



# BeeSecure

ASSET TRACKING | RURAL SECURITY | REMOTE MONITORING

## LoRaWAN “Oyster” Tracker Getting Started

[app.beesecure.ca](https://app.beesecure.ca)



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## Part A: Account Activation

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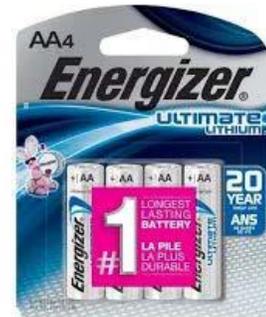
Please see the BeeSecure Setup Guide at <LINK-HERE> to setup your account on [app.beesecure.ca](http://app.beesecure.ca).

## Part B: Power on your Tracker

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### Step 1: Battery Selection

- i) The tracker uses three AA **Lithium** batteries which can be bought at your local hardware store. Using normal Alkaline batteries will result in poor battery life.
- ii) For the longest battery life or operation in extreme cold temperatures, you must use **Energizer Ultimate Lithium** batteries.



### Step 2: Insert the Batteries

- i) Use all new batteries at the same time. **Never** mix new and old batteries!
- ii) Insert the batteries into the Tracker. Make sure they are put in the **correct way!** Putting the batteries in backwards can damage the tracker.
- iii) The batteries have a (+) and (-) on either end which must match the (+) and (-) labeled inside the battery compartment in the tracker.
- iv) The red light on the tracker should start to **flash** once you put in the batteries. If it doesn't, take them out and wait a few minutes before putting them in again. Sometimes there is residual charge that must drain before the device resets.

### Step 3: First Time Connecting

- i) When you put in the batteries, the red light on the tracker will start to flash. It will continue to flash until it gets a **GPS** fix and sends the data through a **LoRaWAN Gateway** to the **BeeSecure** app.
- ii) Make sure the tracker has a **good view** of the sky so it can get its first GPS fix, and is within range of a **LoRaWAN gateway**.

- iii) The tracker gets the **best** GPS reception when orientated with the side with the **screws faced down**.
- iv) Once it gets a GPS fix and sends the data to the app, the red light will **stop** flashing.
- v) If it can't get a GPS fix or can't connect to a LoRaWAN Gateway (weak LoRaWAN signal), this process will time out after **10 minutes**, and will start again the next time the tracker moves.

## Help

If the tracker can't get LoRaWAN reception and isn't sending your location to the BeeSecure app, make sure the tracker has an **unobstructed view** of a **LoRaWAN gateway** and has clear view of the **sky**. If metal or concrete is between the tracker and gateway, the signal range will be reduced.

## Part C: Closing and Opening the Housing

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- i) Ensure the **silicon seal** on the enclosure is in good condition
- ii) Close the housing, and gently squeeze it shut. Foam on the lid will compress against the batteries, holding them firmly in place.
- iii) **Tighten** the 6 screws to a uniform tightness. On the first assembly, the screws may be quite stiff



## Part D: Device Operation

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- i) When stationary, the tracker will **report** its GPS coordinates and battery status once every **24 hours**.

If the tracker is in a location with poor GPS reception such as **indoors**, the location may be **inaccurate**, and you may experience **reduced** battery life.

- ii) When the tracker is **bumped** or starts to **move**, it will send its location information to the app once every **30 seconds**. The red light will not flash when it moves.

- iii) If the tracker can't get a GPS fix, it sends a message to the BeeSecure app only once every 3 minutes.

- iv) A **low** battery alert will appear in the BeeSecure app if the battery is low. Note that extreme cold temperatures or the use of incorrect types of batteries could set off this alert prematurely.