



InTemp CX502 Bluetooth 90 Day Single-Use Temperature Data Logger

Product Images



Short Description

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.

Description

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 analyse 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.

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 Features of the CX502

- 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.

Additional Information

Country of Manufacture	United States																																										
Brand	Onset InTemp																																										
Measurements	Temperature																																										
Typical applications	Cold Chain, Datalogging, Food Safety, Life Sciences, Medical, Pharmaceutical																																										
Explanation	<div><p>For full specifications for this product, please see the product manual under the Resources tab.</p><div>Logger<table><tr><td>Logger Operating Range</td><td>-30° to 70°C (-22° to 158°F)</td></tr><tr><td>Radio Power</td><td>1 mW (0 dBm)</td></tr><tr><td>Transmission Range</td><td>Approximately 30.5 m (100 ft) line-of-sight</td></tr><tr><td>Wireless Data Standard</td><td>Bluetooth Low Energy (Bluetooth Smart)</td></tr><tr><td>Logging Rate</td><td>1 second to 18 hours</td></tr><tr><td>Time Accuracy</td><td>±1 minute per month at 25°C (77°F)</td></tr><tr><td>Battery</td><td>CR2450 3V lithium, not replaceable. Battery for CX502 lasts for duration specified when logger is used within the 1-year shelf life. Faster logging intervals, remaining connected with the InTemp app, excessive downloads, and paging may impact battery life.</td></tr><tr><td>Type</td><td>Single Use</td></tr><tr><td>Duration</td><td>90 Days</td></tr><tr><td>Shelf Life</td><td>Up to 1 year</td></tr><tr><td>Memory</td><td>14,000 measurements</td></tr><tr><td>Full Memory Download Time</td><td>Approximately 30 seconds; may take longer the farther the device is from the logger</td></tr><tr><td>Dimensions</td><td>6.9 x 4.5 x 1.1 cm (2.71 x 1.76 x 0.42 inches)</td></tr><tr><td>Weight</td><td>25.5 g (0.90 oz)</td></tr><tr><td>Environmental Rating</td><td>IP67</td></tr><tr><td>CE</td><td>The CE Marking identifies this product as complying with all relevant directives in the European Union (EU).</td></tr></table></div><div>Temperature Sensor<table><tr><td>Sensor Range</td><td>-30° to 70°C (-22° to 158°F)</td></tr><tr><td>Accuracy</td><td>±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)</td></tr><tr><td>Resolution</td><td>0.04°C (0.072°F)</td></tr><tr><td>Drift</td><td><0.01°C (0.018°F) per year</td></tr><tr><td>Response Time</td><td>6 minutes typical to 90% in open air moving 1 m/s, unmounted</td></tr></table></div></div>	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	Time Accuracy	±1 minute per month at 25°C (77°F)	Battery	CR2450 3V lithium, not replaceable. Battery for CX502 lasts for duration specified when logger is used within the 1-year shelf life. 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).	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)	Drift	<0.01°C (0.018°F) per year	Response Time	6 minutes typical to 90% in open air moving 1 m/s, unmounted
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Batteries	CR2450																																										
Power	Battery only																																										

Additional Options

Optional Remote Cloud-based Access to Your Data	InTemp CX Internet Gateway (SKU: CX5000)
CX Gateway Service Plan Subscription - required with CX Internet Gateway	CX Gateway Service Plan Subscription (1 Year)