

# 502 SERIES Installation Guide

## DEVICE OVERVIEW

MTM502 has labels on the top and bottom of the device as shown in the picture to the right.

**TOP LABEL:** QR Code which provides the device serial number once scanned

**BOTTOM LABEL:** Device name and serial number barcode



Device needs to be installed with the top label facing up in order to ensure the best line-of-sight to the GPS satellites.

The MTM502 will be delivered in “Sleep” mode which is the lowest power state until the activation magnet is removed.

**NOTE:** The device will switch back to Sleep mode from any other mode if magnet is placed back into the slot on the side of the device.

The device will be shipped to you with a small, round magnet within a slot on the side.



Once external magnet is removed, device will then activate and initiate reporting



### REMOVE MAGNET

Remove magnet from slot on side of device

Save several magnets for future use to either reset devices or place devices back into sleep Mode

### VERIFY ACTIVATION

Log in to application

Check “Installed” column for install date & “Actions” column for location icons

If device is not activated, it will show UNINSTALLED in the “Actions” column

### INSTALL DEVICE

Place device in vehicle or on asset

Ensure top of device is facing upwards and has a clear line-of-sight to GPS satellites

A stable location is important to avoid movement so use zip ties to secure in-vehicle or the P249 bracket for assets

### CHECK SIGNAL STRENGTH

Determine signal strength (# of GPS Satellites or RSSI of cellular signal) after placing in vehicle or on asset

Device may have to be moved to improve signal strength

It is important to save the magnets after activation in the event you need to reset devices or want to return devices to Sleep mode to preserve the remaining battery life. In order to reset the device, leave the magnet on for 5 to 10 seconds before removing.

Replacing and removing the magnet, also known as a reset, activates the scan. If the reset is not performed, the device will not scan for the network again until the next scheduled heartbeat.

When magnet is added, the device will transition to Sleep mode within seconds. If device keeps sending location data with the magnet in the slot, the reason could be:

- MAGNET IS NOT STRONG ENOUGH (IS NOT THE ONE INCLUDED WITH THE DEVICE)**
- REED SWITCH IS FAULTY**

## VERIFY ACTIVATION

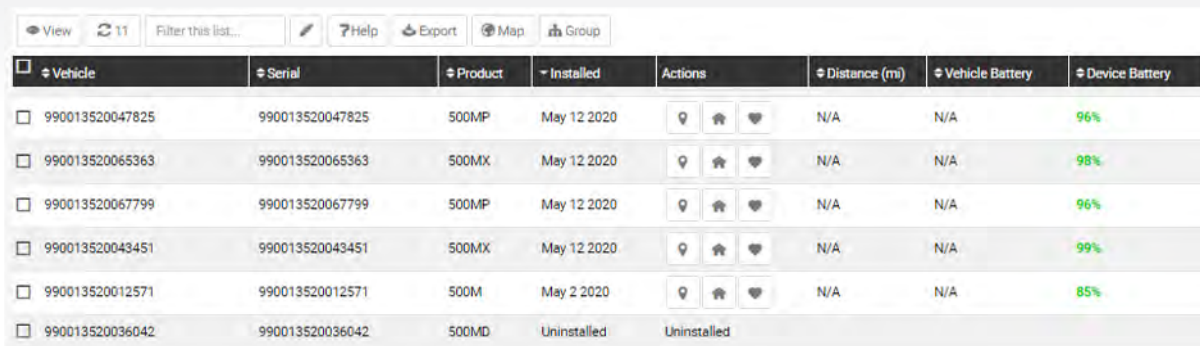
**STEP 1:** Log into Application Dashboard
















**STEP 2:** Select View – make sure Installed box is checked

**STEP 3:** Check “Installed” column for install date & “Actions” column for location icons if device is not activated, it will show UNINSTALLED in the Actions column

## IF DEVICE DOES NOT SHOW ACTIVATED AFTER MAGNET IS REMOVED:

1. Reattach magnet to the device (in the magnet slot on side of device)
2. Make sure you are in a place with adequate wireless signal (outside or near a window)
3. Leave magnet on the device for 5-10 seconds then remove again
4. Allow a few minutes then refresh online browser and check application



<input type="checkbox"/>	Vehicle	Serial	Product	Installed	Actions	Distance (mi)	Vehicle Battery	Device Battery
<input type="checkbox"/>	990013520047825	990013520047825	500MP	May 12 2020	  	N/A	N/A	96%
<input type="checkbox"/>	990013520065363	990013520065363	500MX	May 12 2020	  	N/A	N/A	98%
<input type="checkbox"/>	990013520067799	990013520067799	500MP	May 12 2020	  	N/A	N/A	96%
<input type="checkbox"/>	990013520043451	990013520043451	500MX	May 12 2020	  	N/A	N/A	99%
<input type="checkbox"/>	990013520012571	990013520012571	500M	May 2 2020	  	N/A	N/A	85%
<input type="checkbox"/>	990013520036042	990013520036042	500MD	Uninstalled	Uninstalled			

## INSTALLATION GUIDANCE

### DO'S

Do install device with a clear line-of-sight to GPS satellites and cell towers

**Top label with QR Code on device facing up**  
**Activate device outside of a building**

Do install device using the approved P249-MAG bracket with magnets on a metallic surface

### DONT'S

Don't install device inside a metal enclosure for construction equipment installations (i.e., generators)

- Creates a Faraday cage: transmission of radio waves to or from the device's antenna within a Faraday cage is heavily attenuated or blocked by the cage

Don't install device in a place where it is exposed to prolonged extreme temperatures or next to heat sources (i.e., engines)

Don't install device near a magnet as this may put the device into Sleep mode by triggering the Reed Switch