

TxH

LoRaWAN Temperature and Humidity Sensor

The TxH is a digital temperature and humidity sensor for both indoor and outdoor environments. The TxH can be rapidly deployed to customers, with a 10-year battery life and easy setup and installation. The TxH uses an SHTC3 high accuracy temperature/humidity sensor making the device suitable for monitoring food, pharmaceuticals, and other valuable items in a cold environment.



Applications



Pharmacy medication refrigeration



Grocery store refrigeration and cold room storage



Restaurant food storage



Temperature monitoring for commercial property

Features

- High accuracy SHTC3 digital temperature/humidity sensor
- Optional digital averaging of values to prevent temperature spikes (from opening a refrigerator door for example)
- Programmable alarm thresholds to report out-of-range temperature and humidity in near real-time.
- Magnet and reed switch for turning sensor on/off
- Waterproof vents to allow airflow for humidity sensor, while maintaining waterproof seal.

Installation

The TxH has magnets on the back of the enclosure for easy installation. Simply place on a magnetic surface! The TxH ships with metallic tape for installation on non-magnet surfaces. The TxH will stick to the tape, allowing for easy removal if necessary. The TxH is powered on and off using a magnet and comes with a built-in battery which provides up to 10 years battery life.

Connectivity

LoRaWAN	Version 1.0.3A
LoRaWAN Regions	US915, EU868
Max Transmit Power	20dBm (US915), 16 dBm (EU868)
Range	Up to 2km city, 30km line of sight

Electric

Battery	3V 2/3A Li-MnO ₂
Battery Life	Up to 10 years*
Transmit Current	120 mA (max)
Sleep Current	3 uA

*1 hour transmit interval, 60 second measurement interval, SF10, 20dBm

Physical/Mechanical Design

Dimensions	71 x 36 x 29 mm
Weight	84g
IP Rating	IP65
Operating Temperature	-40°C to +60°C

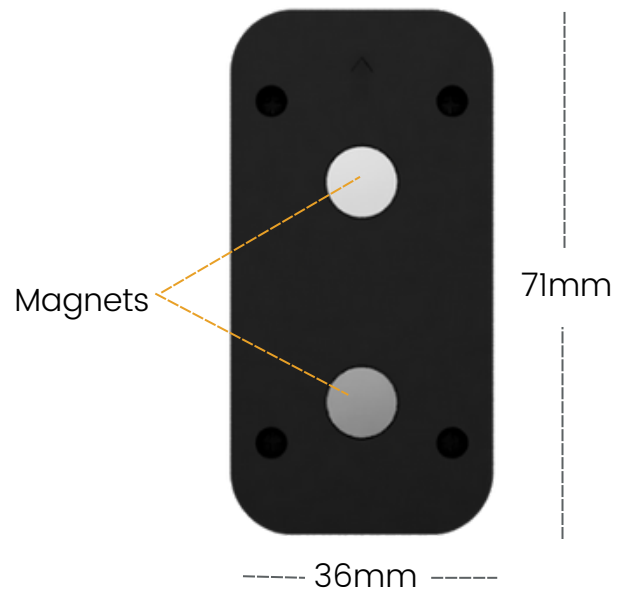
Sensors

Temperature Accuracy	Up to 0.2°C
Humidity Accuracy	Up to 2%

Certifications

Compliance	FCC IC CE
Temperature Accuracy	ISO 17025

Back View



Side View

