# CORIS
## MONITORING



# TH-D
# Temperature &
# Humidity sensor

The CORIS TH-D Temperature & Humidity sensor is a long range wireless sensor. It includes a built-in Temperature & Humidity sensor and has a USB-C port to attach optional external sensors (temperature, light, dry contact).

The TH-D takes readings every 5 minutes (this interval can be adjusted if desired) and transmits the sensor readings to the local CORIS Gateway using LoRaWan wireless transmission.  LoRaWan provides ultra-long range spread spectrum communication and high interference immunity, allowing the signal to pass through multiple floors and walls inside a building.  The TH-D is used for monitoring high value items such as freezers, refrigerators, alarm ports on various devices, light levels where animals are kept, ambient temperature and humidity in labs, offices and in construction sites. The TH-D has a built-in 2400mAh non-chargeable battery which can be used for up to 10 years and includes an internal datalog memory to record up to 3200 sensor readings when it cannot transmit readings to a Gateway, or when the Gateway cannot reach the CORIS servers in the cloud.

> The TH-D is available in all global frequency bands: EU433, CN470, EU868, IN865.

## Features

- ✓ Wall mountable
- ✓ LoRa WAN Class A protocol
- ✓ Remote configure via LoRaWAN Downlink
- ✓ Built-in 2400mAh battery for over 10 year use

- ✓ Built-in temperature & humidity sensor
- ✓ Optional external sensors
- ✓ Tri-color LED to indicate status
- ✓ 3200 set sensor record with time stamp

## Sensor Specs

### Built-in Temperature Sensor
- Range: -40 ~ +80 ℃
- Accuracy: ± 0.3℃
- Resolution: 0.01℃

### Built-in Humidity Sensor
- Range: 0 ~ 99.9% RH
- Accuracy: ± 3%RH (10 ~ 90%RH)
- Resolution: 0.04% RH
- Response Time: < 5s

### External Temperature Sensor
- Resolution: 0.0625% ℃
- Max ± 0.5 ℃ accuracy from -10 to 85 ℃
- Max ± 2 ℃ accuracy from -55 to +125 ℃
- Operating Range: -55 ℃ ~ 125 ℃

### Working Condition
- Operation Temperature: -40 ~ 80 ℃
- Operation Humidity: 0 ~ 99.9% RH (no dew)
- Storage Temperature: -10 ~ 45 ℃

**Have questions? Please email us at info@corismonitoring.com**

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