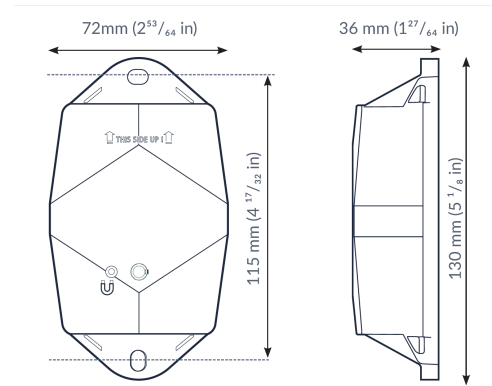


The rugged low-power tracker with long battery life with NB-IoT and LTE-M connectivity and guaranteed data recovery. The tracker provides general localization, zone and high precision. The tracker comes with an onboard temperature sensor and shock detection. Compatible with multiple external environmental sensors. The tracker firmware can be upgraded over the air.

-  GNSS
-  Wi-Fi scanning
-  Bluetooth geobeacon for zone precision
-  Quuppa tested for high precision
-  NB-IoT
-  LTE-M
-  Europe and North America
-  Data recovery
-  IP69K & IP68
-  IK 09
-  Flame retardant



130×72×36 mm
212g (7.6 oz)

Connectivity

NB-IoT and LTE-M

- Energy efficient transceiver
- Internal omnidirectional antenna
- Bi-directional communication
- NB-IoT and LTE-M bands: Europe/North America
- Data recovery
- OTA firmware upgrade (NB-IoT or LTE-M)

Bluetooth Low Energy (BLE)

Bluetooth Low Energy 5.0

Geolocation

GNSS

Multi GNSS constellation chipset (GPS+GALILEO)

Wi-Fi scanning

- Wi-Fi based geolocation
- Wi-Fi 2.4 GHz

Connectivity plan

- TRACK 1105 comes with the Extended connectivity plan

BLE

- Sensolus proximity beacon detection
- Detectable by zone and high precision anchors

Sensing

Internal

- Activity monitoring
- Orientation monitoring
- Virtual tamper detection
- Temperature monitoring
 - range: -20°C till 60°C (-4°F to 140°F)
 - typical accuracy: +/- 0.25°C (+/- 0.45°F)
 - worst case accuracy: +/- 1°C (+/- 1.8°F)
- Configurable shock detection

Environmental BLE sensors

- Temperature, humidity
- Fill level, contact, magnet
- Other BLE sensors can be added

Activation and mounting

- Activation and mounting
- Activation manual
- Holes 7x9mm ($\frac{9}{32} \times \frac{23}{64}$ in) for screws or rivets. 115 mm ($4\frac{17}{32}$ in) distance between the centers of the mounting holes.
- Instructions for mounting the device are available in the Sensolus documentation center.

Mechanics & Design

Antennas

All antennas are internal

Size

130x72x36 mm
($5\frac{1}{8} \times 2\frac{53}{64} \times 1\frac{27}{64}$ in)

Weight

212 gram (7.6 oz)

Color

White

Water & dust resistance

IP68 & IP69K

Impact resistance

IK09

Drop shock and vibration

EN 60068

Operating temperature

-20°C to 60°C
(-4°F to 140°F)*

The specifics regarding operational temperature are contingent upon the application, installation circumstances, and environmental factors such as sunlight exposure. For further information, please reach out to Sensolus. Battery life can be affected when devices function for extended periods at the extremes of this range.

Casing

- Shell: PBT + PC Cover: PBT GF30% + TPE
- Flame retardant
- UV-stabilized

Battery

Standard 3 cell

- User replaceable battery pack (Li-SoCl₂) 10800 mAh
- 2.94 gram (0.1037oz) lithium

Certifications

Regulatory

- CE
- FCC
- IC

Environmental

Drop shock in progress

Bluetooth 5.0

Declaration ID D068598

Electrical safety

EN 62368-1

User Interaction

Device activation

Magnetic activation

Synchronize remote settings

- Instant: Magnet activation
- Periodic: No user interaction needed

LED feedback

Green & red LED feedback on the device

Management Services

Diagnostics

- Battery lifetime prediction
- Detailed energy consumption
- Geolocation diagnostics
- Installation
- Communication quality

Management

- OTA firmware updates over NB-IoT,LTE-M and BLE
- Remote configuration
- Tracker usage profiles
- External environmental sensors

Application services

- Localization
- Journeys
- Activity
- Utilization

- Connectable with environmental sensors
- Temperature detection
- Tilt detection
- Shock detection

Firmware configuration

Communication service

- Data recovery strategy
- Communication conditions

General configuration

- Rule engine configuration
- Diagnostic levels
- Boot methods
- Accurate time synchronization

Environmental sensing

- Polling and aggregation strategy
- Alerts
- Edge processing parameters

Tamper service

Virtual tamper algo configuration

Security

- Device unique encryption keys
- End to end payload encryption Chacha 20

Location service

- Motion based, context based, periodic or scheduled
- Configurable update rate and journey detection
- Priority sequence (GNSS, Wi-Fi scanning, Bluetooth geobeacon)
- GNSS fix parameters
- Quoppa certified for high precision
- Indoor detection algo
- Wi-Fi scan strategy
- BLE scan strategy

Orientation service

Orientation detection parameters

Activity service

Activity detection parameters

Shock detection

Shock algo detection parameters

- AES encrypted firmware
- Firmware upgrade allows only signed firmware images