SENSITECH T11013320 Sensor User Manual

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Introduction

Purpose
This document describes the usage of a T11013320 (CTM Remote Sensor) device.

Scope
The intended audience is a valued customer.

Description

- The T11013320 is a sub-gigahertz environmental data logger designed to provide monitoring capabilities in mobile and stationary use cases.
- The following is a brief summary of its features:
    1. 868/915 MHz radio communication

2. Internal battery
3. Temperature Sensor
4. Humidity Sensor
5. Light Sensor
6. User Interface

Manufacturer Information

- **Company Name:** SENSITECH Inc.
- **Address:** 800 Cummings Center, Beverly, MA USA

Importer Information

- **Company Name:** SENSITECH Inc.
- **Address:** 800 Cummings Center, Beverly, MA USA

Radio Frequency Characteristics

1. **Operating Frequencies**
    1. **FCC:** 902-928 MHz
    2. **CE:** 868MHZ
2. **TRP/TIS**
    - **Maximum Conducted TRP:** +15dBm
    - **Minimum Conducted TIS:** -105dBm

Physical Appearance

User Interface

The user interface consists of the following:

1. Three LEDs (red, green, blue)
2. One button

LEDs

- The LEDs are intended to convey the end user's status quickly and easily. The user can immediately know the unit's current status during startup and operation.
- The LEDs will turn on for five seconds due to a button press.

Status

- During startup, the blue LED on the status group will blink rapidly.
- Once it has completed its startup tests, the LED will indicate the following:

Green	Registered
Blue	1 blink, Running, not registered 2 blinks, not started 4 blinks, not configured

Button
There is one button on the device that changes behavior based on the state the device is in:

1. **Customer Ready –** this is the state the device is in when shipped to a customer, holding the button will start the device.
2. **Run –** this is the state that the device is in while running, pressing the button during this state will illuminate the LEDs for five seconds.

Using the Device

- The usage of the device is intended to be simple and transparent to a customer's process.
- To start a device, press the button for > 1 second.
- Once started, ensure no LEDs are red. If all LEDs are green, then that means the system is in good health, the cellular connection is in good coverage and stable, and at least one sensor is communicating with the gateway.

Software

This unit reports data over the cellular network. This data is accessible via several web-based platforms that target various industries. Please contact customer support for more information.

Disclaimers

Note: The sections on FCC, IC, CE, and NOM will not apply until the regulatory testing is complete.

- RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS
- Do not dispose battery along with household waste. Do not dispose in a fire or hot oven, mechanically crush or cut the battery. Doing so can result in an explosion.
- There are no user-serviceable parts inside, the battery cannot be replaced by the end user, and this will result in damaging the device.
- To comply with FCC/IC RF exposure limits for general population / uncontrolled exposure, the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.
- Do not place the device in an environment greater than 70C or at an altitude higher than 30,000 feet.

FCC

This equipment has been tested and found to comply with the limits for a Class B digital device, under part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a

residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used following the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

1. Reorient or relocate the device.
2. Increase the separation between the equipment and the device.
3. Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
4. Consult the dealer for help.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: 1) This device may not cause harmful interference, and 2) This device must accept any interference received, including interference that may cause undesired operation.
MODIFICATION: Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the device.
FCC RF Radiation Exposure Statement Caution: To maintain compliance with the FCC's RF exposure guidelines, place the product at least 20cm from nearby persons.

IC

- This device complies with Industry Canada RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.
- This equipment should be installed and operated with a minimum distance of 20cm between the radiator & your body.

CE

Hereby, Sensitech declares… Tracking Device is in compliance with Directive 2014/53/EU. The full text of the EU Declaration of conformity is available upon request.

Documents / Resources

	SENSITECH T11013320 Sensor [pdf] User Manual SRMT11013320, T11013320 Sensor, T11013320, Sensor

References

- User Manual