

InTemp® CX402-xxM Data Logger

Bluetooth Low Energy Temperature (with Probe)

InTemp® CX402-xxM (with Probe only) data loggers monitor temperatures in refrigerators, freezers, and other temperature-controlled environments to comply with global GDP requirements. The loggers communicate wirelessly via Bluetooth Low Energy to mobile devices. Using the InTemp app, you can easily view data, check logger status, set alarms, and create and share secure PDF reports for streamlined reporting and regulatory compliance. All loggers feature a built-in LCD display to view current and daily min and max temperatures, advanced audible and visual alarm capabilities for notification of temperature excursions, an internal sensor for ambient temperature monitoring, and a single-point NIST Certification of Calibration for both the logger body and probe.

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.

Models are available with a 2- or 4-meter external temperature probe for tracking actual refrigerator temperatures without Glycol buffers or freezer applications.



Key Advantages:

- Integrates with mobile and cloud platforms for a 21 CFR Part 11 compliant solution
- Easy-to-read display with current and daily min/max temperatures
- Bluetooth transmission of data and alarm states
- Logger setup and download of data in seconds – without a PC or cable
- Real-time alerts and automatic data downloads with optional CX Gateway device
- +/- 0.5C accuracy for reliable temperature readings
- Battery-powered to guard against local power loss
- NIST Certificate of Calibration

InTemp CX402-xxM Data Logger Specifications

Logger

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)
Logger Operating Range	-30° to 70°C (-22° to 158°F), 0 to 95% RH (non-condensing)
Logging Rate	1 second to 18 hours
Battery Type	Two AAA 1.5 V alkaline or lithium batteries, user-replaceable
Battery Life	1 year, typical with logging interval of 1 minute. Faster logging intervals, remaining connected with the InTemp app, excessive report generation, numerous audible alarms, and paging all impact battery life.
Memory	128 KB (84,650 measurements, maximum)
Full Memory Download Time	Approximately 60 seconds; may take longer the farther the device is from the logger
LCD	LCD is visible from 0° to 50°C (32° to 122°F); the LCD may react slowly or go blank in temperatures outside this range
Dimensions	9.4 x 4.5 x 2.59 cm (3.7 x 1.77 x 1.02 inches)
Weight	90.2 g (3.18 oz)
Environmental Rating	IP54
CE	The CE Marking identifies this product as complying with all relevant directives in the European Union (EU).

External Temperature Probe

Range	-40° to 100°C (-40° to 212°F)
Accuracy	±0.5°C from -15° to 80°C (±0.9°F from 5° to 176°F) ±1.0°C from -40° to -15°C (±1.8°F from -40° to 5°F) ±0.7°C from 80° to 100°C (±1.3°F from 176° to 212°F)
Resolution	0.024°C at 25°C (0.04°F at 77°F)
Cable Length	2 or 4 meter (6.56 or 13.12 feet) flat ribbon cable
NIST Calibration	Single point NIST calibration, probe and logger body

Ambient Temperature Sensor

Range	-30° to 70°C (-22° to 158°F)
Accuracy	±0.5°C from -15° to 70°C (±0.9°F from 5° to 158°F) ±1.0°C from -30° to -15°C (±1.8°F from -22° to 5°F)
Resolution	0.024°C at 25°C (0.04°F at 77°F)