



InTemp® CX503 Data Logger

Bluetooth Low Energy 365 Day Multiple-Use Temperature

The InTemp CX503 Bluetooth® Low Energy data logger is a multiple-use logger that records temperature data for up to a year. Designed for Cold Chain, CRT, and Frozen shipments, the CX503 is ideal for closed-loop monitoring applications, as well as qualification testing and equipment validation.

Using the InTemp app on your mobile device, you can easily configure the CX503 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.

Key Advantages:

- Integrates with mobile and cloud platforms for a 21 CFR 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 CX503 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 | Multiple Use |
| Duration | Up to 1 year |
| 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) |