

BeaconX-T

Device Data sheet

Version 1.0.0



BeaconX - T Datasheet

BeaconX-T wireless sensor devices are seamlessly integrated into the Stratosfy Equipment Operations Platform, a user-friendly and automated temperature monitoring solution for businesses like restaurants, convenience stores, and groceries. This device allows temperature data to be easily collected, viewed and managed through the intuitive Stratosfy web dashboard and mobile application, available on iOS and Android.

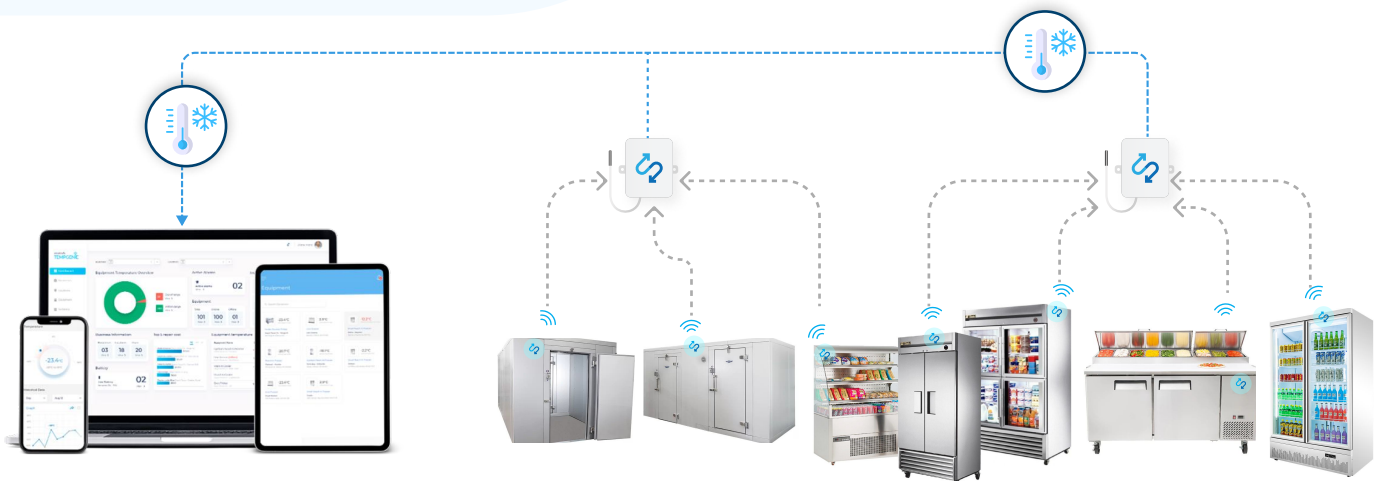
The BeaconX-T wireless sensor device measures surface temperature data via the temperature probe connected to it. It transmits Bluetooth identity and temperature measurement messages via the built-in Bluetooth radio. Its measurement range is -55°C to 125°C (-67°F to 257°F), and its communication range is 15 feet.

BeaconX-T devices are typically meant to be installed in different refrigeration equipment, such as walk-in freezers, walk-in coolers, glass-door reach-in freezers, line fridges, line coolers, glass-door reach-in coolers, under-counter fridges, under-counter freezers, bar fridges, display coolers, display counter freezers, bar fridges, display coolers, display fridges, and meat fridges.

Technology Highlights

- ❏ Bluetooth 5 ready multi-protocol radio based device.
- ❏ High accuracy temperature sensor based device.
- ❏ Fully factory calibrated device.
- ❏ Supports iBeacon and Stratosfy Telemetry(proprietary) packets concurrently.
- ❏ OTA support from Mobile application
- ❏ Proprietary technology

The BeaconX-T device runs Stratosfy's specially designed firmware. It has a built-in surface temperature sensor (via temperature probe) to interface with Stratosfy gateway devices to relay temperature measurements to the Stratosfy cloud. Users of the Stratosfy platform can view this measurement data via a web dashboard or mobile application.



Technical Specifications

Model Number : STSFYS001

Part Number : STSFYBT001

RF Specifications

Standard Protocol	Bluetooth 5
Frequency band	2.4GHz
Number of Channels	3 Primary, 37 Secondary
Output power	0dBm (default power upon shipping), Programmable -40dBm to +8dBm
Modulation	GFSK
Antenna / Gain	Chip antenna, 1.1 dBi
Mode of Operation	half-duplex
Data Rates	1 Mbit/s

Features

BLE Application Supported	iBeaconX, Stratosfy Telemetry
Processor Type	32-bit ARM Cortex-M4F @ 64MHz
Memory	1 MB Flash
Sensors	Surface temperature sensor probe - (Range: -55°C to +125°C, Accuracy: ±0.5 °C: -10 °C to +85 °C; ±1 °C: -30 °C to +100 °C; ±2 °C: -55 °C to +125 °C)

Physical

Dimensions in mm (Length x Width x Height)	Bluetooth 5
Mounting Method	Wall Mounted with Screw or 3M Double-Sided Adhesive, Hanging method with Zip tie
Housing Material	ABS Plastic for Housing, Rubber for Gasket
Color	White
Weight	54 grams

Battery

Type	3V / 3500mAh – 2 AA Lithium batteries Lifetime (depending on utilization) 2-3 years expected, dependent upon environmental operating conditions, device configuration, communication frequency operating conditions, device configuration, communication frequency
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Chemical and Mechanical Resistance

Water	Water Resistant, IP65
Withstands Exposure To	UV Resistant, Impact Resistant

Technical Specifications

Thermal	
Storage Temperature	32°F to 86°F (0°C to +30°C)
Operating Temperature	-4°F to +140°F (-20°C to +60°C)
Other	
Standards	FCC / IC
Warranty	1 year

Accessories

	<p>Rated Voltage : 3V DC (2*1.5V batteries)</p> <p>Capacity : 3500mAh</p> <p>Type : Lithium Batteries</p> <p>Dimensions : 50.5 × 14.5 mm</p> <p>Replaceable battery Replacement Energizer Lithium AA batteries - 3V / 3500 mAh capacity, 2 AA Energizer Lithium batteries</p>
	<p>Velcro tape/3M tape 3M Velcro hook and loop dual lock tape 1 inch squares</p>
	<p>Temperature probe</p> <p>Range: -55°C to +125°C, Accuracy: ±0.5 °C: -10 °C to +85 °C; ±1 °C: -30 °C to +100 °C; ±2°C: -55 °C to +125 °C</p> <p>Length: 1 m / 39.37 in, 2 m / 78.7 in, 5 m / 196.85 in Diameter: 6 mm / 0.24 in</p>