

InTemp[®] CX405 Data Logger

CX405 RTD Dry Ice

The InTemp CX405-RTD Dry Ice data logger is specifically designed for ultra-low temperature monitoring of vaccines and pharmaceuticals in storage and transportation environments. The logger uses Bluetooth Low Energy (BLE) technology to wirelessly communicate with the InTemp CX5000 Gateway and/or the free InTemp mobile app and send data to the free InTempConnect cloud platform. The CX405-RTD has a built-in 1.5 m external probe that can measure temperatures as low as -95°C (-139°F) and up to 50°C (122°F) with a high degree of accuracy. The device also has a protective sheath to prevent accidental cutting of the probe cable and includes a clip for secure mounting.

The CX405 Dry Ice data logger also features a built-in LCD display to view temperature readings, visual alarms (and audible alarms), and battery level – plus the ability to view and display the minimum and maximum readings.




With the addition of the InTemp CX5000 Gateway, users can get text or email notifications of temperature excursions, as well as automatic data downloads from loggers within range of the CX Gateway device.



Key Advantages:

- Two-point NIST Certificate of Calibration (probe only), good for one year
- Integrates with mobile and cloud platforms for a 21 CFR Part 11 compliant solution
- Easy logger setup and data download in seconds
- Advanced audible and visual alarm capabilities for notification of temperature excursions
- LCD display with current and daily min/max temperatures
- Protective, anti-cut cable sheath
- User-replaceable AAA batteries to guard against local power loss
- Built to FDA, USP, EU, and WHO standards
- 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

InTemp CX405 Data Logger Specifications

External Temperature Probe	
Range	-95° to 50°C (-139° to 122°F)
Accuracy	±1.5°C from -95° to -40°C (±2.7°F from -139° to -40°F) ±1.0°C from -40° to -10°C (±1.8°F from -40° to 14°F) ±0.5°C from -10° to 50°C (±0.9°F from -14° to 122°F)
Resolution	0.05°C at 25°C (0.09°F at 77°F)
NIST Calibration	Two-point NIST calibration, probe only
Cable Length	1.5 m (4.92 ft)
Probe Dimensions	Food-grade stainless steel probe with blunt tip, 31.75 mm (1.25 inches) long, 4.78 mm (0.188 inches) diameter
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)
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
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 app, excessive report generation, numerous audible alarms, and paging all impact battery life.
Memory	128 KB (75,245 total measurements or 37,622 probe & internal paired measurements)
Full Memory Download TimeApproximately 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
 The CE Marking identifies this product as complying with all relevant directives in the European Union (EU).	
Compliance Marks	 

Passed RTCA DO160G, part 21H