

# TREK-120

## Wireless Cold Chain Temperature/ Humidity Sensor

Preliminary



### Features

- Supports temperature/humidity/free fall detection
- Wireless data transmissions via NFC and LoRa technology
- Sensor configurable to alarm for real-time management
- Easy, simple installation in diverse refrigerated vehicles
- IP54 rated for protection against water and dust ingress
- Low power consumption for at least 3 years battery life
- Supports IoT cloud services for centralized and real-time exception management

### Specifications

Temperature	Measurement Range	-20 ~ 65 °C (-4 ~ 149 °F)
	Accuracy Range	±0.5 °C from -10 ~ 20 °C, ±1 °C from -20 ~ 65°C (±32.9 °F from 14 ~ 68 °F, ±33.8 °F from -4 ~ 149 °F)
	Resolution	0.1 °C (32.18 °F)
Humidity	Measurement Range	0 ~ 100% RH
	Accuracy Range	0 ~ 80% RH ±5%, 80 ~ 100% RH ±10%
3-Axis Accelerometer		ST IIS2DH with free fall detection
Data Storage Capacity		2000 time/temperature + humidity values, 15 time/free fall values
LED Indicators		1 x Power status 1 x Alarm
Buttons		1 x Start button
Battery		3.6V/2400mAh wide-temperature (-20 ~ 70 °C) battery
Data Transmissions		NFC only and NFC + LoRa
Mechanical	Mount Options	2 x Screw holes for mounting
	Dimensions (W x D x H)	123.97 x 65.21 x 23.14 mm (4.88 x 2.56 x 0.91 mm)
	Weight	108 g (0.23 lb)
Environment	Operating Temperature	-20 ~ 65 °C (-4 ~ 149 °F)
	Storage Temperature	-30 ~ 80 °C (-22 ~ 176 °F)
	IP Rating	IP65
	Drop Tolerance	4 ft. drop onto concrete
	Certifications	CE/FCC

### Ordering Information

Part Number	Description
TREK-120-NFC00E	Cold chain NFC sensor
TREK-120-S1G00E	Cold chain LoRa and NFC sensor
TBC	LoRa gateway USB dongle
TBC	3.6V 2400mAH wide-temperature battery
TBC	Cold chain NFC reader

