



# InTemp CX450 Bluetooth Temperature & Humidity Data Logger

## Product Images



## Short Description

The InTemp CX450 Temp/RH data logger monitors temperature and relative humidity in storage and transportation environments.

## Description

The logger uses Bluetooth Low Energy (BLE) technology to wirelessly communicate to mobile devices with the

free InTemp mobile app and/or the optional [InTemp CX5000 Internet Gateway Device](#) and send data to the free [InTempConnect cloud platform](#). The external sensor provides highly accurately temperature (-30°C to 70°C) and humidity (0% to 95%) readings.




The CX450 Temp/RH logger also features a built-in LCD display to view temperature and relative humidity readings, visual alarms and audible alarms, plus the ability to view minimum and maximum readings, without affecting logged data.

With the optional [InTemp CX5000 Gateway device](#), users can receive text or email notifications of temperature and/or humidity excursions, as well as automatic data downloads from loggers within range of the CX Gateway device.

## Key Features

- Easy-to-read display with current and daily min/max temperature and humidity readings
- Audible and visual alarms for temp, RH, and combined temp/RH
- Bluetooth transmission of data and alarm states
- + 0.5°C accuracy for reliable temperature readings from -30°C to 70°C
- + 3% accuracy for reliable RH readings from 0% to 90% (+ 3.5% accuracy for reliable RH readings greater than 90% at 25°C)
- Free InTemp mobile app to configure logger, view data, and access the free InTempConnect cloud software service
- Real-time alerts and automatic data downloads with optional [CX5000 Gateway device](#)
- Easy logger setup and download of data in seconds – without a PC or cable
- AAA battery-powered to guard against local power loss
- Optional ISO 17025 compliant calibration service (two-point NIST One Year Certificate of Calibration included).

# Additional Information

Country of Manufacture	United States	
Explanation	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)
	NIST Calibration	Two-point NIST calibration included
	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	178 KB (103,400 total measurements or 51,700 temp & RH paired measurements)
	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 5.6 x 2.59 cm (3.7 x 2.21 x 1.02 inches)
	Weight	90.2 g (3.18 oz)
	Environmental Rating	IP54
		The CE Marking identifies this product as complying with all relevant directives in the European Union (EU).
	Compliance marks	 
	Temperature Sensor	
	Range	-30° to 70°C (-22° to 158°F)
	Accuracy	±0.5°C from -30° to 70°C (±0.9°F from -22° to 158°F)
	Resolution	0.024°C at 25°C (0.04°F at 77°F)
	Drift	<0.1°C (0.18°F) per year
	RH Sensor	
	Range	0 to 95% (non-condensing)
	Accuracy	±3% from 0% to 90% and ±3.5% from greater than 90% typical at 25°C (77°F)
	Resolution	0.01%
	Drift	<1% per year typical
Ideal For	Professional	
Brand	Onset InTemp	
Battery type	2 x AAA (included)	
Typical applications	Cold Chain, Life Sciences, Pharmaceutical, Vaccine Storage	
Measurements	Humidity, Temperature	

# Additional Options

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