



# InTemp CX402 Bluetooth Fridge Temperature Logger (With External Probe)

## Product Images



## Short Description

The InTemp CX402 (with external probe) data logger monitors temperatures in refrigerators, freezers and other temperature-controlled environments. The CX400 range of data loggers communicate wirelessly via Bluetooth Low Energy to mobile devices.

## Description

Used in conjunction with 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 data 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 an ISO 17025 (NIST) Certification of Calibration.

With the optional [CX Gateway device](#), you can get remote alert notifications of temperature excursions and automatically download data from loggers within range of the device.

This model is available with your choice of a 2 or 4 metre cable connected to either a sharp or blunt tip probe. The blunt tip probe is ideal for applications such as blood supplies monitoring and direct product monitoring.

## Features

- Easy-to-read display with current and daily min/max temperatures
- Audible and visual alarms
- Bluetooth transmission of data and alarm states
- Logger setup and download of data in seconds – without a PC or cable
- +/- 0.5C accuracy for reliable temperature readings
- Battery-powered to guard against local power loss
- Several Glycol bottle/probe-only options available
- Optional ISO 17025 compliant calibration service (NIST included)
- Perfect for monitoring vaccine storage conditions.

# Additional Information

Country of Manufacture	United States																																																				
Explanation	<p>To see the full specifications for this product, please see the Data Sheet found under the Resources tab.</p> <p><b>Logger</b></p> <table><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>Logger Operating Range</td><td>-30° to 70°C (-22° to 158°F), 0 to 95% RH (non-condensing)</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 Type</td><td>Two AAA 1.5 V alkaline or lithium batteries, user-replaceable</td></tr><tr><td>Battery Life</td><td>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.</td></tr><tr><td>Memory</td><td>128 KB (84,650 measurements, maximum)</td></tr><tr><td>Full Memory Download Time</td><td>Approximately 60 seconds; may take longer the farther the device is from the logger</td></tr><tr><td>LCD</td><td>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</td></tr><tr><td>Dimensions</td><td>9.4 x 4.5 x 2.59 cm (3.7 x 1.77 x 1.02 inches)</td></tr><tr><td>Weight</td><td>90.2 g (3.18 oz)</td></tr><tr><td>Environmental Rating</td><td>IP54</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> <p><b>External Temperature Probe</b></p> <table><tr><td>Range</td><td>-40° to 100°C (-40° to 212°F)</td></tr><tr><td>Accuracy</td><td>±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)</td></tr><tr><td>Resolution</td><td>0.024°C at 25°C (0.04°F at 77°F)</td></tr><tr><td>Drift</td><td>&lt;0.1°C (0.18°F) per year</td></tr><tr><td>Response Time</td><td>With 5 mL bottle: 10 minutes typical to 90% in air moving 1 m/s With 15 mL bottle: 20 minutes typical to 90% in air moving 1 m/s With 30 mL bottle: 25 minutes typical to 90% in air moving 1 m/s</td></tr><tr><td>Cable Length</td><td>2 or 4 meter (6.56 or 13.12 feet) flat ribbon cable</td></tr></table> <p><b>Ambient Temperature Sensor</b></p> <table><tr><td>Range</td><td>-30° to 70°C (-22° to 158°F)</td></tr><tr><td>Accuracy</td><td>±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)</td></tr><tr><td>Resolution</td><td>0.024°C at 25°C (0.04°F at 77°F)</td></tr><tr><td>Drift</td><td>&lt;0.1°C (0.18°F) per year</td></tr><tr><td>Response Time</td><td>15 minutes typical to 90% in air moving 1 m/s</td></tr></table>	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	Time Accuracy	±1 minute per month at 25°C (77°F)	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).	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)	Drift	<0.1°C (0.18°F) per year	Response Time	With 5 mL bottle: 10 minutes typical to 90% in air moving 1 m/s With 15 mL bottle: 20 minutes typical to 90% in air moving 1 m/s With 30 mL bottle: 25 minutes typical to 90% in air moving 1 m/s	Cable Length	2 or 4 meter (6.56 or 13.12 feet) flat ribbon cable	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)	Drift	<0.1°C (0.18°F) per year	Response Time	15 minutes typical to 90% in air moving 1 m/s
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																																																				
Time Accuracy	±1 minute per month at 25°C (77°F)																																																				
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).																																																				
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)																																																				
Drift	<0.1°C (0.18°F) per year																																																				
Response Time	With 5 mL bottle: 10 minutes typical to 90% in air moving 1 m/s With 15 mL bottle: 20 minutes typical to 90% in air moving 1 m/s With 30 mL bottle: 25 minutes typical to 90% in air moving 1 m/s																																																				
Cable Length	2 or 4 meter (6.56 or 13.12 feet) flat ribbon cable																																																				
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)																																																				
Drift	<0.1°C (0.18°F) per year																																																				
Response Time	15 minutes typical to 90% in air moving 1 m/s																																																				
Ideal For	Professional																																																				
Brand	Onset InTemp																																																				
Maximum Temperature	100°C																																																				
Tolerance	±0.5°C from -15° to 80°C																																																				
Battery type	2 x AAA (included)																																																				
Channel(s)	1																																																				
Sensor(s)	External Probe (Please select length)																																																				
Typical applications	Food Safety, Life Sciences, Pharmaceutical, Vaccine Storage																																																				
Measurements	Temperature																																																				

# Additional Options

Select Version	2 Metre Cable & Sharp Tip Probe
	4 Metre Cable & Sharp Tip Probe
	2 Metre Cable & Blunt Tip Probe
	4 Metre Cable & Blunt Tip Probe
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)