

3M™ Temperature Loggers

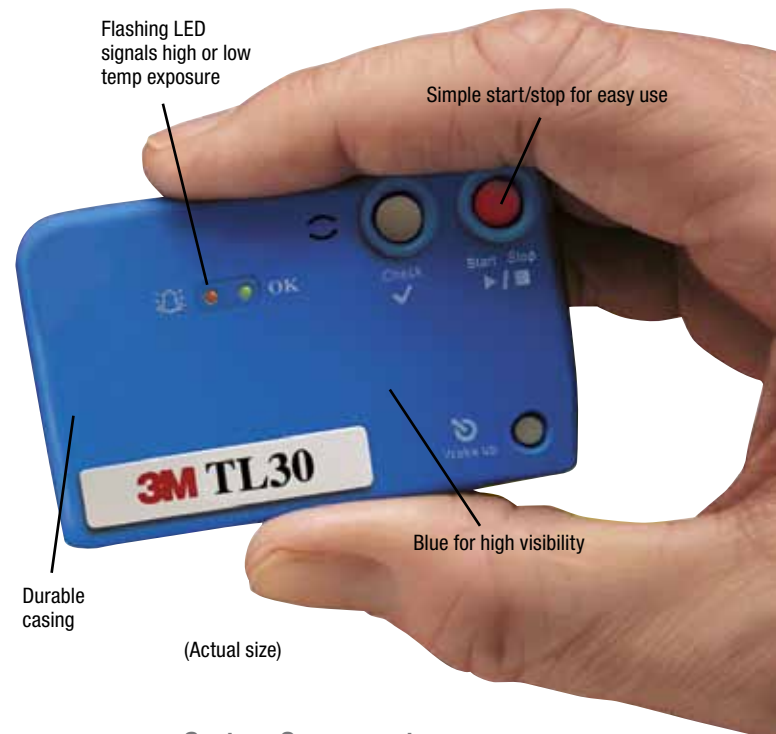
TL30 and TL30V

Monitor temperature sensitive products to verify product safety and shelf life

- Easy to use software
- Cost-effective reusability
- One unit for short or long term monitoring

When you or your customers want to know temperature conditions during shipment, all the data you need now comes in a small, feature-loaded package:

- Cost effective alternative to single use monitors
- Reliable and accurate recording of up to 50,000 data points of time and temperature
- High performance battery for up to 12 months use with short circuit protection and low battery indicator
- LED flashing options to visually monitor the temperature exceeding programmed limits
- EN 12830 compliant for the transport and storage of chilled or frozen foods



(Actual size)

System Components

- 3M Temperature Logger TL Series PC Software
- Uses any standard mini USB cable
- Food grade plastic bag to be used when the logger is placed in contact with food



Monitor package temperature for confidence in freshness and shelf life during shipment and storage.



Flexibility and ease of use for your temperature monitoring needs

Primary Applications

3M™ Temperature Logger TL30 is recommended for recording temperatures during transportation and/or storage of these temperature-sensitive products:

- Fresh produce, fruit, and vegetables
- Frozen food items
- Seafood
- Meat and poultry
- Milk-based products
- Chemical products

3M™ Temperature Logger TL30V includes a certificate of accuracy for factory calibration and is recommended for recording temperatures during transportation and/or storage of these temperature-sensitive products:

- Pharmaceuticals
- Medical and biological products, and clinical samples
- Chemical products requiring regulatory documentation
- Other perishable products requiring validation documentation

Confidence in the data with TL30V

Each TL30V undergoes verification testing. A verification certificate can be downloaded from the product web page.

- Three-point temperature verification at -10 C, 10 C and 50 C.
- Verification in ISO 17025 laboratory accredited by A2LA, NIST Traceable
- Easy one-click reporting in read-only Excel format



TL30V certification label



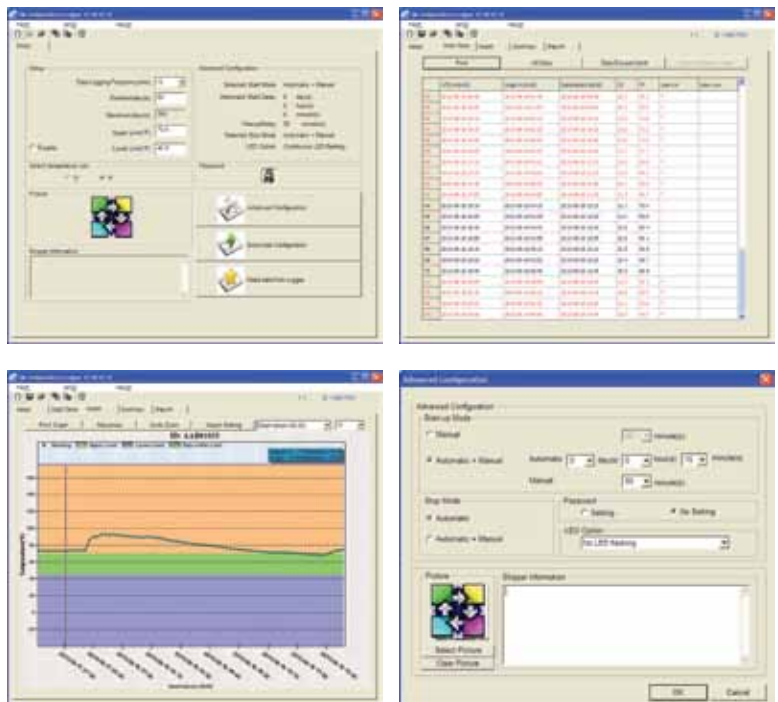
Track and Trace Solutions

3M Center,
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www.3m.com/temperaturelogger

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Typical Performance Properties

Temperature Range	-40°C (-40°F) to 80°C (176°F)
Temperature Accuracy	+/- 0.5°C (+/-0.9°F)
Temperature Resolution	0.1°C (0.3°F)
Memory Data Points	50,000
Data Logging Frequency	1 to 120 minutes
Auto Start-Up Delay	0 to 168 hours (0 to 7 days)
Manual Start-Up Delay	0 to 240 minutes (0 to 4 hours)
Range of Monitoring Time	1 to 360 days
Water Splash Resistance	NEMA 3R
Size	70 mm x 44 mm x 11 mm (2.8 in x 1.7 in x 0.4 in)
Weight	28 grams (0.99 oz.)



PC software is user-friendly for customization, functionality, and reporting. View time and temperature data as a graph or in a spreadsheet. Temperature monitor connects to software with a USB cable.

[Free software download at www.3m.com/temperaturelogger.](http://www.3m.com/temperaturelogger)

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