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Sensitech TTGEO X Air Temperature Tracker Non Lithium

Specifications:

- **Model Variants:** TTGEO X, TTGEO XE, TTGEO XP, TTGEO XEP
- **Tracking Device Type:** LTE-M/2G GSM Quad band
- **Primary Function:** Real-time position monitoring with temperature and humidity tracking
- **Features:**
  - Cellular/Wi-Fi Location
  - Internal Battery
  - Accelerometer (optional)
  - Temperature Sensor
  - Humidity Sensor
  - Light Sensor
  - Pressure Sensor (optional)
  - BLE for secondary download
  - Dry Ice Probe (optional)
  - User Interface

Product Usage Instructions

Physical Appearance

The device has a user interface consisting of an LCD screen and buttons for interaction.

Using the Device

1. **Starting the Device:** Follow the manufacturer's instructions to power on the device.
2. **Stopping the Device:** To turn off the device,follow the provided guidelines.
3. **Secondary Download:** Use the BLE feature for secondary data download as needed.

Software

Refer to the software documentation provided by the manufacturer for details on software usage.

Disclaimers

Check FCC and IC regulations for compliance with pending certifications.

MODELS

- TTGEO X, Air Temperature Tracker Non-Lithium (T11013210)
- TTGEO XE, Air Temperature Tracker, Extended (T11013220)
- TTGEO XP, Air Probe Temperature Tracker, Non-Lithium (T11013230)
- TTGEO XEP, Air Probe Temperature Tracker, Extended (T11013240)

NOTICE OF PROPRIETARY PROPERTY

REVISION HISTORY:

REV	DESCRIPTION	DWN	APVD	DATE
1	Initial Release	JZL	TNS	03MAY23
2	Update with BLE/WIFI Info	JZL	TNS	04MAYG23
3	Deleted Importer words	MVM	MVM	16AUG23
4	Updated :	MVM	MVM	19SEP23
	Added Model numbers on the top page			
	Updated the TIS /TRP to passed			
	FCC/CE/IC – deleted pending			
	Updated Applicant Name and Manufacturing site			
	Updated Operating frequencies of BG95 per data sheet			

	Updated caution notice under Clause 5 – Disclaimers			
5	Added FCC and ISED Bands only under 1.4.1 a	MVM	MVM	05OCT23

Introduction

Purpose

This document describes the usage of a TEMPTALE GEO X, XE and TEMPTALE GEO XP/XEP devices.

Scope

The intended audience is a valued customer.

Description

The Devices are a LTE-M/2G GSM Quad band tracking device, and sensor data logger designed for the transportation industry. It is primarily intended to be used as a real time position-monitoring device, which will also produce accurate temperature and humidity. Specific variants of the device also uses various sensors to detect when the aircraft has taken off and when it has landed to disable/enable the cellular modem.

The following is a brief summary of its features:

1. LTE-M/2G GSM Quad Band
2. Cellular/Wi-Fi Location
3. Internal battery
4. Accelerometer (optional)
5. Temperature Sensor
6. Humidity Sensor
7. Light Sensor
8. Pressure Sensor (optional)
9. BLE for secondary download
10. Dry Ice Probe (optional)
11. User Interface

Applicant Information

- Company Name: Sensitech Inc
- Address : 800 Cummings Center # 258X, Beverly, MA 01915

Manufacturer Information

- Company Name: Team Precision Public Company Limited in behalf ot Sensitech Inc
- Address: 198 Moo 13, Suwansom Rd. Dong-Khee-Lek, Amphur Muang Prachinburri 25000, Thailand

Radio Frequency Characteristics

1. Operating Frequencies
   - Cat M1:
     B1/B2/B3/B4/B5/B8/
     B12/B13/B18/B19/B20/
     B25/B26/B27/B28/B66/B85
   - GSM: GSM850/900/1800/1900
   - WIFI/BLE: 2.4 GHz
   - a.) FCC/ISED Band ONLY are listed BELOW:
     - GSM: GSM850/1900
     - LTE CAT-M1: B2/B4/B5/B12/B13/B25/B26/B66/B85 Wi-Fi 2.4GHz/BLE
2. TRP/TIS
   - Cellular Maximum Conducted TRP: PASSED
   - Cellular Minimum Conducted TIS: PASSED
   - As Per Official REPORT: TEOT2306000419EP

Physical Appearance
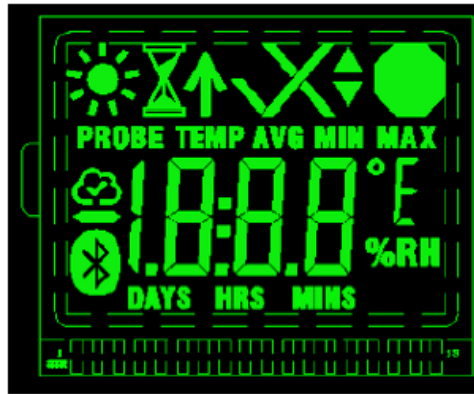
User Interface

The user interface consists of the following:

1. Segmented LCD
2. Two buttons(Start/Stop)

LCD

1. There is a LCD on the device:

2. Buttons

   There are two buttons on the device:

   1. Start – a configurable press delay is added, usually configured to be held for three second before it starts.
   2. Stop – a configurable press delay is added, usually configured to be held for three second before it stops.

Using the Device

1. Starting the device:

   To start the device, press the START button. If the Start Key feature is enabled, the START button must be held down for 3 seconds. The device may only be started from sleep mode.

2. Stopping the device:

   To stop the device, press the START button. If the Stop Key feature is enabled, the START button must be held down for 5 seconds to stop.

3. Secondary Download / BLE Functionality

   BLE is used once the device enters the stopped state. To download the device data perform the following:

   1. Press and Hold the Start/Stop Button for 10 seconds
   2. The BLE Icon will display on the LCD
   3. Open TempTale Mobile App
   4. Search the monitor by serial number
   5. Press the download icon

4. WIFI Functionality

   Wi-Fi is used while the device is started and in the run state. Wifi is during reporting intervals as a "Sniffer" or Passive scanning to scan for nearby AP's (Access Points). Sensitech Software then performs location trilateration to get a fix point. The Wi-Fi capability is limited to this functionality/ use only and will not attempt connect to a Wi-Fi network.

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

- Risk of Fire Hazard if battery is not charged in accordance with manufacturer's instruction.
- 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.
- There are no user serviceable parts inside, battery cannot be replaced by the end user, and will result in damaging 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 as per RSS102 requirements

FCC

Federal Communications Commission (FCC) Statement

15.21
You are cautioned that changes or modifications not expressly approved by the part responsible for compliance could void the user's authority to operate the equipment.

15.105(b)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to 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 in accordance with 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:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

15.19
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 of the device.

IC

1. Canadian Notice
   This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:
   1. This device may not cause interference.
   2. This device must accept any interference, including interference that may cause undesired operation of the device.

FAQ

Q: How do I charge the internal battery of the device?

A: The internal battery can be charged using the provided charger. Follow the charging instructions in the user manual.

Q: Can I use the device without enabling all optional sensors?

A: Yes, you can use the device without enabling all optional sensors. The device will function with its primary features even if optional sensors are not activated.

Documents / Resources

	[Sensitech TTGEO X Air Temperature Tracker Non Lithium](#) [[pdf](#)] User Manual T11013210, T11013220, T11013230, T11013240, TTGEO X Air Temperature Tracker Non Lithium, TTGEO X, Air Temperature Tracker Non Lithium, Tracker Non Lithium, Non Lithium, Lithium

References

- [User Manual](#)

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