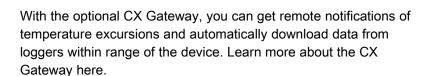# InTemp® CX502 Data Logger

InTemp Bluetooth Low Energy 90 Day Single-Use Temperature Data Logger (CX502)

The InTemp CX502 Bluetooth® Low Energy data logger is a single-use logger that records temperature data for up to 90 days. Designed for Cold Chain, CRT, and Frozen shipments, the CX502 is ideal for sea container, long haul, and parcel shipments.

Using the InTemp app on your mobile device, you can easily configure the CX502 with one of multiple preset configurations, or set up a custom configuration. The logger has a built-in alarm to alert you to excursions. And logger reports can be quickly downloaded to your phone or tablet and uploaded to an InTempConnect® account, where you can analyze and export data as needed.

With the optional CX Gateway, you can get remote notifications of temperature excursions and automatically download data from loggers within range of the device. Learn more about the CX Gateway here.

A 3-Point Certificate of Calibration, valid for one year from date of purchase, provides assurance that the data can be trusted when making important product-disposition decisions.

Supported Measurements:

Temperature

Key Advantages:

- Integrates with mobile and cloud platforms for a 21CFR Part 11 compliant solution
- Enables fast, remote data transfer; ideal for clinical logistics
- Eliminates need to open sealed containers to retrieve data
- Real-time alerts and automatic data downloads with optional CX Gateway device
- Shortens logger-handling times; no PC or cables required
- Ensures secure data via encrypted technology
- Meets GDP requirements for NIST traceable calibration

InTemp CX502 Data Logger Specifications

Logger

Logger Operating Range	-30° to 70°C (-22° to 158°F)
Radio Power	1 mW (0 dBm)
Transmission Range	Approximately 30.5 m (100 ft) line-of-sight
Wireless Data Standard	Bluetooth Low Energy (Bluetooth Smart)
Logging Rate	1 second to 18 hours
Battery	CR2032 (CX501) or CR2450 (CX502 and CX503) 3V lithium, not replaceable. Battery for CX501 and CX502 lasts for duration specified when logger is used within the 1-year shelf life. Battery life for the CX503 model is 1 year, typical with logging interval of 1 minute. Faster logging intervals, remaining connected with the InTemp app, excessive downloads, and paging may impact battery life.
Type	Single Use
Duration	90 Days
Shelf Life	Up to 1 year
Memory	14,000 measurements
Full Memory Download Time	Approximately 30 seconds; may take longer the farther the device is from the logger
Dimensions	6.9 x 4.5 x 1.1 cm (2.71 x 1.76 x 0.42 inches)
Weight	25.5 g (0.90 oz)
Environmental Rating	IP67
CE	The CE Marking identifies this product as complying with all relevant directives in the European Union (EU).

Temperature Sensor

Sensor Range	-30° to 70°C (-22° to 158°F)
Accuracy	±1.0°C from -30° to -5°C (±1.8°F from -22° to 23°F) ±0.5°C from -5° to 50°C (±0.9°F from 23° to 122°F) ±1.0°C from 50° to 70°C (±1.8°F from 122° to 158°F)
Resolution	0.04°C (0.072°F)

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