InTemp CX405-RTD Ultra-low Temperature Freezer Data Logger (With External Probe)

Product Images

Short Description

The InTemp Ultra-low Temperature Freezer Data Logger is specifically designed for monitoring vaccines at ultra-low temperature between -80°C and -60°C in freezer 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 CX405-RTD has a built-in 1.5 m external probe that can measure temperatures as low as -95°C and up to 50°C 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 current and daily min and max temperatures, advanced audible and visual alarm capabilities for notification of temperature excursions, and an internal sensor for ambient temperature monitoring.

With the optional CX5000 Internet Gateway device, 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 Features

- Two-point NIST Certificate of Calibration (probe only), valid 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
- Easy-to-read 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 view data, check logger status, set alarms, and create and share secure PDF reports
- Real-time alerts and automatic data downloads with optional CX5000 Internet Gateway device
- Perfect for monitoring vaccine storage conditions.

Additional Information

Country of Manufacture	United States	
Explanation	**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)
	Drift	<0.1°C (0.18°F) per year
	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)
	Drift	<0.1°C (0.18°F) per year
	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 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
		The CE Marking identifies this product as complying with all relevant directives in the European Union (EU).
	Compliance Marks Passed RTCA DO160G, part 21H	
Contents	• InTemp CX405-RTD Dry Ice Data Logger • Two AAA 1.5 alkaline batteries • Battery door and screw • NIST Certificate of Calibration	
Ideal For	Professional	
Brand	Onset InTemp	
Battery type	2 x AAA	
Channel(s)	1	
Sensor(s)	External Tempetature Probe and Internal Temperature Sensor	
New Typical Applications Filter	Cold Chain, Laboratory, Life Sciences, Medical, Pharmaceutical, Vaccine Storage	
Measurements (Industrial) Filter	Temperature	

https://www.thermometerspecialist.co.uk/dry-ice-vaccine-temperature-data-logger-intemp-cx405-rtd 14/05/2024

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)