

ATOMATION.net



# Atomate It!™

## Android™ User Guide

A÷OMATION

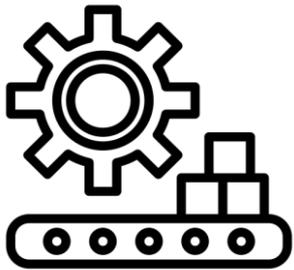
Atomate It!

# Welcome to the Atomation™ platform!

This manual guides users through the Atomate It! app. The Atomate It! app sets up and configures Atoms quickly and simply.

## How Atomation's Platform Works

Attach Atoms to  
Monitor your  
Existing Equipment



Use the Atomate It!  
App to Connect and  
Configure Atoms



Easily Access Information  
on Atomation's Cloud  
Database



# Table of Contents

## Getting Started

- [Download App](#)
- [Login](#)
- [Add Atoms](#)
- [Activate](#)
- [Unit Settings](#)
- [Configure](#)
- [Take Readings](#)
- [Graph View](#)
- [View Sensor Data](#)

## Advanced Settings

- [Atoms In Range](#)
- [Selecting Sensors](#)
- [Setting Thresholds](#)
- [Sampling Interval](#)
- [Last Connection](#)
- [Date Range](#)
- [Deactivate](#)
- [Remove Atoms](#)
- [Logout](#)

## Gateway Settings

- [Android Gateway Mode](#)
- [Access GW Settings](#)
- [Gateway Settings](#)

# Download Atomate It! from the Welcome Email

When you are added to the Atomation platform you will receive an email.

Download Atomate It! from the Welcome Email.

[Click Here](#) to download.

Compatible with Android phones.  
Requires Android 5.0 or later.

Welcome to 'Atomate IT System'!

 Inbox x



**support@atomation.net**

to me ▾

Dear

A new user was created for you at the 'Atomate IT' platform.

User.

Password: please contact the Admin for the first password

Please follow these steps in order to continue:

1. Download the 'Atomate IT' app:

iOS: <https://itunes.apple.com/il/app/atomate-it/id1462050514?mt=8>

Android: <https://s3-us-west-2.amazonaws.com/atomationmobileapps/latest%2Fatomate-it-1.7.2-prod-release.apk>

2. Create your own password by either login with the mobile app for the first time or using this link: <https://analytics.atomation.net:3001/setNewPassword/5c59469bcdfcc5789216e899>

3. By using the mobile app you can read sensors data, upload it to your web dashboard and configure the units if needed.

Your Atomation Team.

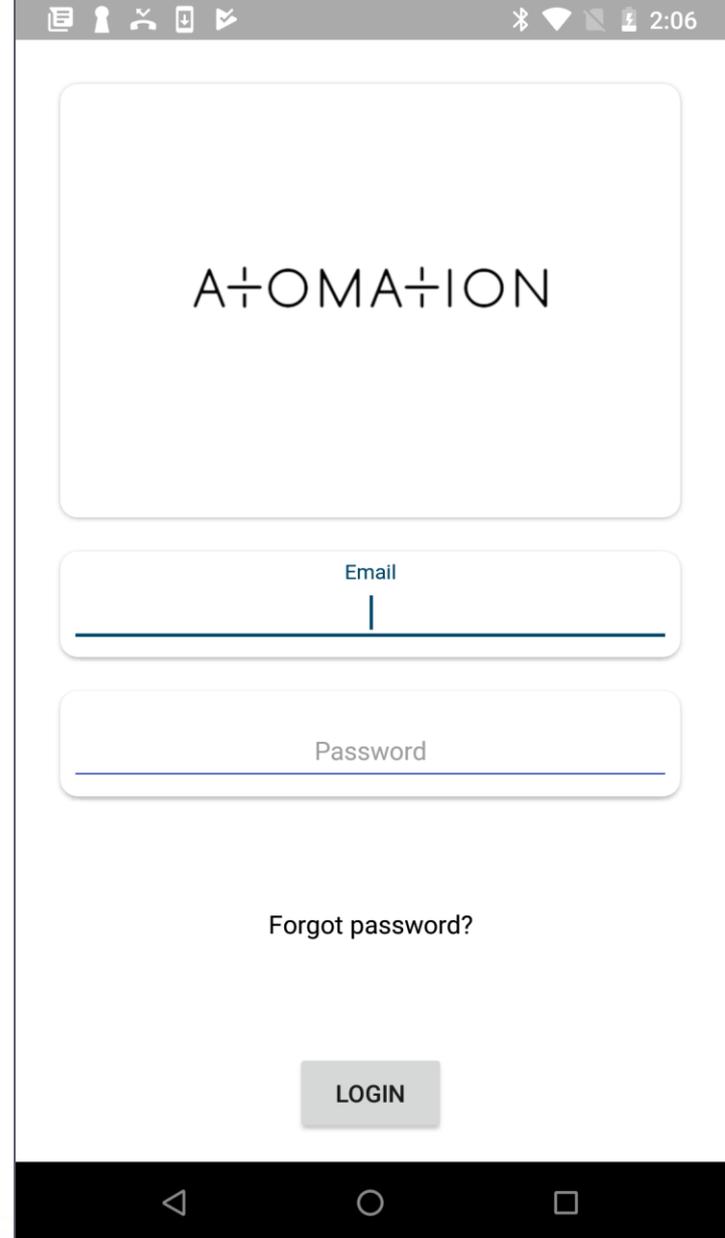
# Login

Login using credentials provided by Atomation and a password of your choice.

Use the same credentials for the app and Atomation online dashboards.

If you need help accessing your credentials, use the 'Forgot Password' option or email us at [info@atomation.net](mailto:info@atomation.net).

NOTE: The Atomate It! app requires use of Atomation's platform and Atoms (hardware) in order to operate.



ATOMATION

Email

Password

Forgot password?

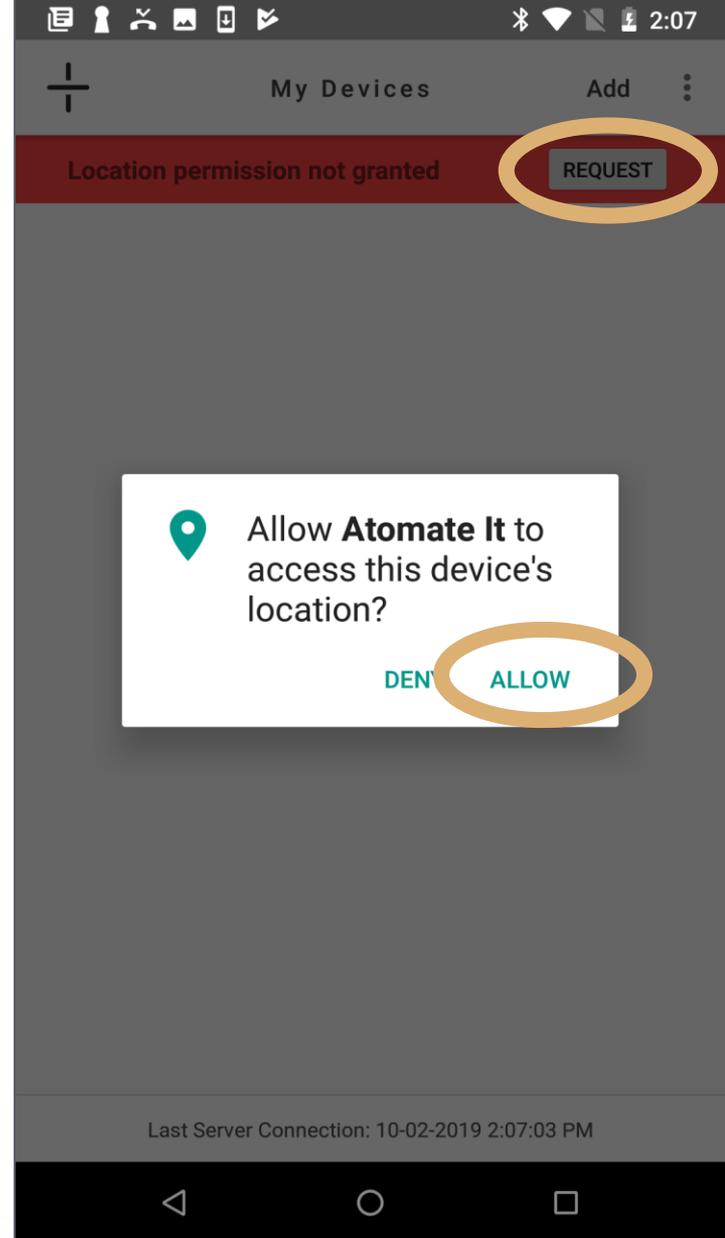
LOGIN

# Allow Location

The first time you open the app a red bar with a message will state 'Location permission not granted.'

Tap 'REQUEST.'

You must select 'ALLOW' for Atom locations to be available on maps and online dashboards.

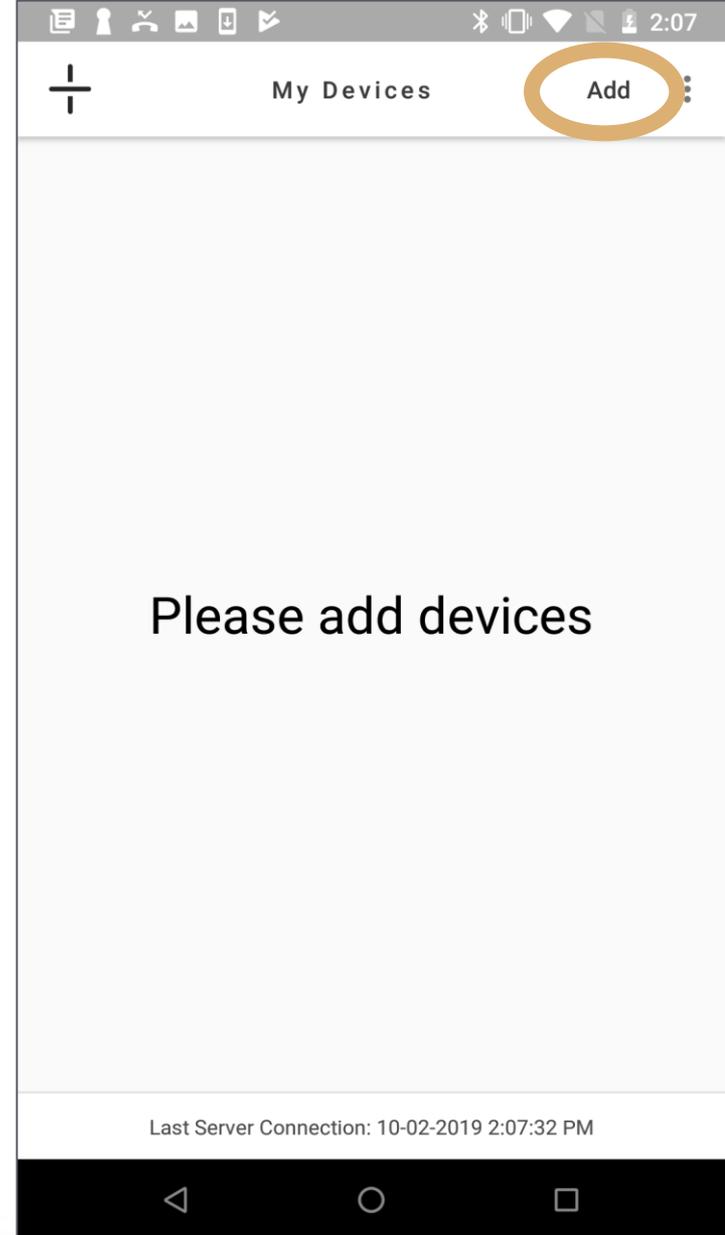


# Add A Device

After Login, the My Devices screen will state 'Please add devices.'

Tap 'Add' at the top of the screen to look for available devices.

Locate the MAC ID label and make sure you are within range of an Atom to add it to the app.

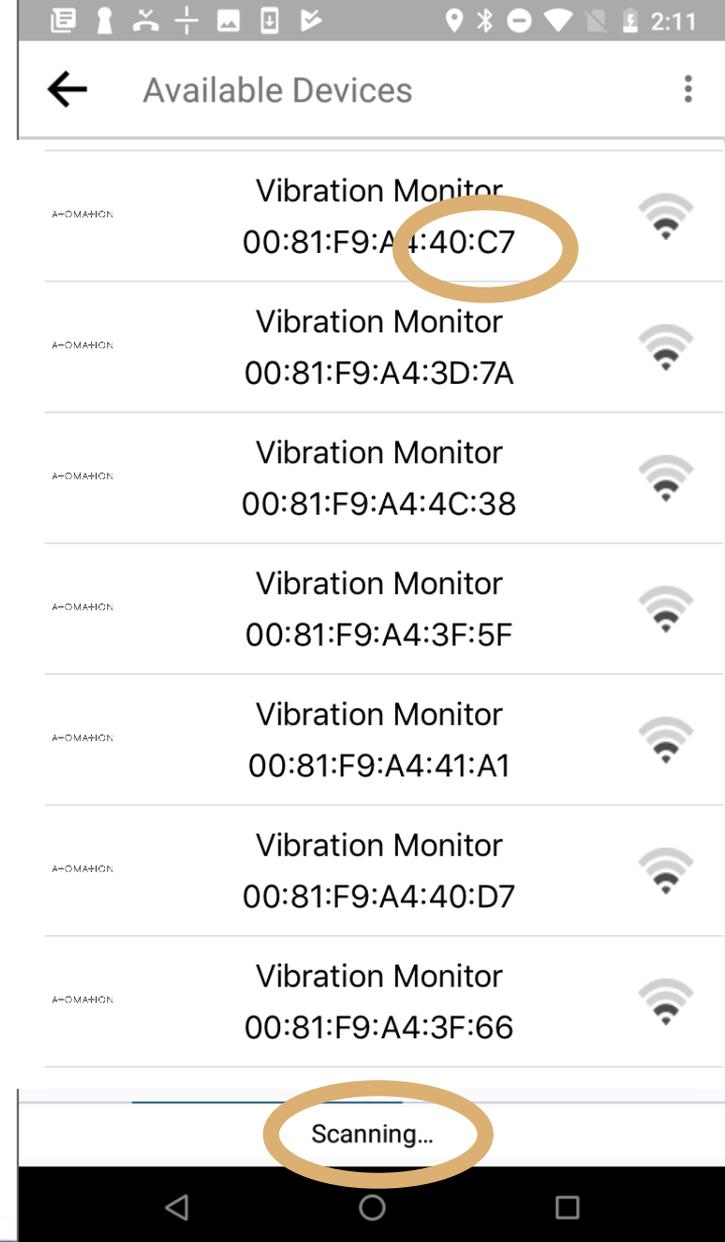


# Select from Available Devices

After tapping the Add button on the My Devices screen, the Available Devices screen will appear. The App will stay in Scanning mode while on the Available Devices screen.

On this screen, the app will continuously scan for Atoms and a list will populate with all Atoms in range.

Select the Vibration Monitor that has the same last 4 numbers and letters that correspond with the MAC ID label on your Atom.



# Activate your Atom

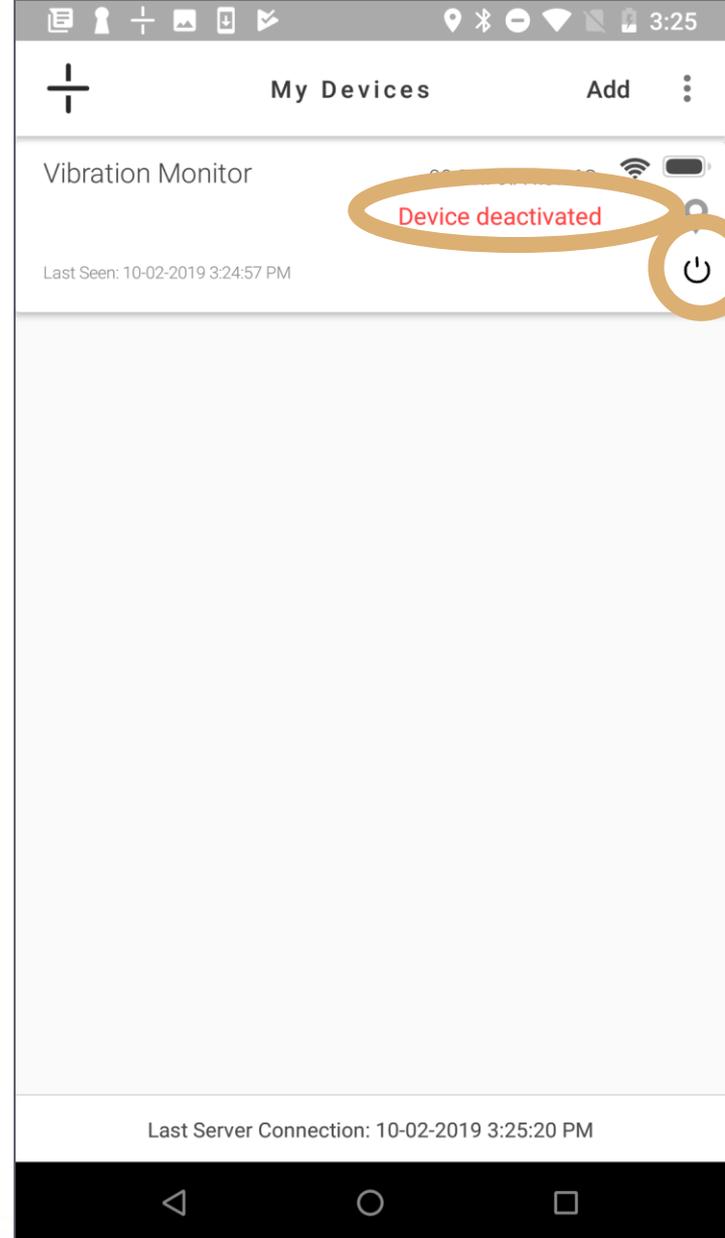
Atoms arrive Deactivated to conserve battery life.

Activate your Atom by tapping the power button.

Activation can take up to 1 minute.

More than one Atom can be activated at a time, so you do not need to wait for each Atom to be activated before adding another.

When the red Device Deactivated message disappears, tap your device on screen.



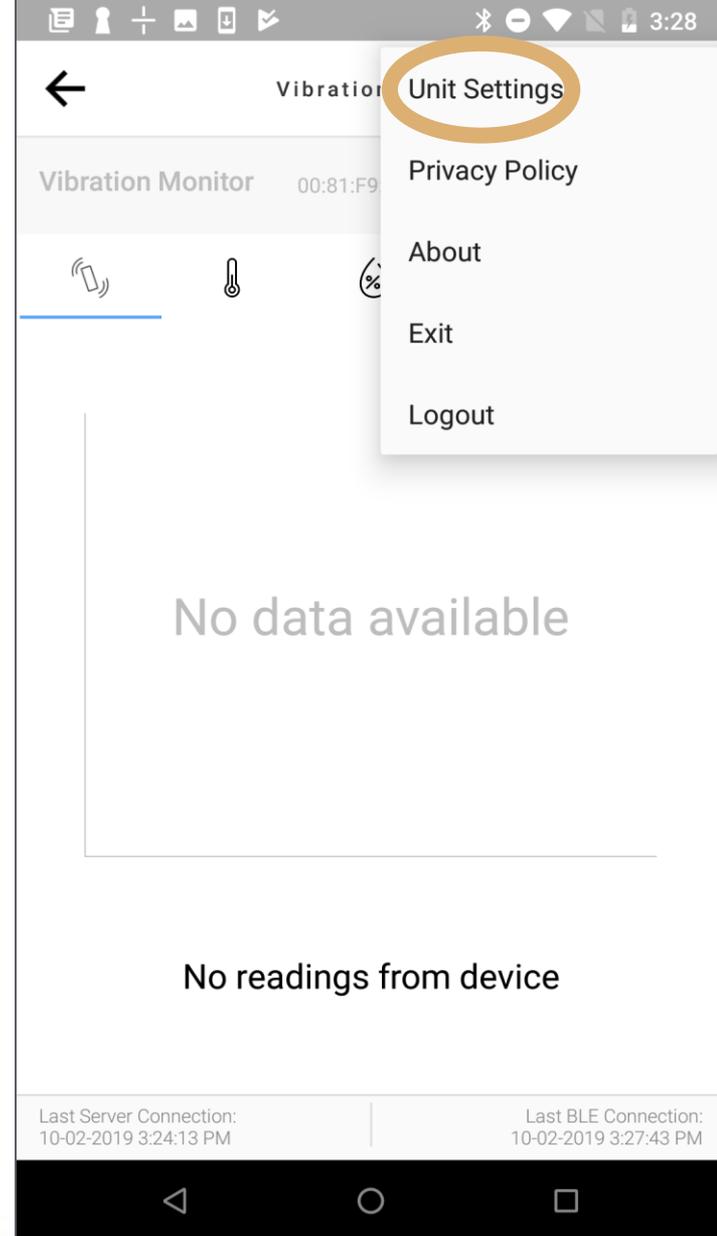
# Go to Unit Settings

Tap the three dots on the top right of the screen.



Select Unit Settings from the menu.

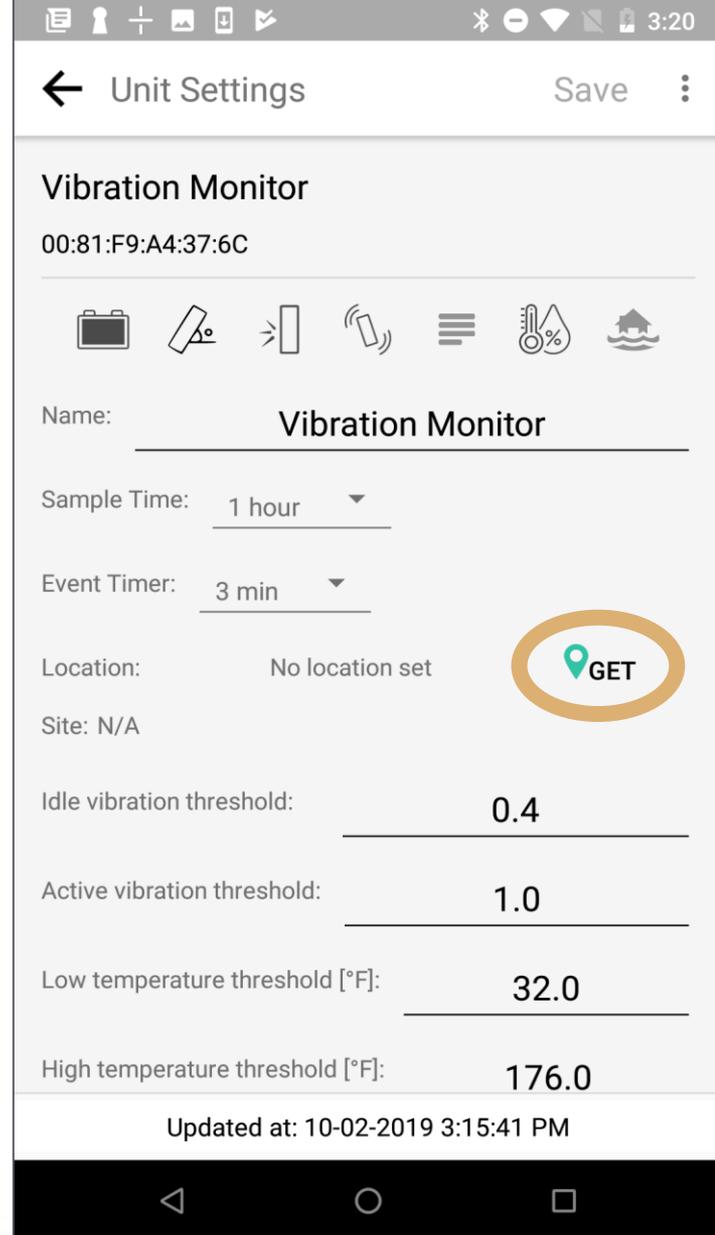
Atom must be in range to access Unit Settings.



# Configure your Atom

- Tap Icons to turn Sensors On (black) and Off (grey)
- Name Your Device specific to the equipment the Atom will be monitoring
- Tap 'Get' to record the Atom location
- Set Sample Time and Event Timer
- Set Thresholds

Go to the Advanced Settings pages to learn more about how to configure your Atom.

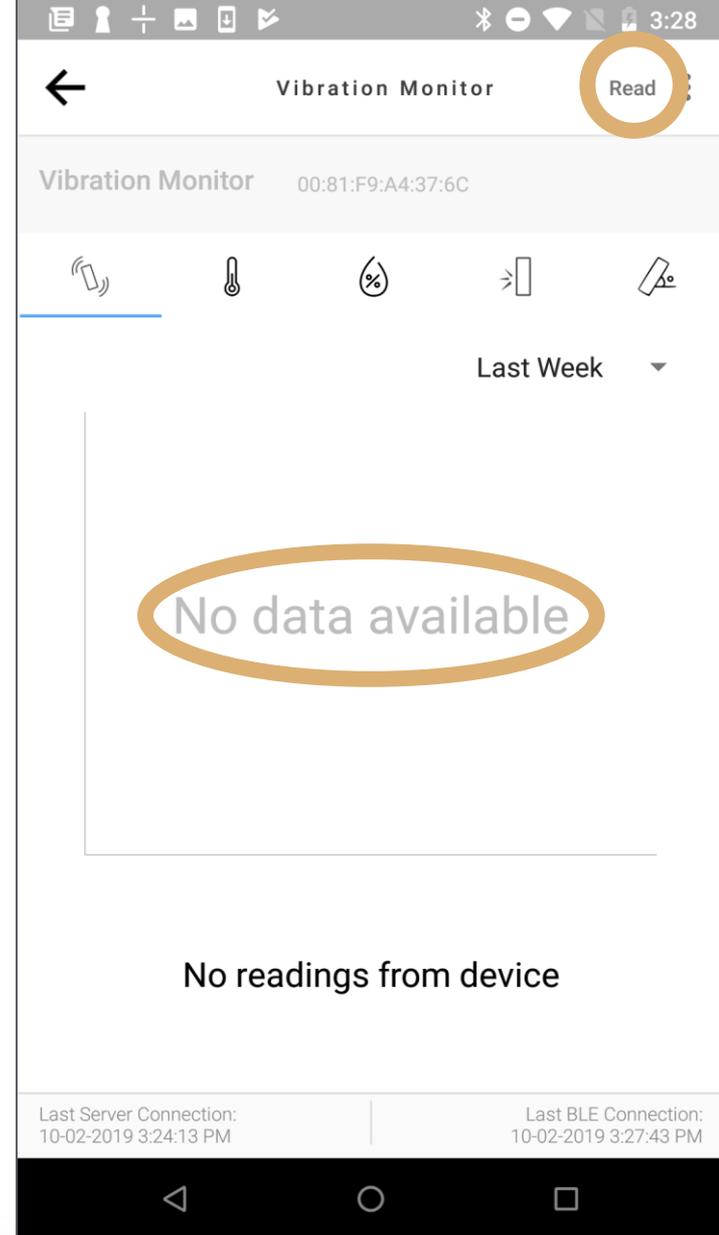


# Take your First Reading

Take your first reading by tapping Read in the top right hand corner of the screen.

Use the Read button at any time to manually take a sample.

The 'No data available' message will be replaced with a graph of your data points over a selected date range.



# View Readings Graphically

You can view a graph of recordings from each sensor individually.

Tap the sensor icon of the graph you wish to view. The sensor selected will be underlined in blue.

Thresholds are represented with red bars across the graph.

The default date range is last week. Change date range by tapping the down arrow.

Tap  Sensor data to view a list of recordings.

Last reading shows the value of the last datapoint recorded by that sensor.



# View Sensor Data

Tap [^](#) Sensor data to view a list of recordings for the sensor selected and underlined in blue.

Samples recorded by a threshold trigger appear highlighted in red.

Time shows the date and time when the sample was taken.

Threshold Status: sensors with threshold capabilities will show threshold status.

Sensor reading shows the value and units of the sample recorded.

Tap [v](#) Sensor data to go back to graph view.

The screenshot shows the 'Vibration Monitor' app interface. At the top, there's a title bar with a back arrow, the text 'Vibration Monitor', and a 'Read' button with a menu icon. Below the title bar, the app displays 'Vibration Monitor' and a unique identifier '00:81:F9:A4:37:6C'. A navigation bar contains several icons: a vibration icon, a thermometer icon, a percentage icon, a right-pointing arrow icon, and a pencil icon. Below this bar, a 'Sensor Data' section is highlighted with a blue underline and a blue arrow icon to its left. This section contains a list of recordings. The first recording is highlighted in red, indicating it was triggered by a threshold. The recordings are as follows:

Time & Date	Threshold Status	Sensor Reading
10.02.19   3:31:33PM	Active	1.478 [g]
10.02.19   3:31:24PM	Off	0.075 [g]
10.02.19   3:31:16PM	Off	0.028 [g]
10.02.19   3:31:13PM	Off	0.119 [g]
10.02.19   3:31:09PM	Off	0.013 [g]
10.02.19   3:31:04PM	Off	0.047 [g]
10.02.19   3:30:56PM	Off	0.173 [g]
10.02.19   3:30:20PM	Off	0.011 [g]

At the bottom of the screen, there are two connection status indicators: 'Last Server Connection: 10-02-2019 3:31:40 PM' and 'Last BLE Connection: 10-02-2019 3:31:31 PM'. The bottom navigation bar of the phone is visible at the very bottom.

ATOMATION.net

# Advanced Settings

A÷OMATION

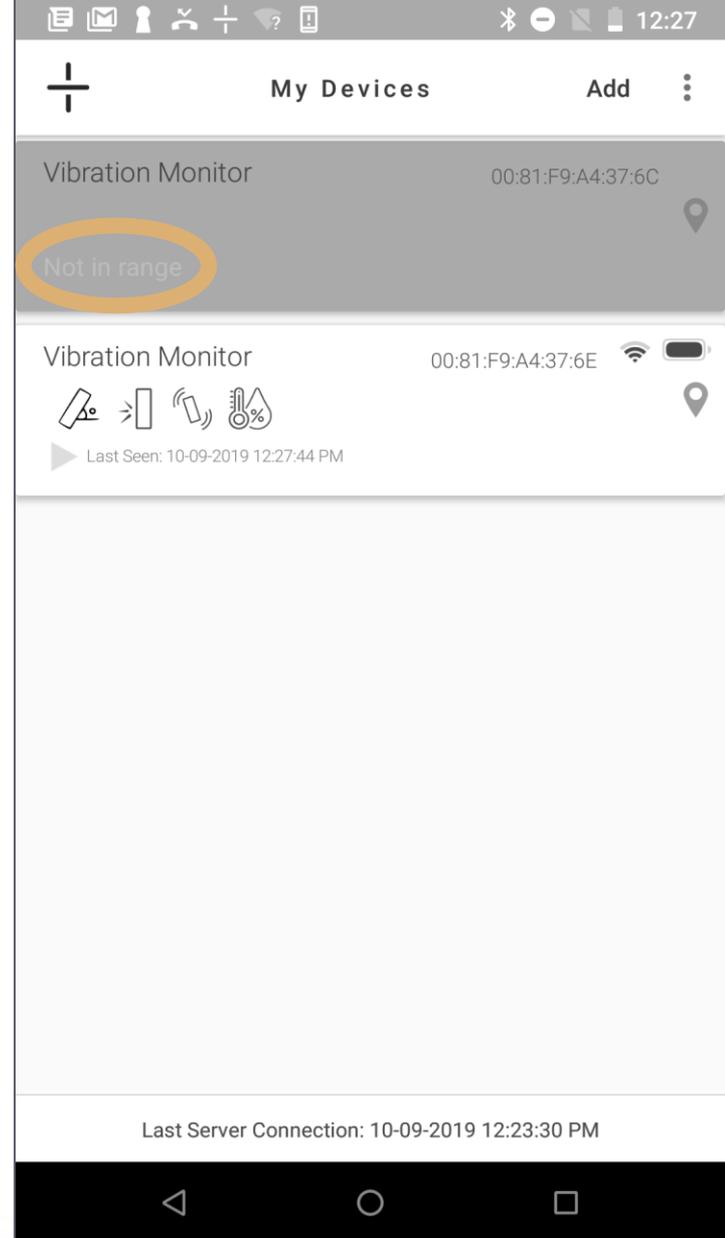
Atomate It!

# Atoms In Range

To access Atoms using the Atomate It! App Atoms Must be in range.

When Atoms are in range and the app is open or Gateway Mode is turned on, Atoms will automatically communicate with the app and Atomation's Cloud Database.

Atoms not in range will appear grey with a 'Not in range' message on the my devices screen.



# Selecting Sensors

Users decide which sensors are in use on each Atom. In Unit Settings, sensors that are turned on appear black and, when turned off, appear grey.



## Battery\*

Used to monitor voltage when connected to an external battery.



## Tilt

Monitors for change in position/angle from the calibrated position.



## Impact

Monitors the intensity of an impact using G force.



## Vibration

Accelerometer is used as a proxy for vibration.



## Raw Data

Provides reading from X, Y and Z axis of the accelerometer.



## Temperature & Humidity

Monitors environmental conditions.



## Leak Detection\*

Monitors for the presence of liquids.

Sensor On – Black



Sensor Off – Grey



\*External sensor and connection to Atom required.

# Setting Thresholds

Thresholds are set to ensure your devices are operating within acceptable parameters. When thresholds are met, Atoms will record samples regardless of sampling interval.

Input specific values for the thresholds you want to monitor. Thresholds are represented as red horizontal bars across sensor graphs.

Set Idle/Active vibration thresholds to understand equipment performance.

Set Low/High temperature thresholds to ensure temperature is in an acceptable range.

High G thresholds monitor for impact.

Setting	Value
Idle vibration threshold:	0.4
Active vibration threshold:	1.0
Low temperature threshold [°F]:	32.0
High temperature threshold [°F]:	176.0
High G threshold [g]:	6
Tilt threshold [°]:	0
Flood threshold [mV]:	700
Vibration raw data samples:	1600
Vibration raw data frequency:	1600
Vibration raw data G level:	8
Battery Voltage:	-

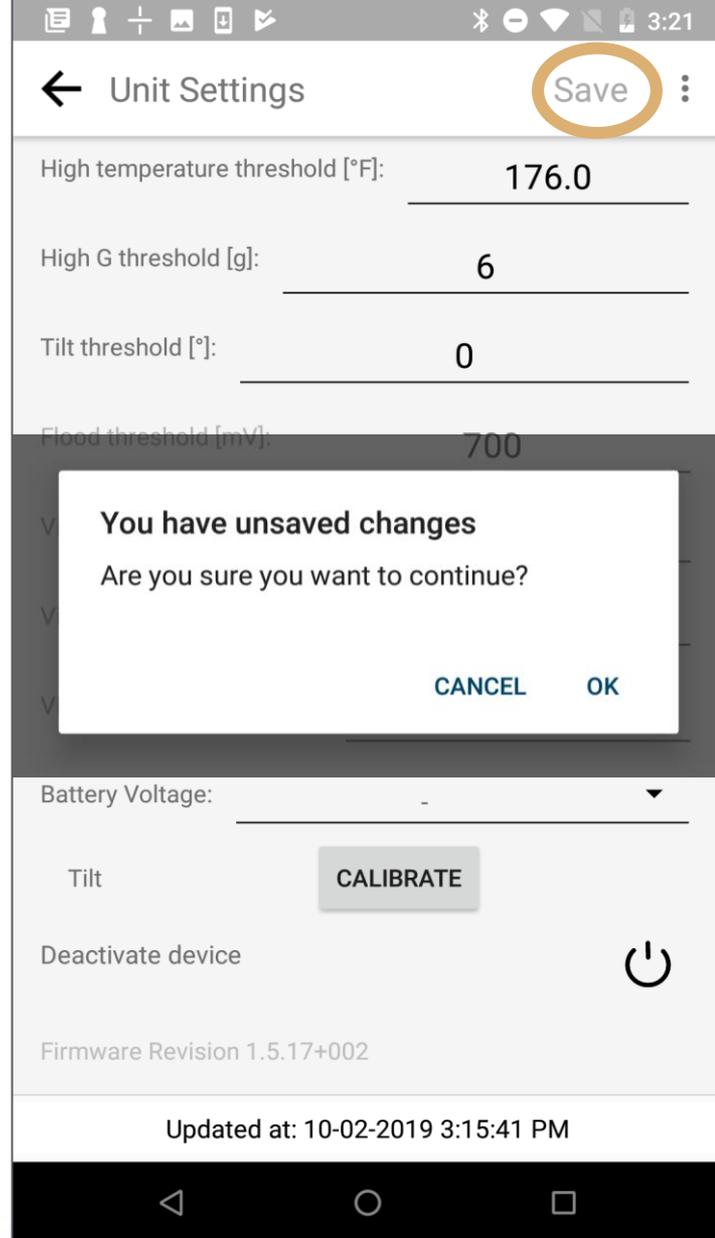
Updated at: 10-02-2019 3:15:41 PM

# Setting Thresholds and Unit Settings (cont.)

Set tilt threshold to monitor for a change in angle of the Atom.

Flood thresholds and Battery Voltage require integration with external sensors.

When exiting Unit Settings hit 'Save' to save changes.



# Tilt Calibration

Start by positioning the Atom on your equipment.

Tap the 'CALIBRATE' button to set the initial start position.

Set tilt threshold with the degree value that you do not want your object to exceed.

The screenshot displays the 'Unit Settings' screen of an application. At the top, there is a navigation bar with a back arrow, the title 'Unit Settings', and a 'Save' button. Below this, several settings are listed, each with a label and a value field:

- High temperature threshold [°F]: 176.0
- High G threshold [g]: 6
- Tilt threshold [°]: 0
- Flood threshold [mV]: 700
- Vibration raw data samples: 1600
- Vibration raw data frequency: 1600 (dropdown menu)
- Vibration raw data G level: 8
- Battery Voltage: - (dropdown menu)

At the bottom of the settings list, there is a 'Tilt' section containing a 'CALIBRATE' button, which is highlighted with a yellow circle. To the right of this button is a power icon. Below the 'Tilt' section is the text 'Deactivate device'. At the very bottom of the screen, the firmware revision '1.5.17+002' is displayed, followed by a status bar showing 'Updated at: 10-02-2019 3:15:41 PM' and the Android navigation bar.

# Sampling Interval

## Periodic Samples

The Atom will record readings from all selected sensors based on the time interval selected in addition to threshold triggered readings.

When Sampling time is set to N/A, Atoms monitor and record samples only when thresholds are met. Setting Sample time to N/A extends battery life of Atoms.

Unit Settings Save

### Vibration Monitor

00:81:F9:A4:37:6C

Name: **Vibration Monitor**

Sample Time: 1 hour

Event Timer: N/A

Location: Location set GET

Site: N/A

Idle vibration threshold: 0.4

Active vibration threshold: 1.0

Low temperature threshold [°F]: 32.0

High temperature threshold [°F]: 176.0

Updated at: 10-02-2019 3:42:31 PM

# Event Timer

The Event Timer allows users to decide the duration of a threshold event before they are recorded.

The screenshot displays the 'Unit Settings' interface for a 'Vibration Monitor' device. The device ID is 00:81:F9:A4:37:6C. The settings are as follows:

- Name:** Vibration Monitor
- Sample Time:** 1 hour
- Event Timer:** 3 min (dropdown menu is open showing options: 10 sec, 30 sec, 1 min, 3 min, 10 min, 1 hour)
- Location:** location set (with a GET icon)
- Site:** N/A
- Idle vibration threshold:** 0.4
- Active vibration threshold:** 1.0
- Low temperature threshold [°F]:** 32.0
- High temperature threshold [°F]:** 176.0

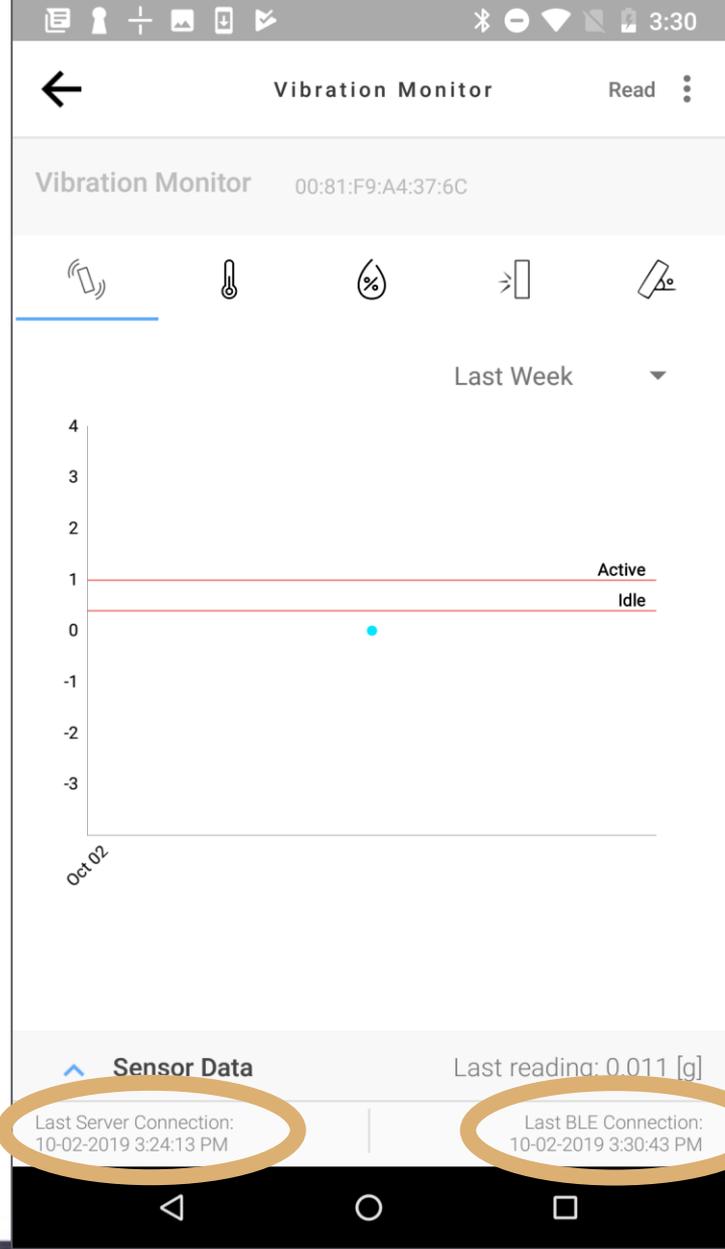
Updated at: 10-02-2019 3:42:31 PM

# Last Server Connection & Last BLE Connection

Last Bluetooth Low Energy (BLE) connection is the last time the app communicated with the Atom, using a local connection to upload information recorded on the Atom.

Last Server Connection is the last time the app communicated with Atomation's Cloud database.

\*Phone must be connected with WIFI or cellular data plan.



# Change Date Range

Users can change the date range of samples on the graphs.

To change the date range, tap the down arrow and a drop down will appear.

Choose to view 1 week, 2 weeks or the last month of samples.

The graph will automatically adjust to reflect the suggested date range.



# To Deactivate an Atom

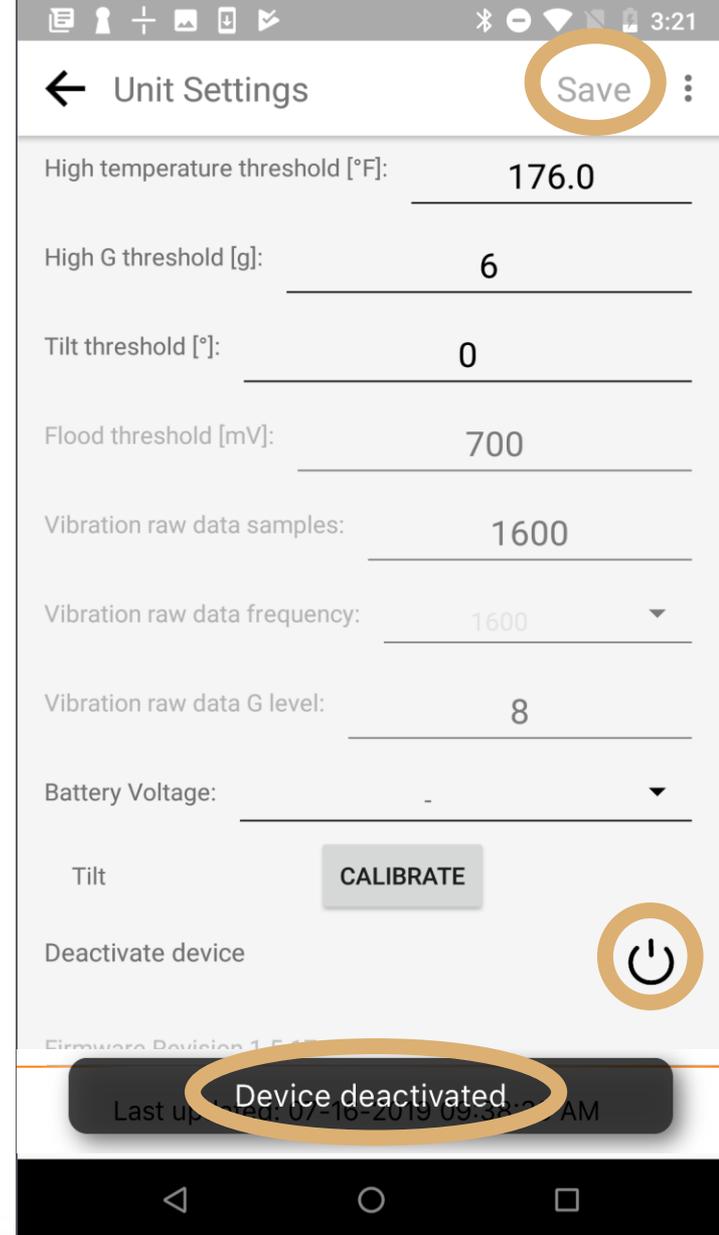
Select the Atom you want to Deactivate from the My Devices screen.

Tap the button with three dots  at the top right, then select Unit Settings.

Scroll down to Deactivate Device and tap the power button.

Wait for the Device Deactivated message to appear at the bottom.

Save your changes.



# Removing an Atom

To delete an Atom, go to the My Devices screen.

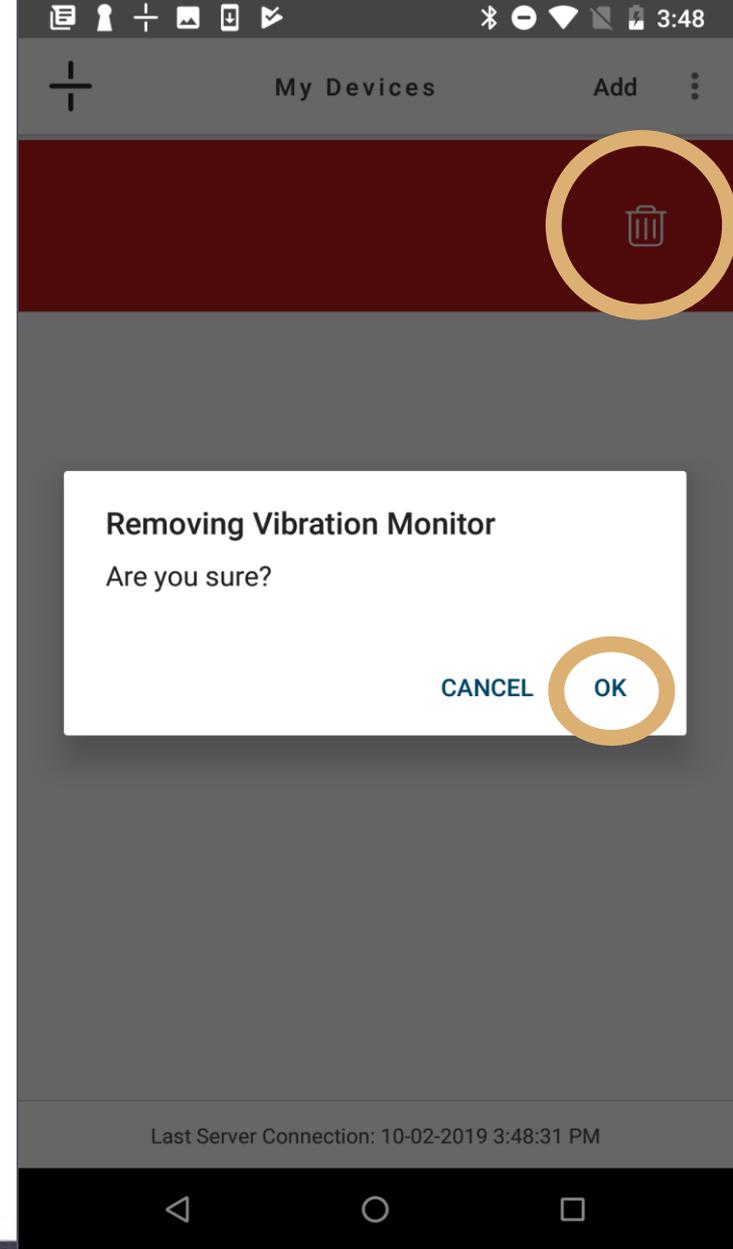
Scroll to the Atom you wish to remove.

Press and swipe left until the red bar appears, then tap the trash icon.

The app will prompt: 'Are you sure?'

Removing an Atom will remove it from the My Devices screen on your App and will remove Atom data from online dashboards.

Click OK to remove an Atom.



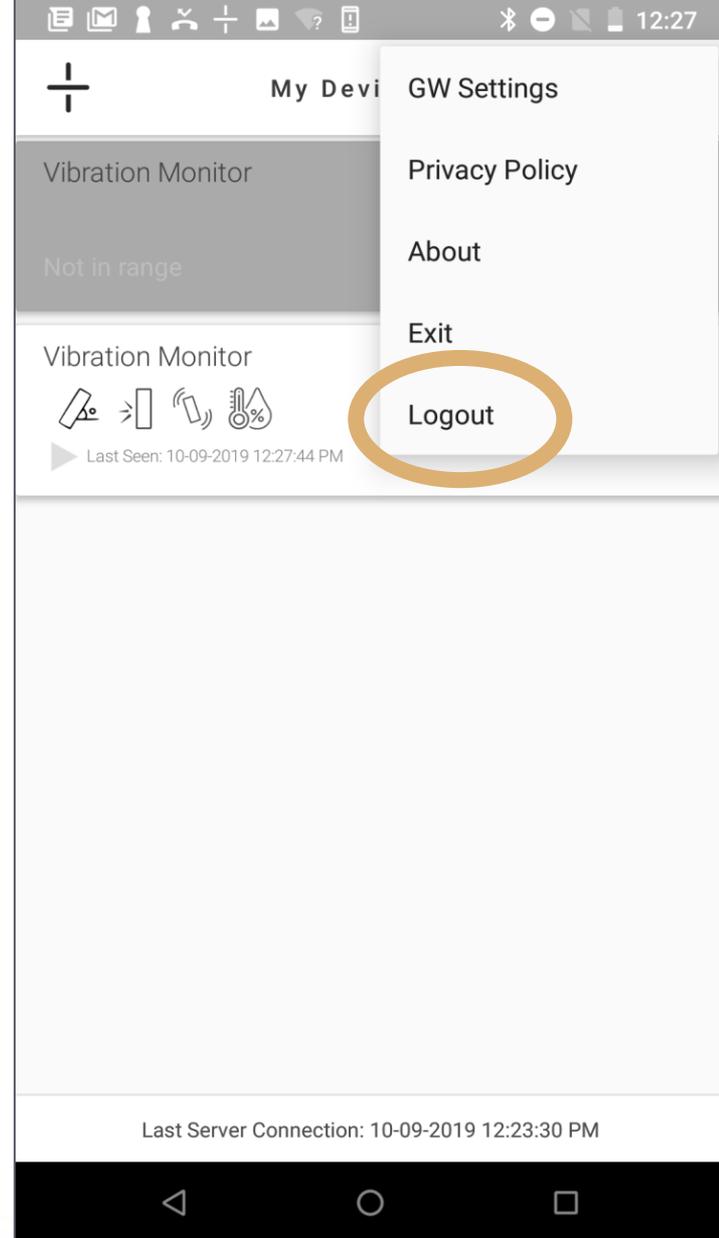
# Logout

To logout of the app, go to the My Devices screen.

Tap the button with three dots  at the top right, then select Logout.

The app will ask 'Are you sure?', select OK to logout.

If you logout of the app, Gateway Mode will no longer be active and recordings will not appear on online dashboards.



ATOMATION.net

# Android Gateway Settings

A÷OMATION

Atomate It!

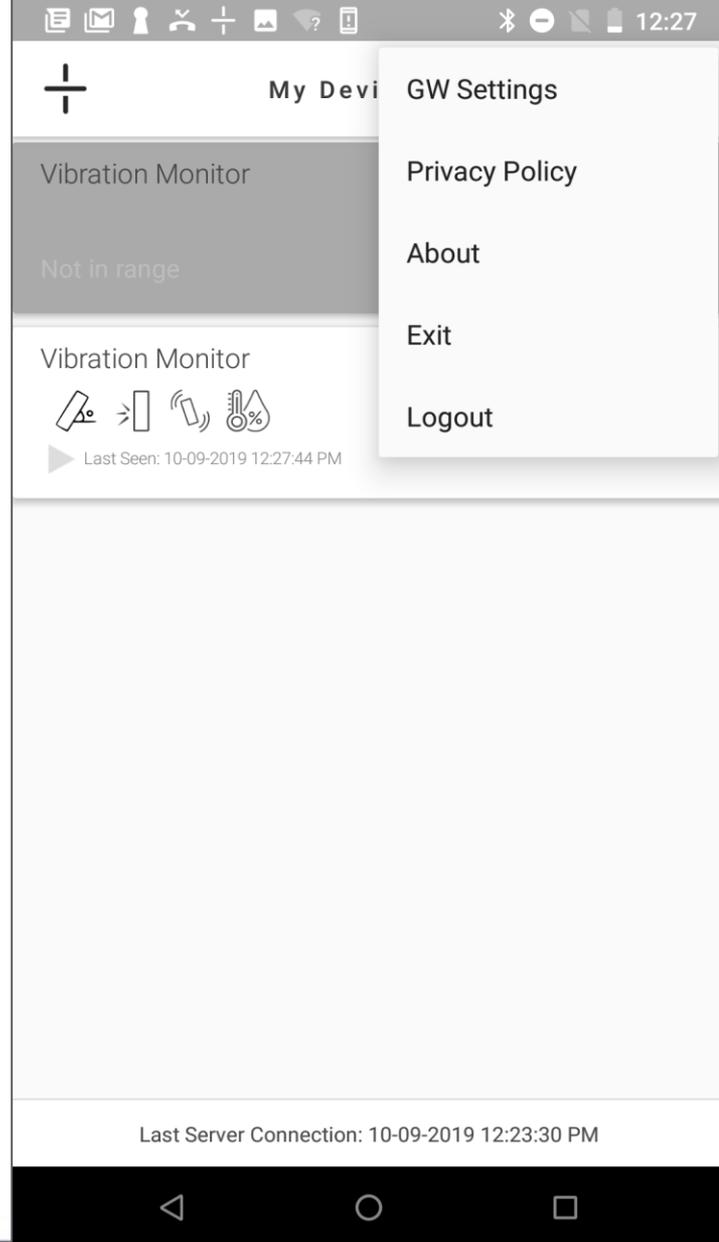
# Android Gateway Mode

*Gateway Mode is available only on Android devices.*

Gateway Mode allows Android devices to continuously communicate with Atoms to collect and send data to the cloud.

Make sure Atoms are in range of the Android device. Range is ~50M depending on Android device.

Atoms that are not in BLE range of the device will appear grey on the My Devices screen and data will not communicate with the gateway.

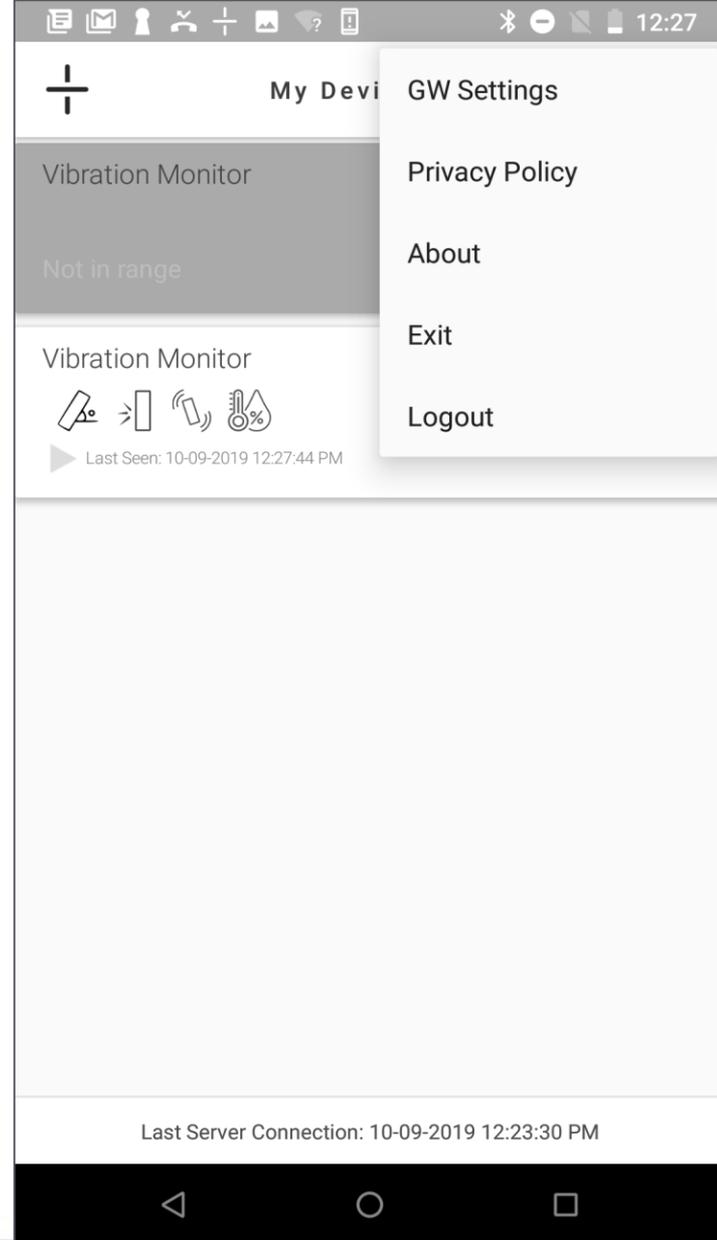


# Access GW Settings

Tap three dots at the top right of your screen.



Tap GW Setting to configure Gateway Settings.



# Gateway Settings

First activate Gateway Mode, switch appears green.



Name your Gateway by clicking the box and typing a name that references the location or the Atoms the Gateway it is going to monitor.

Data Collection Interval allows you to determine how often the Android gateway communicates with Atoms uploading data to the cloud regardless of threshold events.

Site allows users to identify the site where the Gateway is located.

Keep Alive Interval allows Atomation to ensure the Android Gateway and Atoms are operational.

