

## Description

The micro tracker from *Smart Box & GeoPortal* records the location of workers and your organization's most valuable assets such as vehicles, containers, livestock and much more. The tracker communicates the geospatial information through our portal with maps and an alert system. It has several geolocation techniques to achieve the best efficiency between precision and autonomy.

## Operation

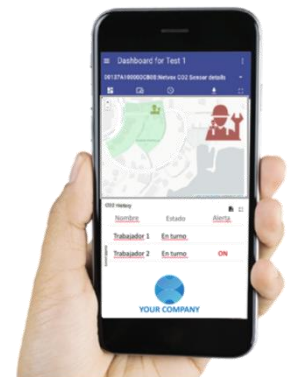
The micro tracker is multimodal with sensors combining the geolocation technologies of GPS, Low-power GPS, WiFi Sniffing, and BLE (Bluetooth).

The tracker performs fixes (readings of coordinates) at set intervals and reports the data to the portal, where the information is processed to show the location of the tracked assets on a map. The device alerts users if an asset leaves a defined area (geofence). The geospatial data is stored for analysis.

## Main Features

- Uses LoRaWAN technology for connectivity
- Range of the wireless network: 5km
- RF communication: 915Mhz
- Autonomy: 3 days to 10 months based of the fix interval and the geolocation technology
- Accuracy: 5 to 50 meters based on the geolocation technology
- Extra measurements for temperature y battery level
- Easy to install and maintain

LoRaWAN™



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# Specificacions

Physical configuration	
Weight	21 g with battery
Size	59 x 34 x 13 mm
Battery	Rechargeable lithium 3.7V 0.45Ah
Cable for recharging	Standard micro USB 5V
Protection	IP65
Operating temperature	-10 – 55 °C
Recharging temperature	0 – 45 °C
Humidity temperature	5-95% RH
Max. Storage time	6 months
Fix interval	Configurable
Uplink interval	Configurable
Accuracy	
GPS	10 – 20 meters
Low Power GPS	15 – 30 meters
WiFi Sniffing	20 – 50 meters
BLE (Bluetooth)	5 – 15 meters
Estimated autonomy	
1 WiFi Sniffing / minute	3 days
1 GPS / hour	2 – 4 weeks
1 Low Power GPS / hour	3 – 6 months
1 WiFi Sniffing / hour	5 months
Standby mode	10 months



## Geolocation Technologies



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