K-type Thermocouple Probe. The LTC can store up to 10,750 samples of thermocouple and internal sensor temperatures.

#### Thermocouple Temperature Ranges

The LTC logger supports the temperature ranges summarized in the table below. These specifications are for the logger only. The probe you are using may have different specifications. Never attempt to measure temperatures beyond the specifications of the probe.

Thermocouple	Min	Max
J	-110°F (-79°C)	1350°F (732°C)
K	-220°F (-140°C)	1900°F (1038°C)
E	-75°F (-59°C)	1040°F (560°C)
T	-235°F (-148°C)	660°F (349°C)
R	32°F (0°C)	2640°F (1449°C)
S	32°F (0°C)	2640°F (1449°C)

#### Program Your LOGiT

Programming is achieved using the LLS LOGiT to PC Software and Interface (Not Included).

#### LTC Specifications

Sample Point Capacity	10,750 points of thermocouple and ambient temperature.
Alarms	Over and under alarms for thermocouple and ambient temperature.
Calibration	Factory calibrated. User single point offset calibration is available through software for both thermocouple and ambient temperatures.
Logger Operating Temperature	32°F to 140°F (0°C to 60°C)
Storage Temperature	-40°F to 170°F (-40°C to 77°C)
Real Time Clock Accuracy	+/-100ppm @75°F
Supported Thermocouples	J, K, E, T, R, S Software selectable.
Thermocouple Connector	Industry standard miniature universal connector.
Supplied Probe	3ft FDA approved K type thermocouple probe. Probe temperature range is -40°F to 400°F (-40°C to 204°C)
Thermocouple Sensor Accuracy	Thermocouple wire dependant. The supplied probe accuracy is +/-4°F (2°C) or 0.75% of reading, whichever is greater.
Thermocouple Sensor Resolution	0.1°F (0.05°C)
Internal Sensor	+/-2°F (1°C). For full accuracy allow a few minutes of thermal setting after connecting the thermocouple to the logger.
Temperature Accuracy	
Internal Sensor	
Temperature Resolution	0.1°F (0.05°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 (Not Included).
Battery Life (average use)	20 Months using Alkaline Battery. 40 Months using Lithium Battery.
Software Compatibility	Compatible with LOGiTpc software version 1.20 and above. Software upgrades are available on the internet at <a href="http://www.supco.com">www.supco.com</a>

### Safety Precautions

The thermocouple logger is intended to measure both very low and very high temperatures. The LTC should only be used by qualified personnel, trained in the safe operation of electronic test equipment. Please follow the safety precautions below when operating the logger.

- As with any electrical device, working with high voltage is hazardous. Avoid connecting the thermocouple to surfaces with high voltage levels. If such a connection is possible, disconnect the thermocouple from the logger before connecting the logger to your computer. If the thermocouple probe touches a high voltage surface while the logger is connected to your computer, permanent damage to your computer may result.
- Do not touch the temperature probe when measuring excessively high or low temperatures.
- Do not attempt to measure temperatures beyond the specifications of the probe.

#### LOGiT Common 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	Windows 95 and above.
Minimum System Requirements	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 date 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.