

GEOSATIS

Electronic Monitoring Device

User Guide

Version 1.7 2024

Electronic Monitoring Device

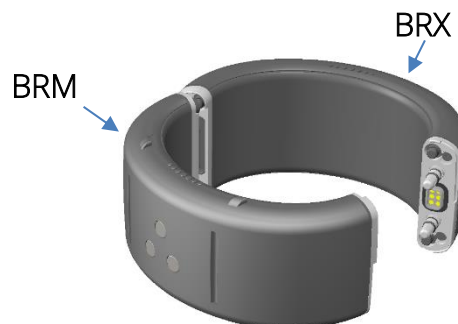
Specifications

Components:

- Main (BRM) – processing
- Auxiliary (BRX) – battery

Sizes

- Small - 9.61" / 244mm (inner perimeter)
- Medium - 10.71" / 272mm (inner perimeter)
- Large - 11.77" / 299mm (inner perimeter)
- Extra Large - 13.54" / 344mm (inner perimeter)



Waterproof - 16.40 ft. / 5m (when closed)

Data Communication – Multiple GSM carriers

Memory Storage – Approximately 30 days

Standard Tracking/Reporting Interval - 30-second intervals / one or two-minute intervals

Secondary Locationing Technology – Cellular

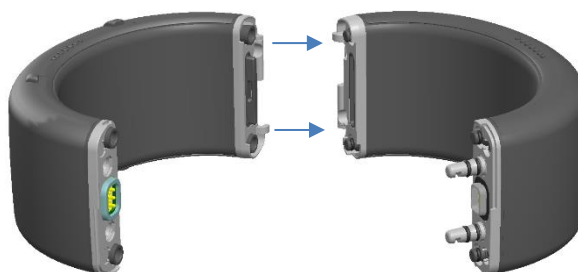
Battery Performance - 72+ hours on a full charge

Tamper-Resistant - Secure, titanium-based locking mechanism; embedded fiber optics

Installation

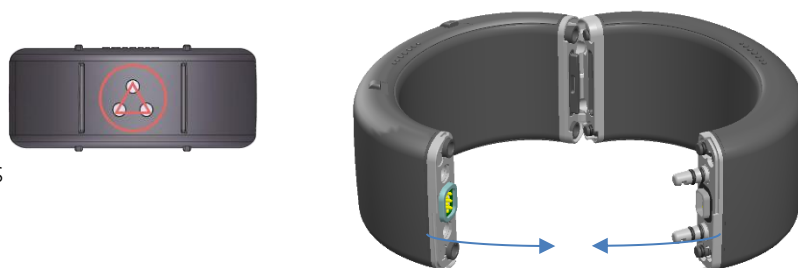
Step 1: Put hinges together

Hinges MUST be put together first (putting the pins side together prevents the device from closing and requires a Key to resolve the issue)



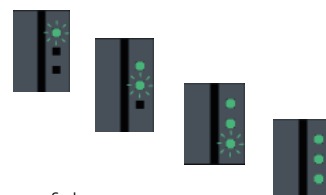
Step 2: Close the device

With triangle facing up, close the device while maintaining pressure at the locks end of the device until the top LED flashes green and an audio tone is heard.



Step 3: Confirm LED's

- Internal Test – Top LED flashes and then goes solid green
- Lock Test – Middle LED flashes and then goes solid green
- SIM Test – Bottom LED flashes and then goes solid green
- Audio tone generated – Successful installation



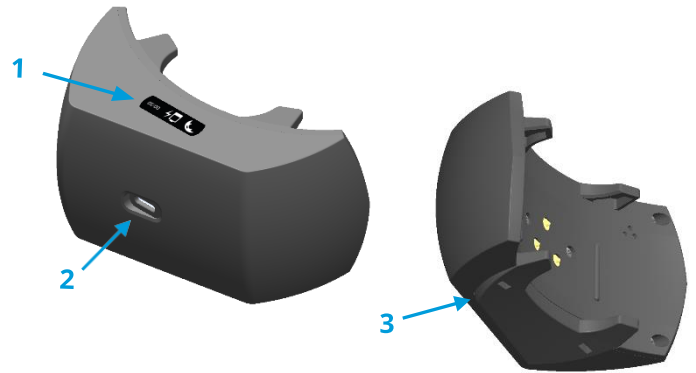
NOTE: Refer to "Troubleshooting Tips" at end of this guide if installation is not successful

Mobile Charger (MCH)

Overview

The MCH is the sole mechanism in which to charge the GPS device. Key components of the MCH include:

1. LCD
2. USB-C charging port
3. Button/Jaw
4. Sleep Mode (applicable to Key as well)
 - Occurs when MCH/Key has not been connected to a device or power for approximately 30 hours
 - To determine if MCH/Key is in Sleep Mode, depress the device button
 - If LCD lights up, MCH/Key is not in Sleep Mode
 - If LCD does not light up, MCH/Key is in Sleep Mode or is not charged
 - When initially connected to power, MCH/Key that is in Sleep Mode will not generate an audio tone
 - To disengage Sleep Mode, connect MCH/Key to power for approximately 15 seconds or until information is displayed on the LCD. This action must be taken prior to the MCH/Key being connected to a device







Charging the Mobile Charger (MCH)

Step 1: Connect the power adapter/USB-C cable to a power outlet, insert USB-C cable into the MCH

Step 2: Charge started: charge-time calculation in progress

Step 3: Charging: charge-time remaining (15-min. increments)

Step 4: Charge complete: disconnect USB-C cable

1.	
2.	
3.	
4.	

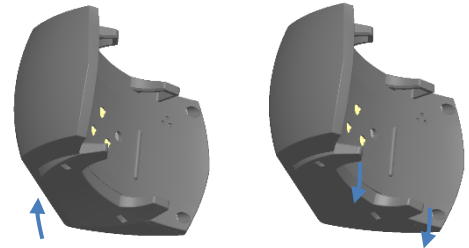
NOTE: charge-time remaining stops at 00:15; and remains until fully charged ✓

Charging the GPS Device

When the device primary battery level is at 25%, it will generate two vibration pulses every 10 minutes to prompt the Client to charge the device. Vibrations will continue until the MCH is placed on the device and begins charging.

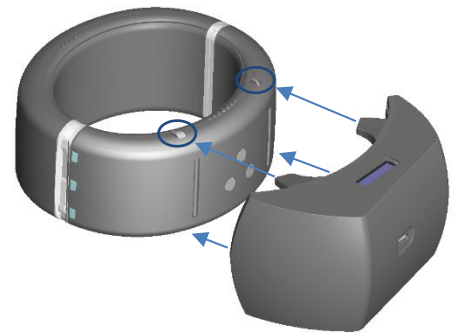
Step 1: Press and hold the button of the MCH to open the jaw

Note: Jaw must be opened prior to placing MCH on the GPS device to ensure a secure connection and for charging to begin



Step 2: While holding button, position and connect MCH to device

- MCH LCD must be facing up
- Connect MCH to device where the three (3) silver leads and small grips are located



Step 3: Monitor MCH LCD

- Charge started* - charge-time calculation in progress
- Charging* - charge-time remaining (15-min. increments)
- Charge complete* - checkmark; disconnect MCH from device
- MCH does not have enough charge to complete a full charge of the device* - audio tones generated every 5 min; MCH must be removed from device and plugged into power outlet

a.	
b.	
c.	
d.	

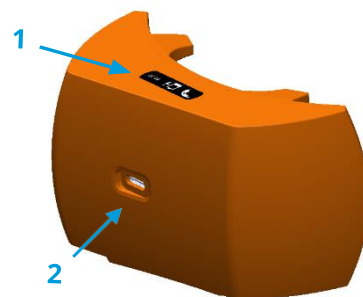
NOTE: charge-time remaining stops at 00:15; and remains until fully charged ✓

Key (ULK)

Overview

The Key is one method to unlock the GPS device. When installed correctly, it communicates a secure command to open the device. Components of the Key include:

1. LCD
2. USB-C charging port
3. Button/Jaw (see description under MCH section)
4. Sleep Mode (see description under MCH section)



Charging the Key

Charging the Key follows the same steps as Charging the MCH:

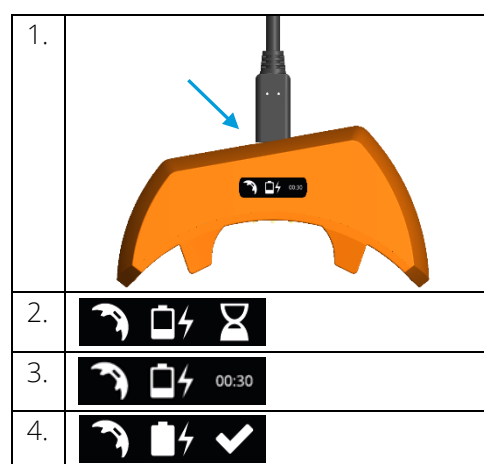
Step 1: Connect the power adapter/USB-C cable to a power outlet, insert USB-C cable into the Key

Step 2: Charge started: charge-time calculation in progress

Step 3: Charging: charge-time remaining (15 min. increments)

Step 4: Charge complete: disconnect USB-C cable

NOTE: charge-time remaining stops at 00:15; and remains until fully charged ✓



Unlocking the GPS Device

Using the Key:

Step 1: Press and hold the button of the Key to open the jaw.

Step 2: While holding button, position and connect Key to device (same as attaching MCH)

- Key LCD must be facing up
- Connect Key to device where the three (3) sliver leads, and small grips are located

Step 3: Monitor Key LCD and listen for audio tones

- a. *Key connected* - audio tone generated; bottom device LED flashes and then goes solid green
- b. *Authentication check* - middle LED flashes and then goes solid green
- c. *Ready to open* - audio tones generated and top LED flashes green; press sides of device together (near LED's)
- d. Pull sides apart



Note: If sides do not pull apart, remove Key and wait 30-45 seconds for device to reset then repeat steps.

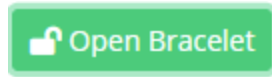
Using the GMS3 Software

Step 1: Select offender from Offenders Tab

Step 2: Select "Program" tab

Step 3: Click "Open Bracelet" button

Step 4: Input reason for opening device and click "Open" button



Note: Device must have cellular communication connection for command to execute.

Troubleshooting Tips

Pre-Installation

- **Confirm mobile charger (MCH) is out of "sleep mode" and charged** by depressing button located on the bottom of the charger.
 - Display lights up - MCH is out of sleep mode
 - Display does not light up - MCH is in sleep mode. Plug into power for approximately 15 seconds or until information is displayed
- **Confirm BRX is out of "sleep mode" and charged** by attaching charged MCH
 - Audio tone occurs when MCH is attached
 - MCH display lights up to confirm full charge or time remaining to full charge
- **Confirm both BRX and BRM are the same size** (size located by serial number)

Installation

- **Ensure BRM "triangle" is pointing upwards** when positioning around client's leg
- **Attach BRM and BRX hinges first** around client's leg
- **Close device while maintaining pressure** at the locks end of the device until the top LED flashes green and an audio tone is heard
- **All green LED's and audio tone** = successful installation
- **Middle LED flashes green/device periodically vibrates** = locking mechanism has not fully closed; press both sides near the LED's until you hear a "click"
- **Bottom LED flashes green and device repeats a 5-pulse vibration** = device is not oriented correctly:
 - a. Confirm device was installed "triangle up" – if not, use key or software to open device; let device reset for 30 seconds then re-close
 - b. If device was installed with "triangle up," then device has not completed its orientation check - have client stand up and device should re-orient within 20 seconds to complete installation (confirmed by solid green LED and audio tone)
- **All red LED's** = device must be re-opened with key; wait 30 seconds then re-close

Removal

- **Confirm device has a charge** by placing charged MCH on it for 3-5 minutes
- **Ensure key is out of sleep mode** by depressing button located on the bottom of the key
 - Display lights up - key is out of sleep mode

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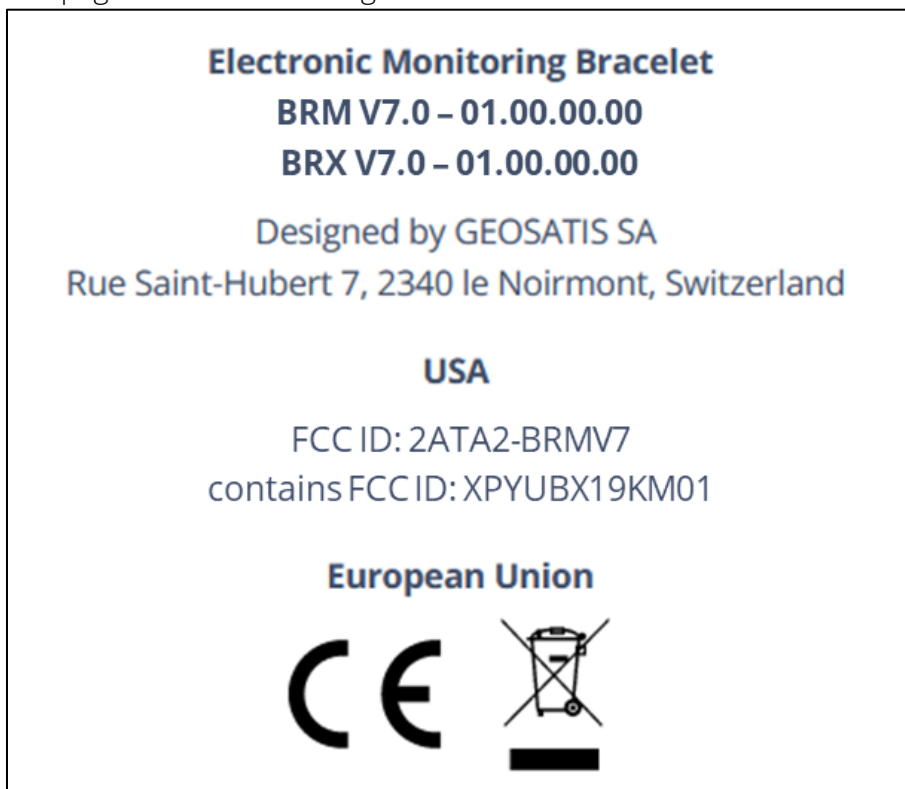
- Display does not light up - key is in sleep mode and must be plugged into power for approximately 15 seconds or until information is displayed
- **Attach Key to device** – repeating audio tones/display indicate device is ready to be opened by pressing sides of device together (near LED's) then pulling the sides apart
 - "X" on display instead of "open icons" – leave key on device for several minutes to allow the key to reset and start the authentication process again
- **Optional "Open" command from software** – ensure device is charged and communicating. Repeating audio tones indicate device is ready to be opened by pressing sides of device together (near LED's) then pulling the sides apart

NOTE: If you are unable to open/remove the device, please contact GEOSATIS

Devices certifications

How to reach device's details through the Geosatis website :

1. Go on the certification page of Geosatis website <https://geo-satis.com/certification>
2. The page contains all the legal notice and certifications



Exemple of certifications and legal notices

Please note that certifications may vary depending on the country

Batteries The batteries are certified IEC-62133 and UN38.3 (transport of batteries).
Adaptors XTAR DBS15Q
Specification: Output 5VDC 15W / 12VDC 18W / Input 100-240V

FCC Compliance Statement

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.

CAUTION: The manufacturer is not responsible for any changes or modifications not expressly approved by the party responsible for compliance. Such modifications could void the user's authority to operate the equipment.

NOTE: 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.

BRM and BRX devices have been tested and meet applicable limits for radio frequency (RF) exposure.

Manufacturer Information

Manufacturer

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