

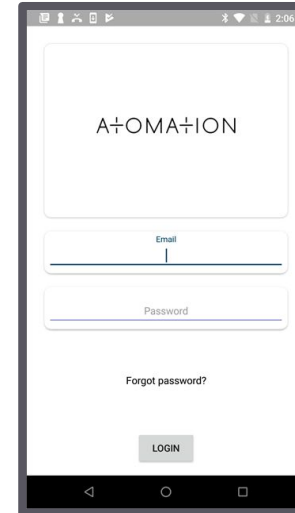
A÷OMAT÷ION[®]

Atomate It![®]

Atomate It! App User Guides

Welcome to the Platform!

This manual guides you through the Atomate It!® app.
The Atomate It! app activates and configures Atoms quickly and simply.



Requirements

- The Atomate It! app requires use of Atomation's platform and Atoms (hardware) in order to operate.
- Requires Android 5.0 or later.
- Android device must be connected to WiFi or have a cellular data plan.

Table of Contents

Getting Started 5

Adding Atoms 11

Activating Atoms 16

Working with the
Atomate It! app 19

Configuring Atoms 23

Sensor Configuration 27

Timers 37

A grayscale photograph of an industrial robotic arm, likely a CNC machine, with a yellow triangular warning symbol on its side. The background is a dark, semi-transparent overlay.

Getting Started

Welcome Email

When you are added to the Atomation platform, you will receive an email to set up your credentials. Open the email on your mobile device.

If you do not receive this email, contact your representative.

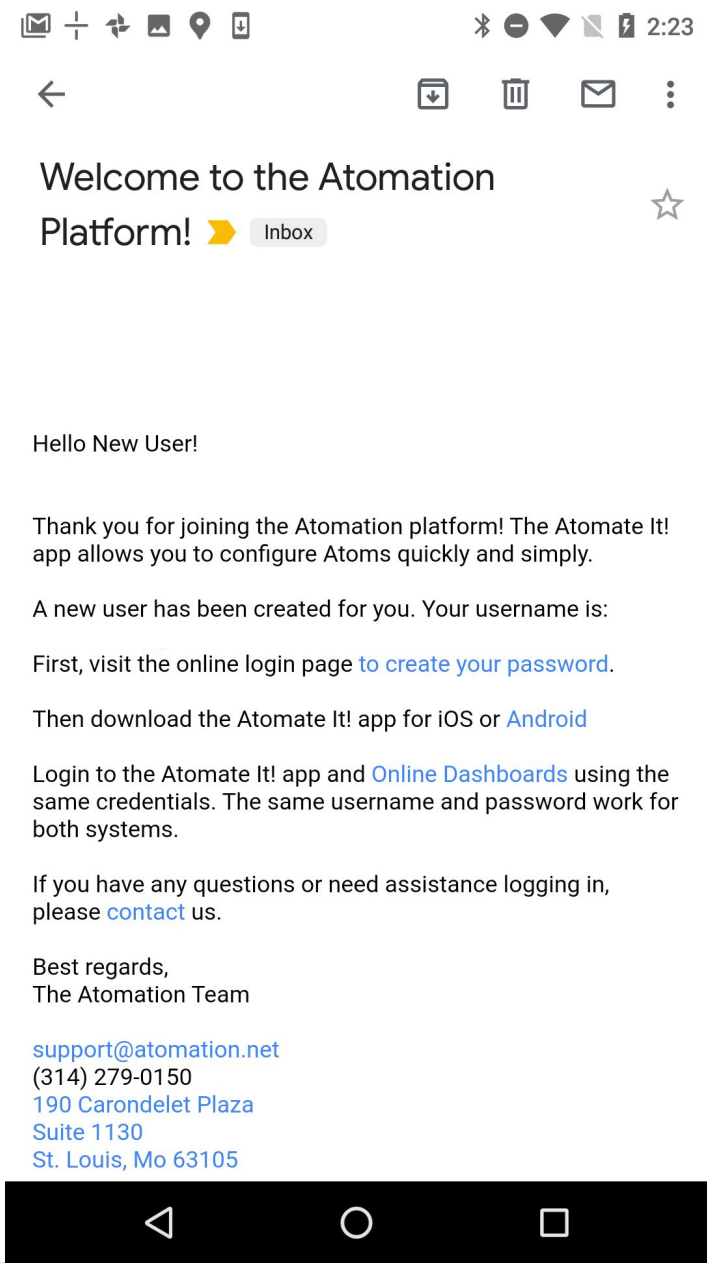
Setting Up Credentials

Follow the link to create a password and finish setting up your account.

These credentials will be used for **BOTH** the Atomate It! app and the online dashboard.

Downloading The App

Download the Android app using the link in the email.

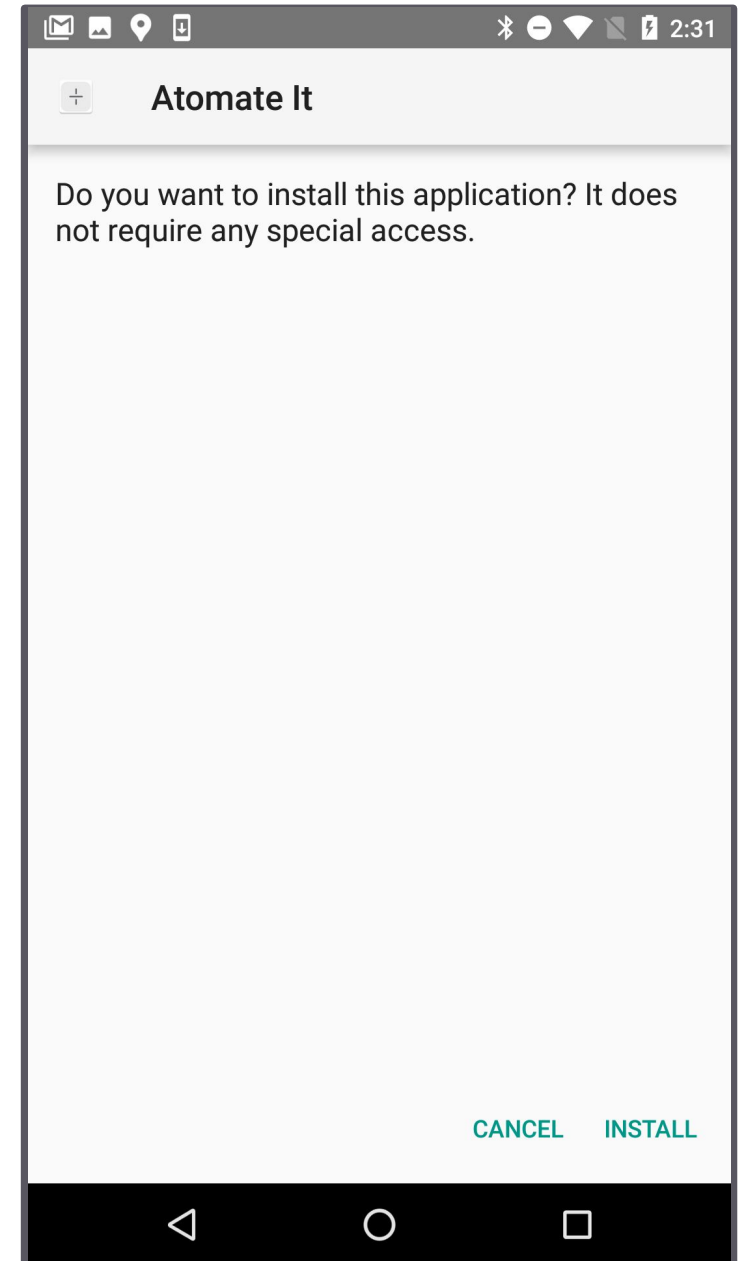
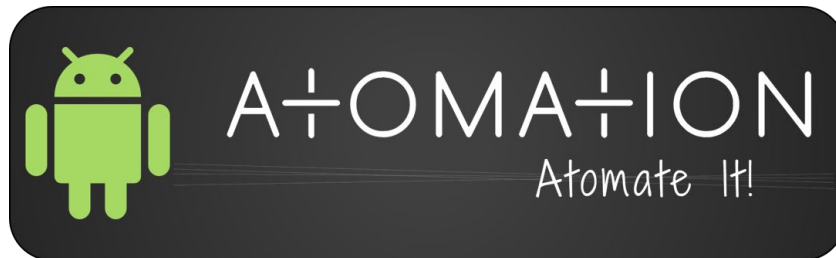


Helpful Hint

Make sure you don't have any previous versions of the Atomate It! app installed on your device.

Depending on your Android device, a message may appear asking if you are sure you want to download the app. If you see this message, tap **Install**.

The up-to-date version of the Atomate It! app is always available for download online. Go to Atomation.net, scroll to the bottom of the page and tap the Android button to start downloading.



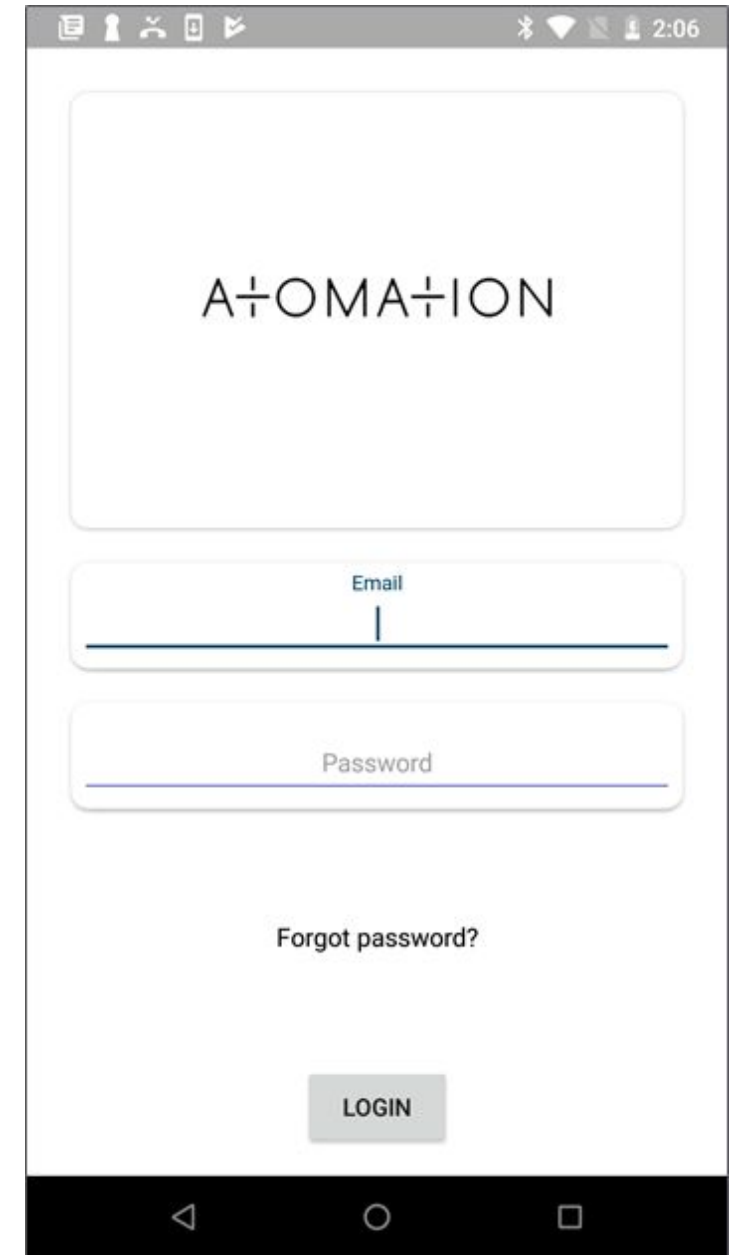
Login

Login using credentials provided by your representative and the password you created online.

Use the same credentials for **BOTH** the app and online dashboards.

The first time you log in, you will be asked to update your password.

If you need help accessing your credentials, use the Forgot Password option or contact your representative.



The screenshot shows a mobile application interface for login. At the top, there is a status bar with various icons and the time 2:06. Below this, the app's logo "A+OMAT+ION" is displayed in a large, light gray box. Underneath the logo, there are two input fields: one labeled "Email" and another labeled "Password". Both fields have a blue underline. Below the password field, there is a link that says "Forgot password?". At the bottom of the login area, there is a gray button labeled "LOGIN". The entire interface is set against a white background with a subtle gray border.

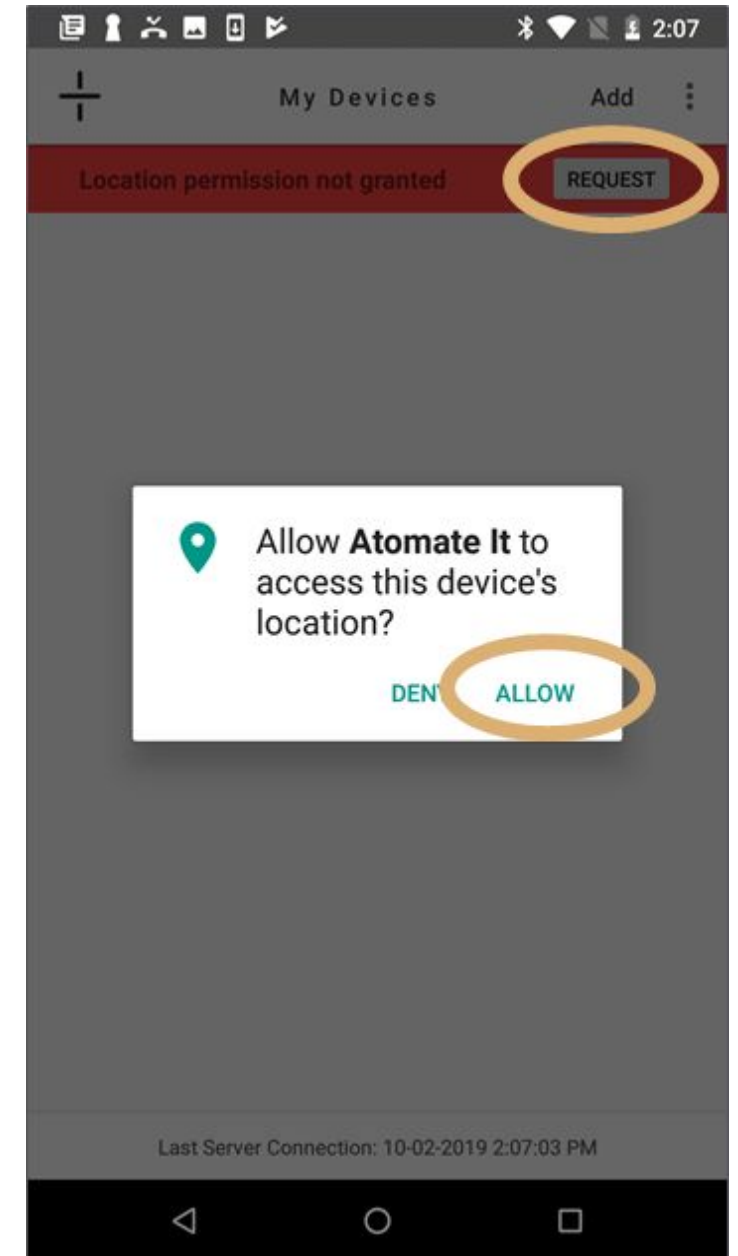
Allow Location

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 the Atomate It! app to access your location.

If you accidentally click deny, go to your Android's location settings, find Atomate It! and allow location.

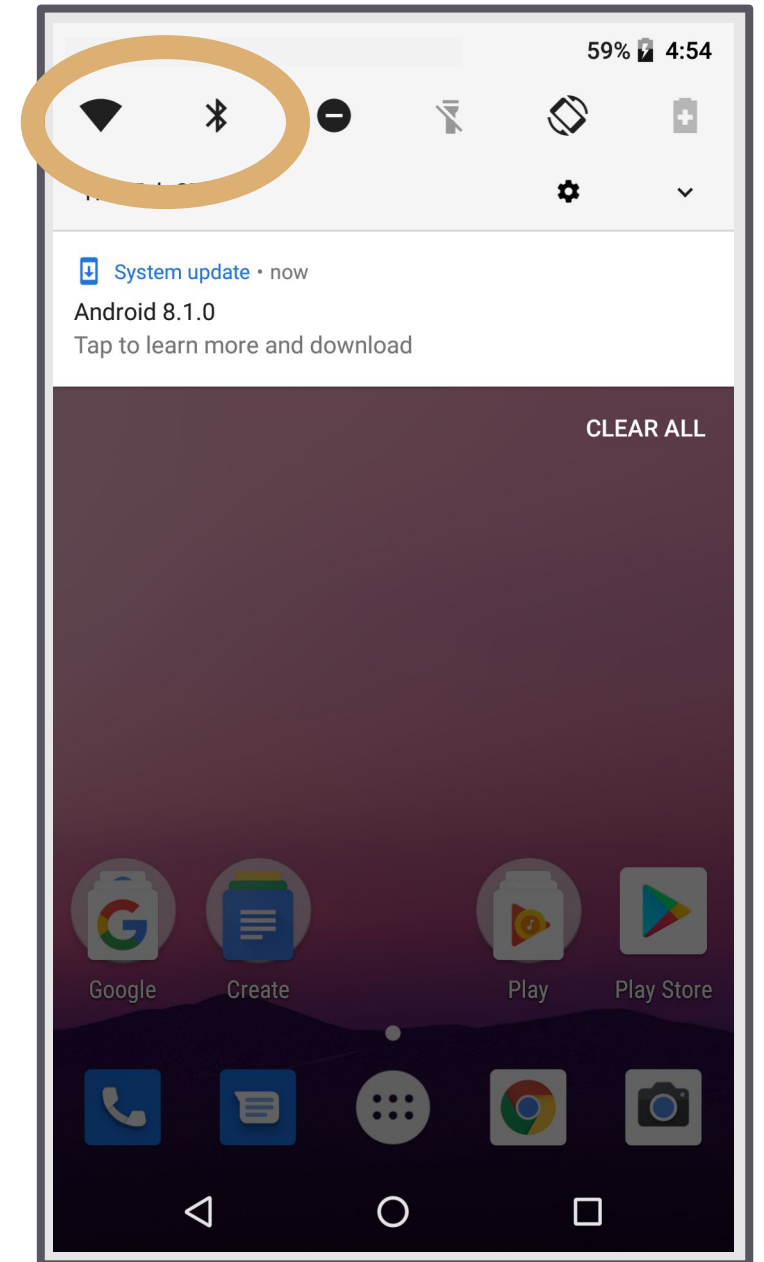


Helpful Hint

You must have Bluetooth enabled on your mobile device!

Users must have internet connectivity.

You will not be able to utilize app functionality without these settings turned on.



A grayscale photograph of an industrial robotic arm, likely a CNC machine, with a yellow triangular warning symbol on its side. The background is dark and slightly blurred, emphasizing the machine. A semi-transparent dark gray rectangle with rounded corners and a yellow border is overlaid on the image, containing the title text.

Adding Atoms

AT-U1.0c

Stand Alone Atom

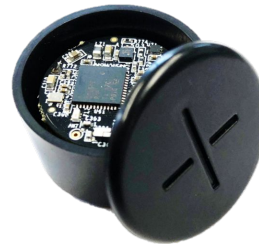
- Active/Idle/Off , Vibration, Temperature, Tilt, Impact, Power On/Off
- Temperature, Accelerometer, and EMF sensors
- Threshold based alerts
- LTE Cat-M1 cellular for direct communication to the cloud
- GPS location
- Easily attached to equipment
- Sealed enclosure with no maintenance
- Up to 7-year battery life with low battery level alerting



AT-C1.0

Circular Atom

- Active/Idle/Off , Vibration, Temperature, Tilt, Impact
 - Temperature and Accelerometer sensors
 - Threshold based alerts
 - Bluetooth Low Energy communication with Atomation Gateway
 - Easily attached to equipment
 - Sealed enclosure with no maintenance
 - 2-year battery life with low battery level alerting
- * GW required



AT-R1.0

Rectangular Atom

- Active/Idle/Off , Vibration, Temperature, Tilt, Impact, Power On/Off
 - Temperature, Accelerometer, and EMF sensors
 - Threshold based alerts
 - Connection to external sensors
 - Bluetooth Low Energy communication with Atomation Gateway
 - Easily attached to equipment
 - Sealed enclosure with no maintenance
 - 5-year battery life with low battery level alerting
- * GW required



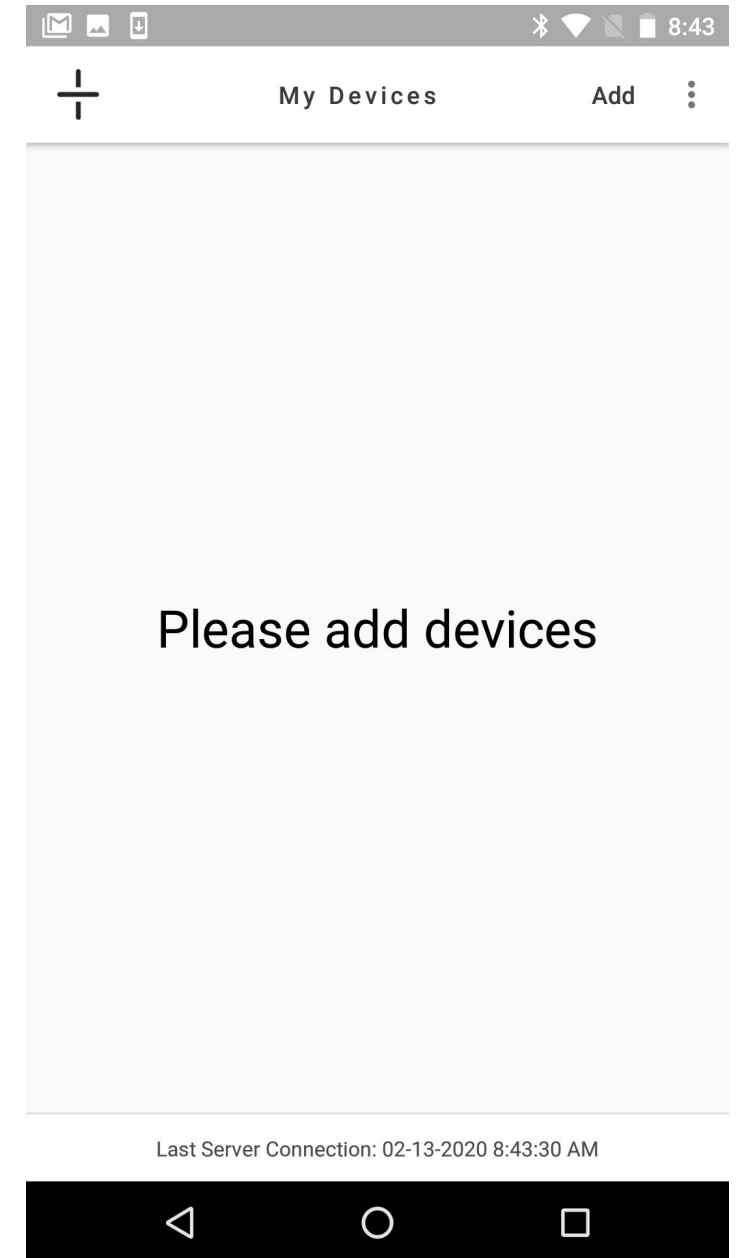
Add your Atom

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

Your Android device **must** have Bluetooth enabled and a cellular connection or be connected to WiFi in order to add an Atom. If you do not have an internet connection, the Add button will appear grey.

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

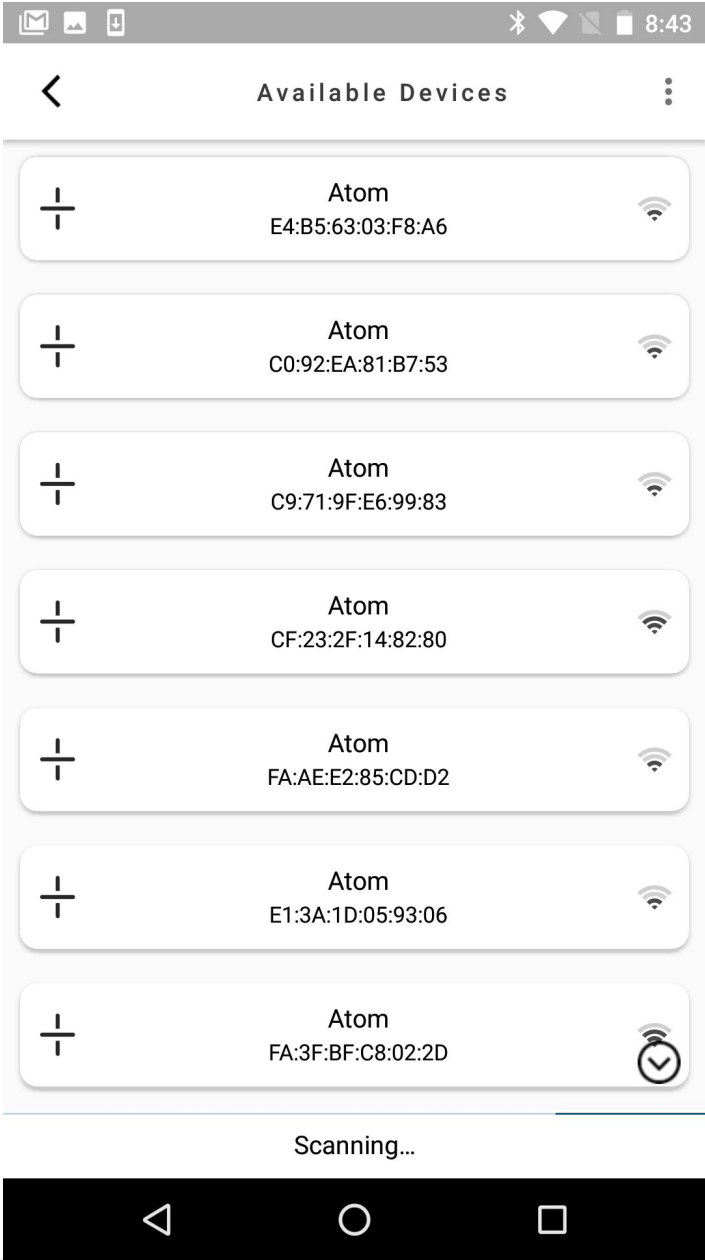
After tapping the **Add** button on the My Devices screen, the Available Devices screen will appear.

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. When Atoms are in Shelf Mode it can take a few minutes for the app to scan for the Atom signal.

Find the Atom that has the same last 4 numbers and letters that correspond with the last four digits of the MAC ID label on your Atom.

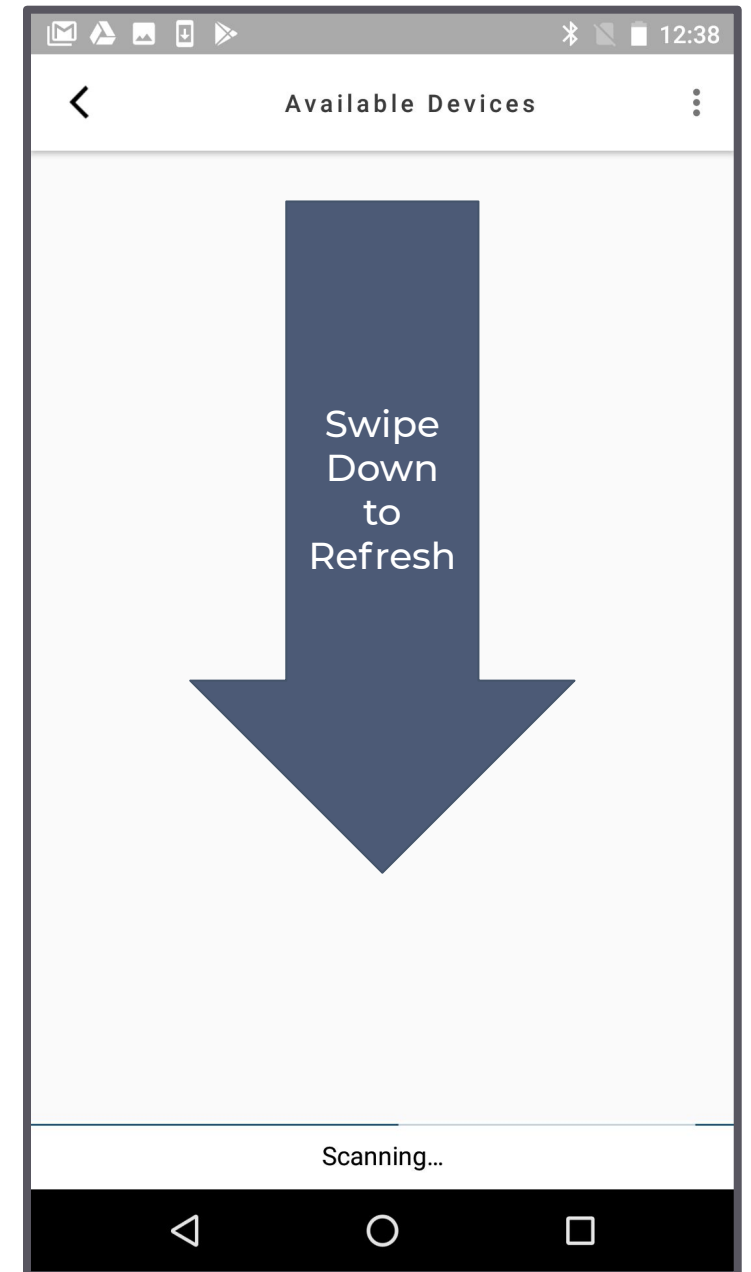
Tap the Atom on the screen to add it to your platform.



Helpful Hint

When first adding an Atom, if the app remains in scanning mode for over a minute without finding your Atom, swipe down on the Available Devices screen to refresh.

If you still do not see Atoms, tap the arrow to exit and tap Add to try adding again.



A grayscale photograph of an industrial robotic arm in a factory setting, overlaid with a dark gray semi-transparent rectangle. The text 'Activating Atoms' is centered within a yellow-outlined rounded rectangle on this background.

Activating Atoms

Activate your Atom

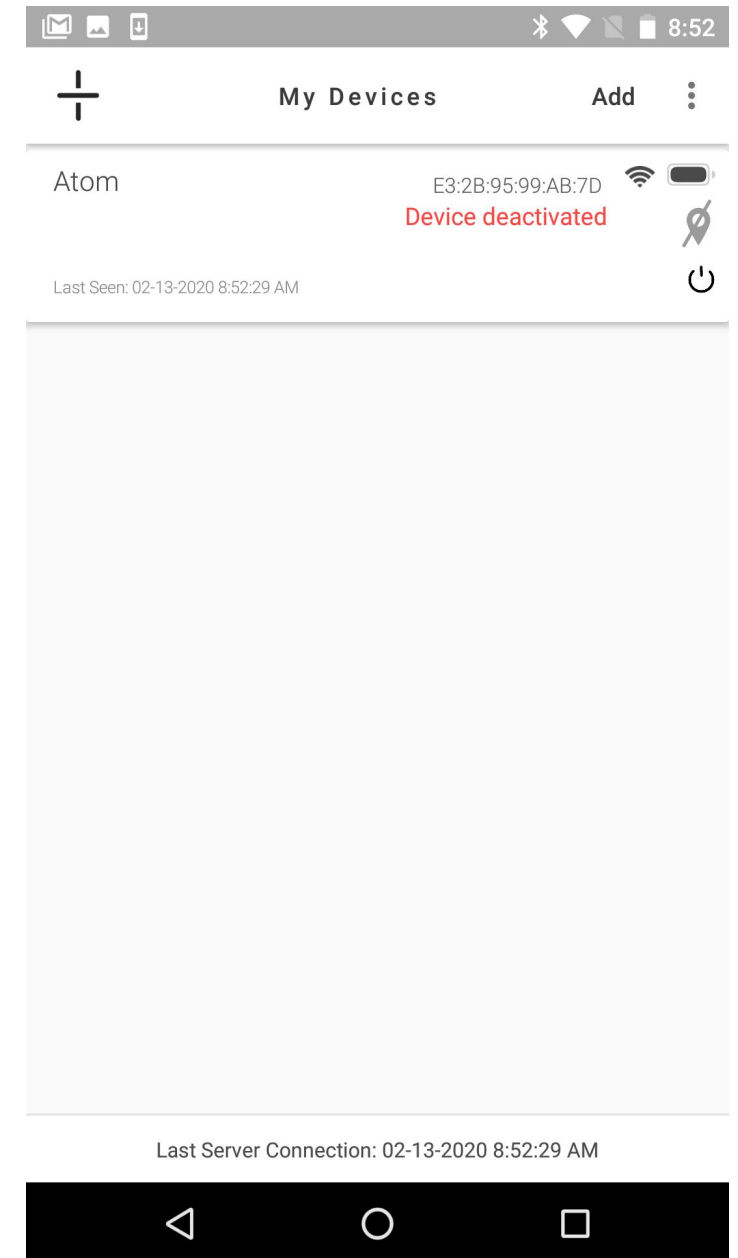
If your Atoms arrive in Shelf Mode, once an Atom is added a red **Device deactivated** message will appear.

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. You do not need to wait for each Atom to be activated before adding another.

When the red Device deactivated message disappears, your Atom is activated.

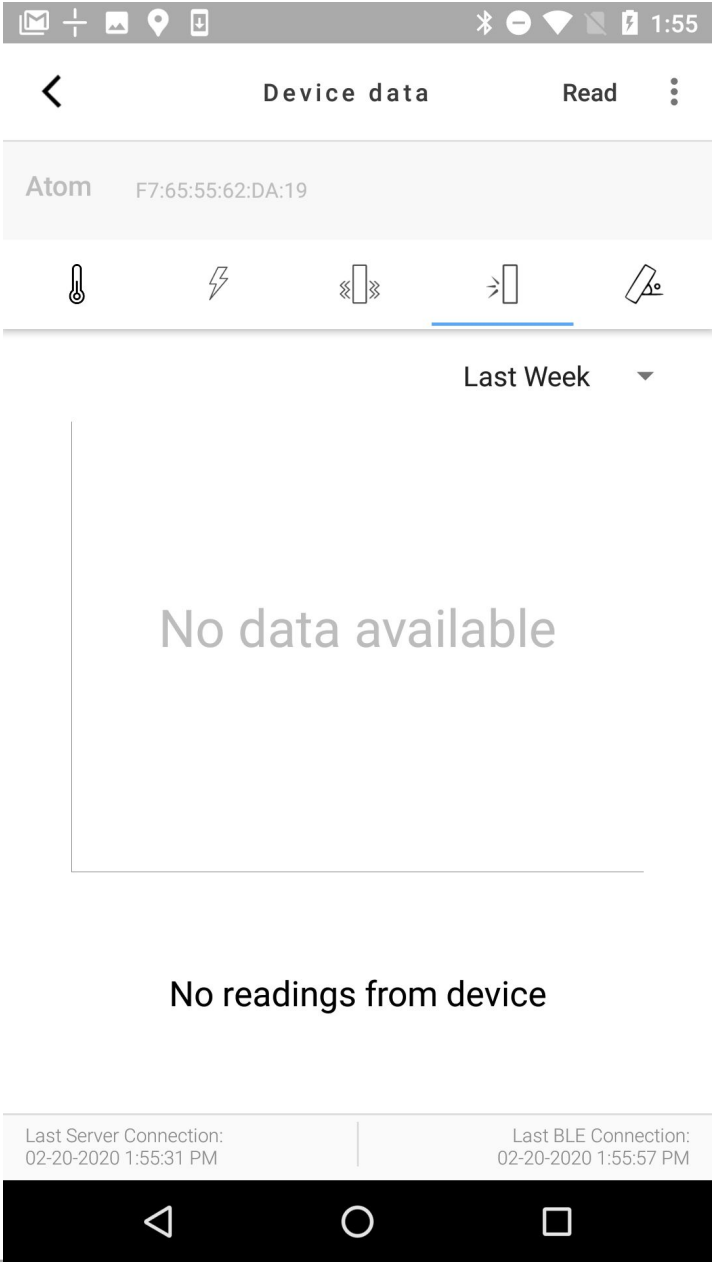


Take your First Reading

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

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

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



A grayscale background image of an industrial robotic arm, likely a CNC machine, with various mechanical components and a warning triangle symbol visible.

Working with the Atomate It! App

Access Your Atoms

The My Devices screen allows you to view all Atoms associated with your account.

Each Atom shows:

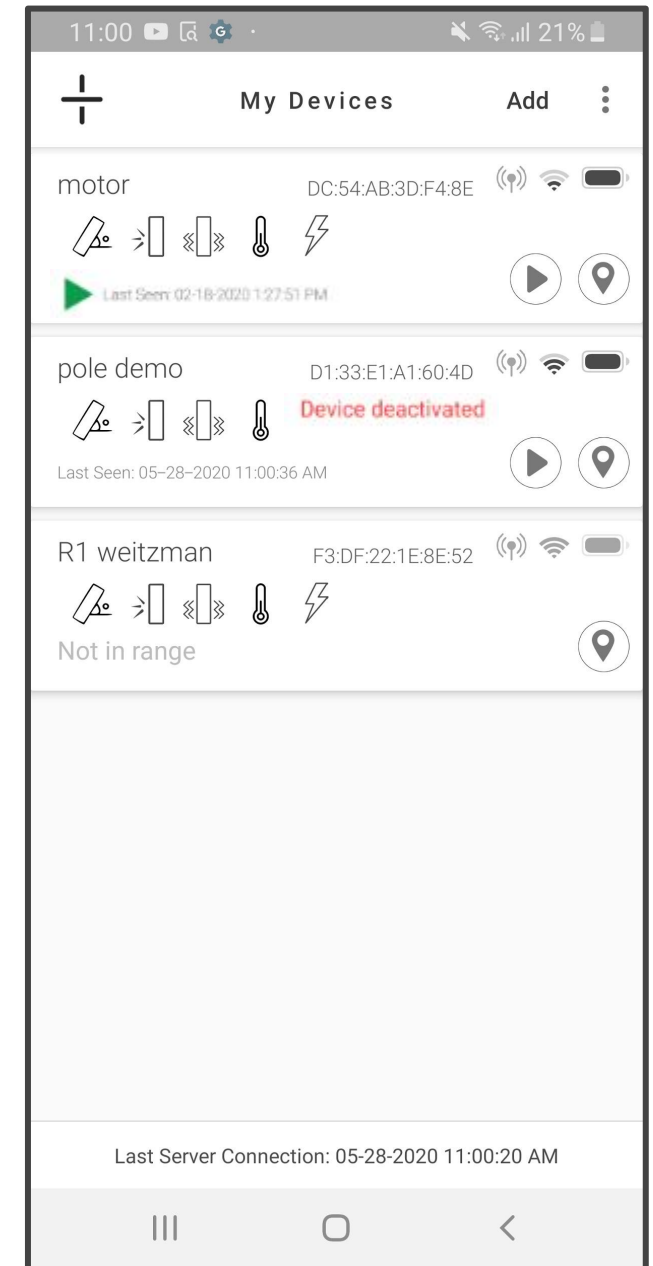
- Name and Mac ID
- Icons for active sensors
- Local signal strength
- Battery level
- Location
- Last Seen: the time the Atom last communicated with the platform

When Atoms are in range, you can tap them to view graphs and sensor data.

You can also see which devices are using cellular vs. BLE. AT-C1.0 and AT-R1.0 Atoms will only show when connected to a Gateway.

If your Atoms arrive in Shelf Mode, once an Atom is added a red **Device deactivated** message will appear.

Activate your Atom by tapping the power button.



View Readings Graphically

You can view a graph of recordings from each sensor.

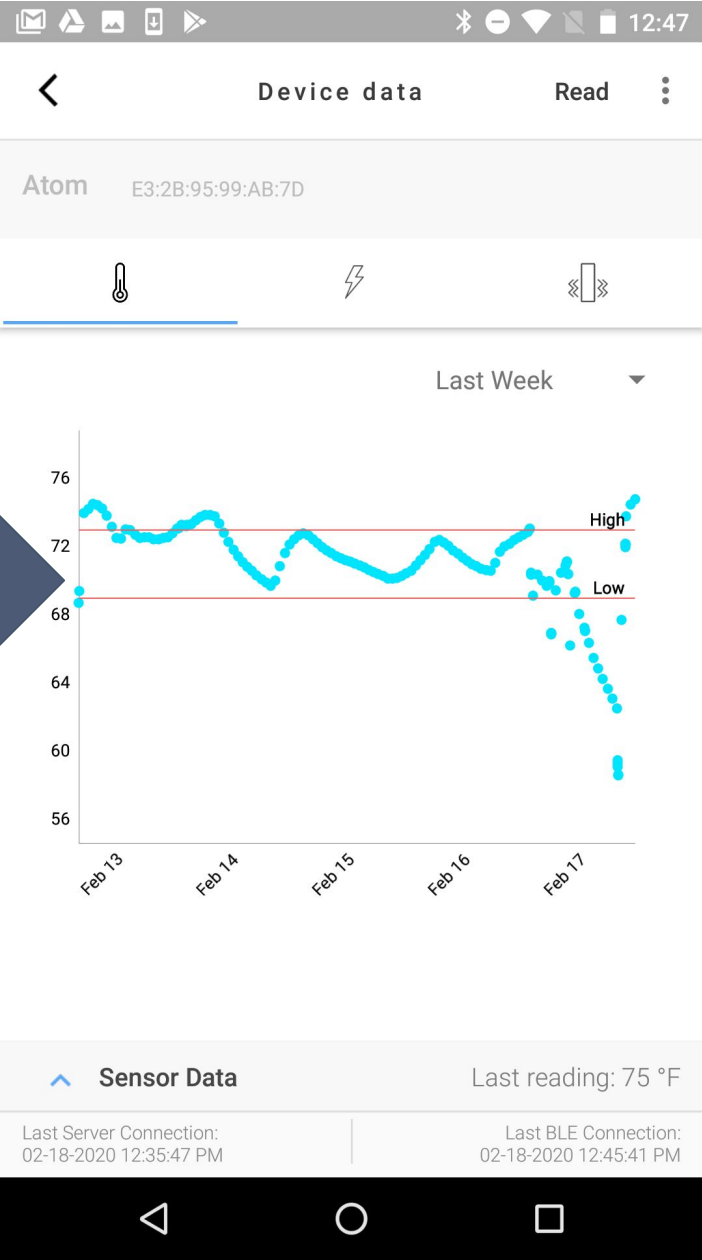
Tap the sensor icon of the graph you wish to view. The sensor selected will be underlined in blue.

Sensor thresholds are represented as red lines across sensor graphs. Adjust thresholds in Device Settings to reflect optimal conditions for your equipment.

The default date range is last week. Change date range by tapping the down arrow and the graph will automatically reflect changes.

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 (underlined in blue). Tap the icon of the sensor you wish to view.

Samples recorded by a trigger event appear highlighted in red.

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

Sensors with threshold capabilities will show threshold status.

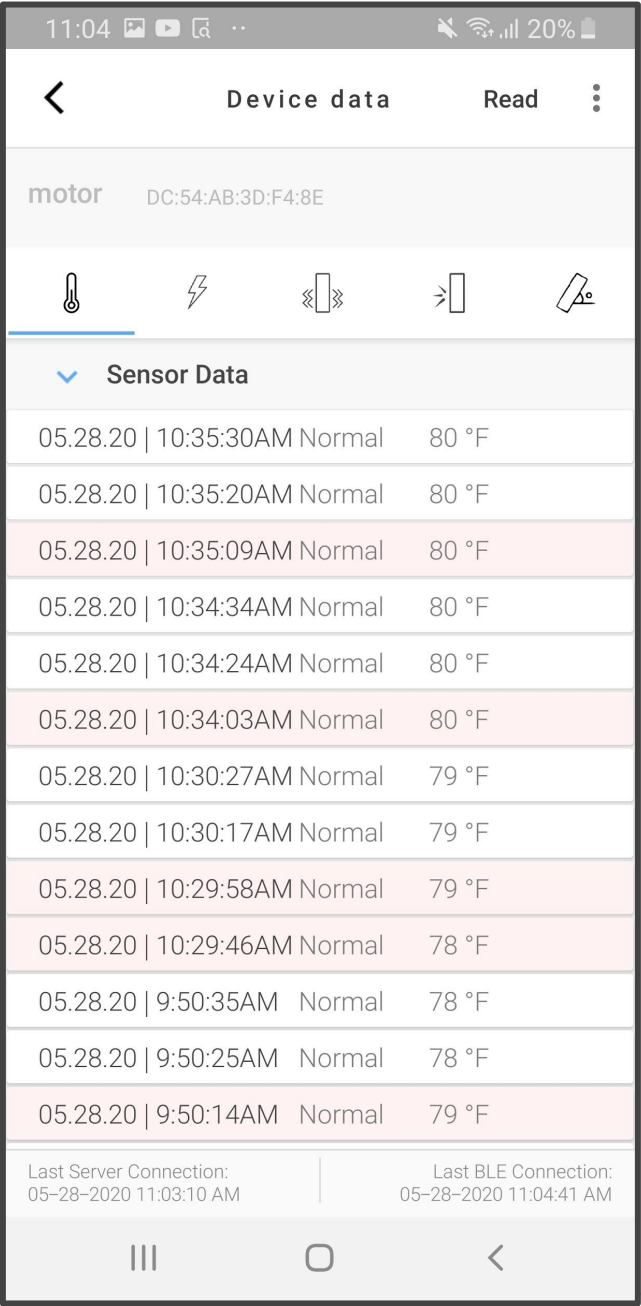
Sensor reading shows the value and units of the sample recorded.

Last Server Connection shows the last time the app connected to the server.

Last BLE Connection shows the last time the app connected to the Atom.

Readings with the cloud icon are in the process of being uploaded to the cloud. When the cloud icon disappears, the reading will be available online.

Tap v Sensor data to return to graph view.



A grayscale photograph of an industrial robotic arm, likely a CNC machine, with a yellow triangular warning symbol on its side. The background is a dark, solid color.

Configuring Atoms

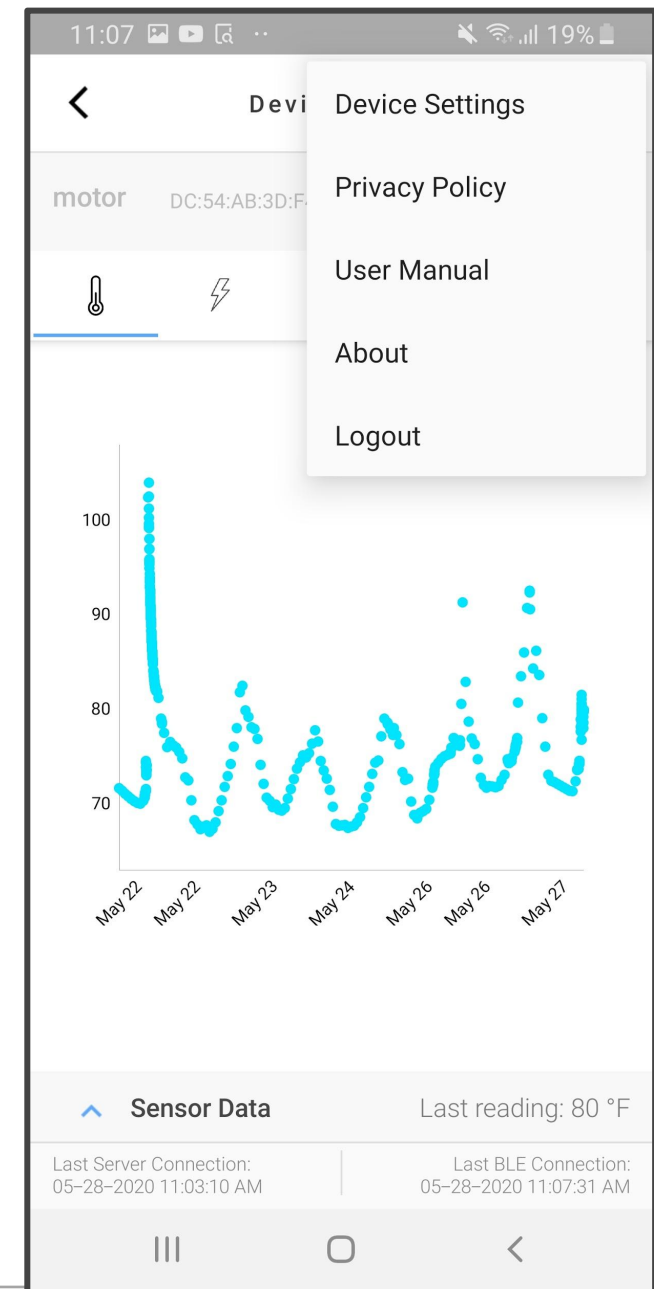
Access Device Settings

Select the Atom you wish to configure on the My Devices screen.

Tap the **three dots** on the top right of the screen to access Device Settings.

Select **Device Settings** from the menu.

Atom must be in range to access Device Settings.



Device Settings

Name

Name Your Atom specific to the equipment the Atom will be monitoring

Sensor Configuration

Turn sensors on/off, set thresholds and configure sample times.

Timers

Control how often Atoms record samples and number of samples taken after an event.

Location

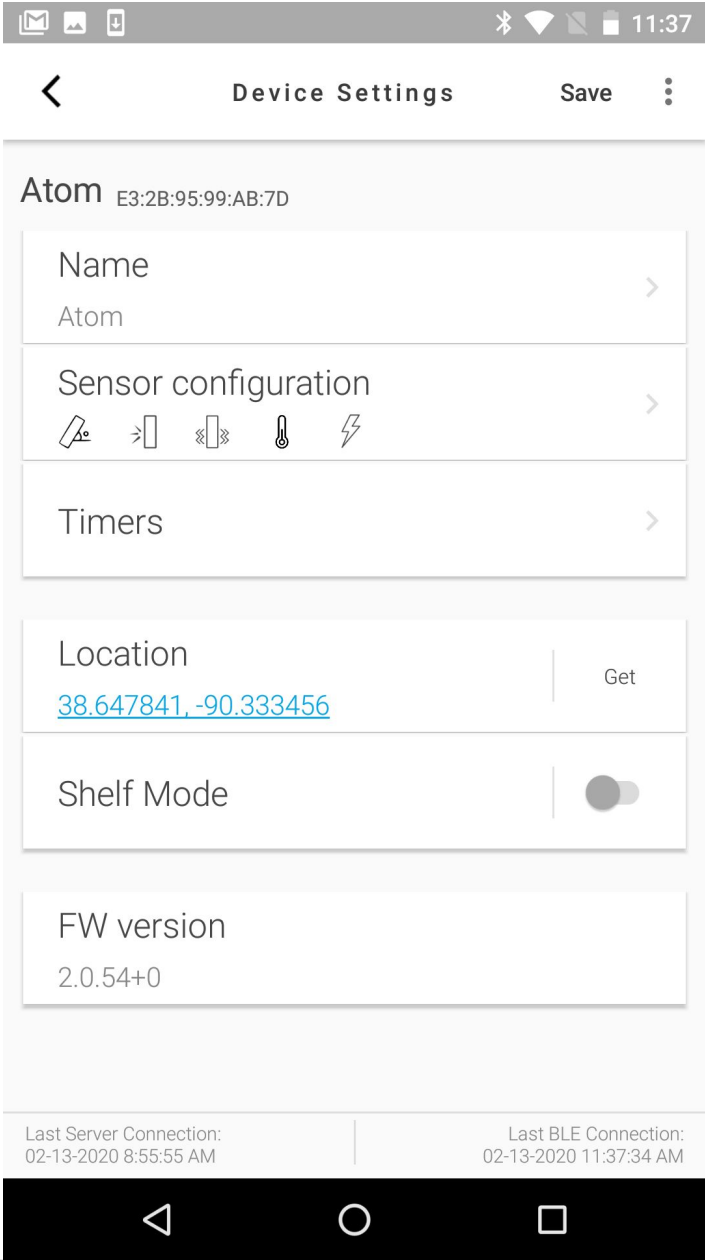
Tap Get to set location of Atoms using the mobile phones GPS. If location is not set using the app, the Atom location will be set as the Gateway location.

Shelf Mode

Turning on Shelf Mode deactivates Atoms to conserve battery life. Only turn on shelf mode for Atoms not in use. While in shelf mode, no samples will be taken and sensors will not monitor for events.

FW Version

Firmware version on Atom. If an issue arises, reference the FW Version when requesting support.



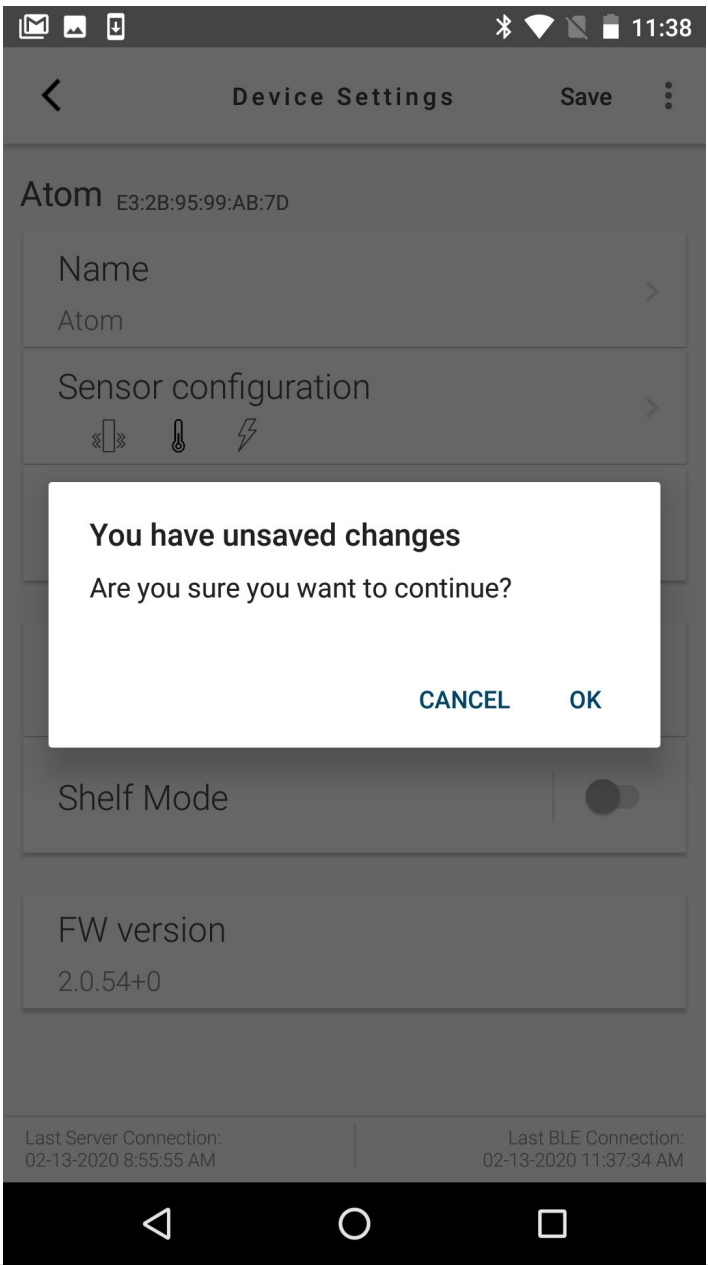
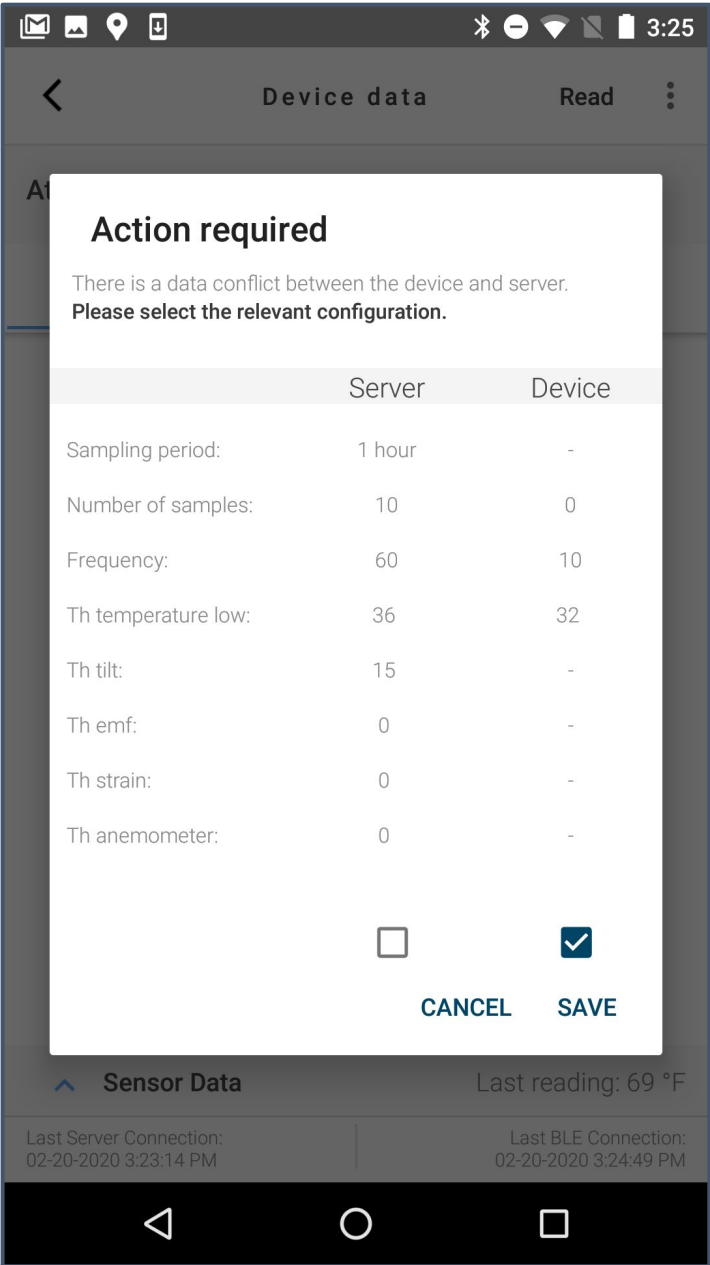
Action Required

Atoms can be configured using online dashboards as well as the Atomate It! app. If a user changes a setting online, then goes to device settings, you will see a message stating action required.

This allows users to choose if they want the configuration done from the online server or from the app directly to the device. Select Server or Device and click Save.

Save Your Changes

If a message appears saying “You have unsaved changes,” click cancel then save your changes and exit. If you click OK, you will return to the Device Data screen without saving your changes.



A grayscale background image of an industrial robotic arm, likely a CNC machine, with various mechanical components and a warning triangle symbol visible. The image is semi-transparent, allowing the text to stand out.

Sensor Configuration

Sensor Configuration



Temperature

Monitors equipment and environmental temperature.



Vibration SD

Monitors vibration and machine usage using Standard deviation of 3 Axis (XYZ) Accelerometer.



High G

Monitors the intensity of an impact or acceleration using G force.



Tilt

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



EMF

Determines presence/absence of an Electromagnetic Field.



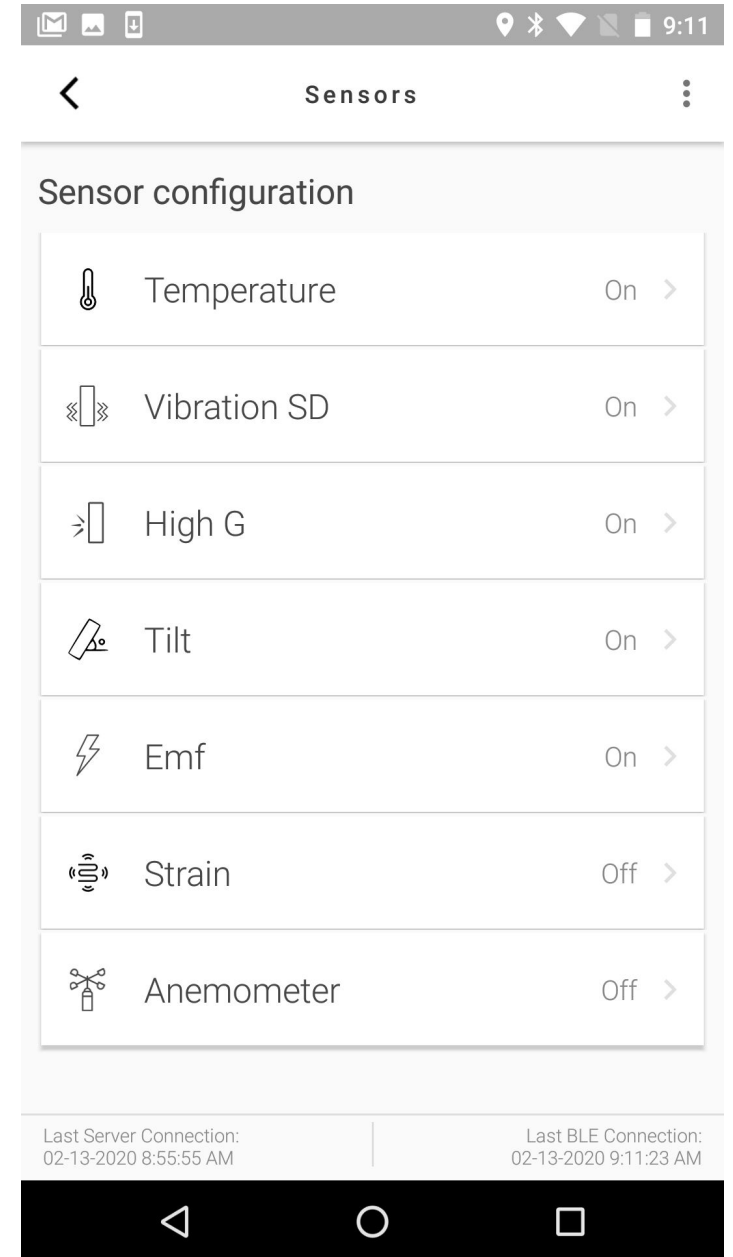
Strain

External connection required.



Anemometer

External connection required.



Temperature

Monitors equipment and environmental temperature.

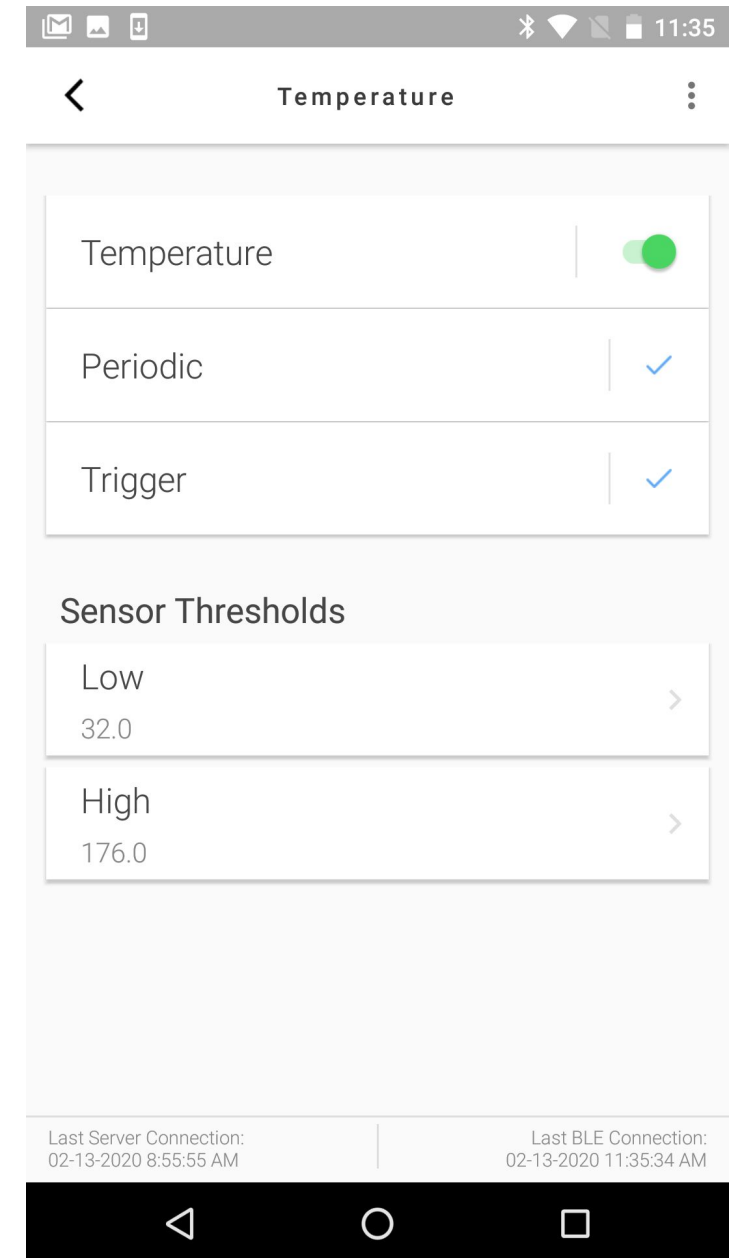
User can turn sensors on and off.

Turn on Periodic readings to take temperature reading based on specified time increments. This can be used to replace manual temperature logging.

Turn on Trigger readings to allow Atoms to sense in the background and record samples when a threshold is met.

The low temperature threshold triggers the Atom to take a reading when an Atom reaches a low temperature.

The high temperature threshold triggers the Atom to take a reading when Atom reaches a high temperature.



Helpful Hint

Use the Get Button to take a reading and automatically input the current sensor readings as the desired threshold.

Example: When working with machinery, turn the machine on to its idle state then tap Get next to Idle. Then start running your machine on its active state and tap Get next to Active.

The screenshot shows a mobile application titled "Vibration SD - Thresholds". At the top, there is a status bar with various icons and the time 10:42. Below the title bar, there are two input fields for thresholds. The first field is labeled "Idle" and contains the value "0.4", with a "Get" button to its right. The second field is labeled "Active" and contains the value "1.0", also with a "Get" button to its right. Below these fields is a numeric keypad with digits 1-9, 0, a decimal point, and a comma. There are also buttons for a minus sign, a right bracket, a backspace (X), and a blue button with a right arrow and an equals sign (→=). The bottom of the screen shows the standard Android navigation bar with back, home, and recent apps icons.

Vibration SD

Monitors vibration and machine usage using Standard deviation of 3 Axis (XYZ) Accelerometer.

User can turn sensors on and off.

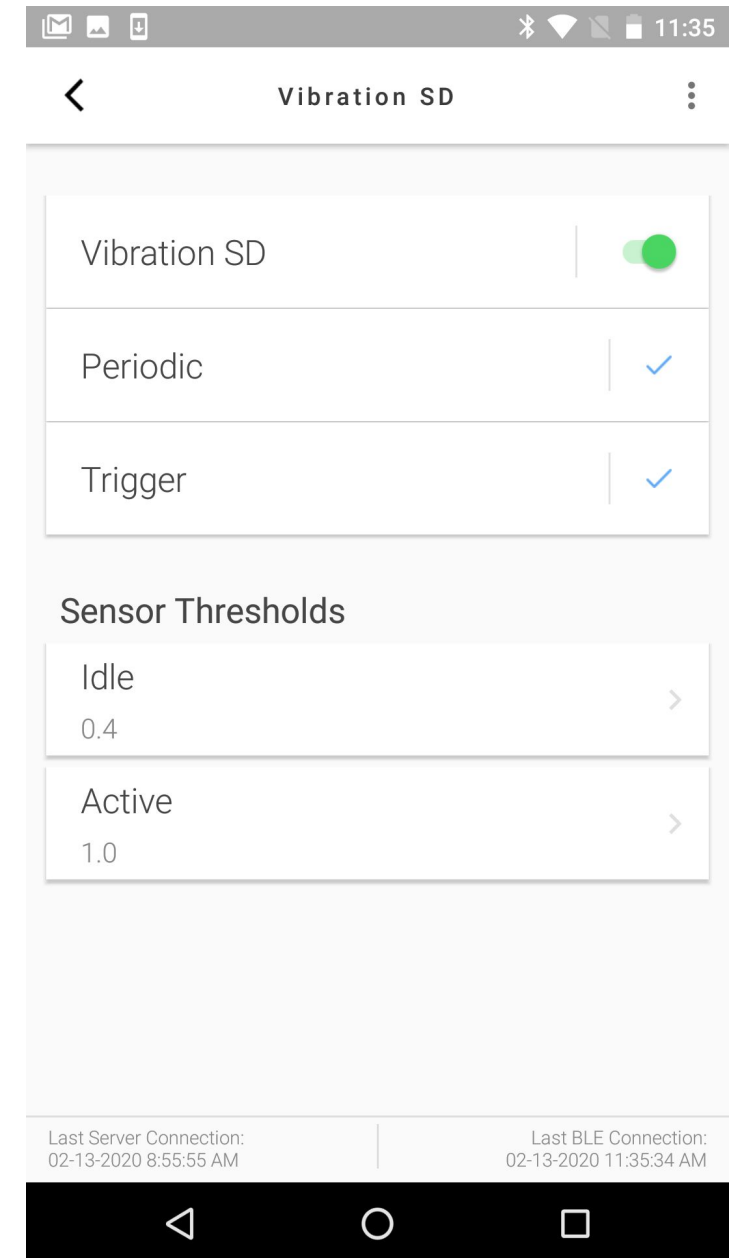
Turn on Periodic readings to take vibration reading based on specified time increments.

Vibration thresholds are used to understand usage based on how long machines are working in idle, active or off. Usage reports are available on online dashboards.

Turn on Trigger readings to allow Atoms to sense in the background and record samples when a threshold is met.

Set the idle threshold to the vibration level your machine reaches when idling. This triggers the Atom to take a reading when your machine is idling.

The active vibration threshold sets the Atom to take a reading when your equipment is actively working.



Impact

Monitors the intensity of an impact or acceleration using G force.

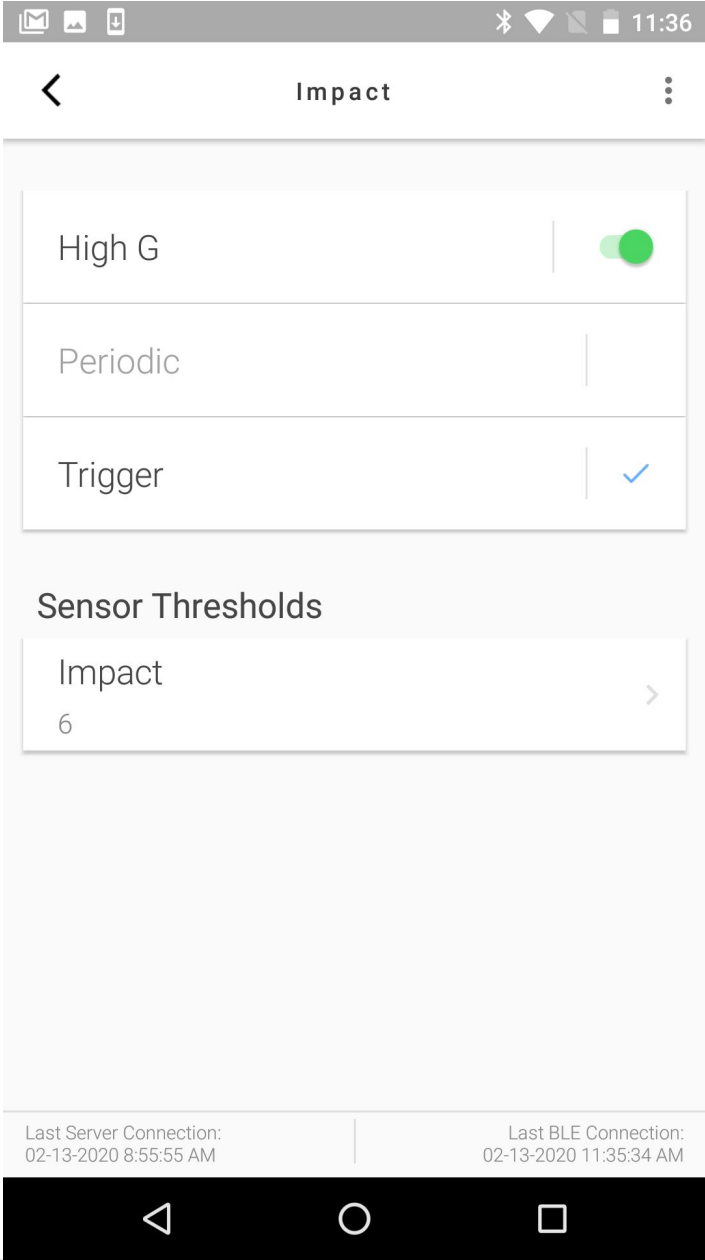
User can turn sensors on and off.

Periodic readings are not available for the impact sensor.

Turn on Trigger readings to allow Atoms to sense in the background and record samples when an impact occurs.

Set the Impact threshold to determine the intensity of an impact you wish to trigger the Atom to record.

Setting impact thresholds too low can result in too many trigger readings.



Tilt

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

User can turn sensors on and off.

Periodic readings check the Atom angle based on specified time increments.

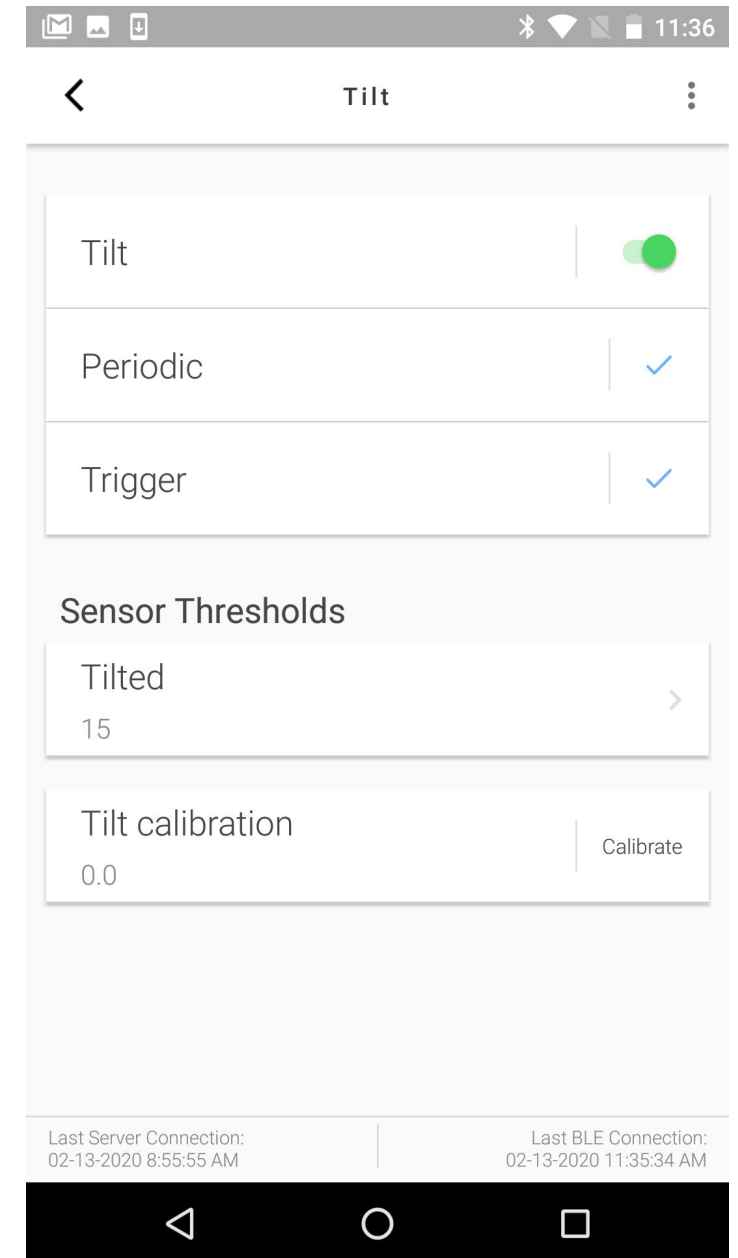
Turn on Trigger readings to allow Atoms to sense in the background and record samples when the angle changes.

Set the Tilt threshold to trigger the Atom to record a sample when the position changes. Enter the degree value that you want the Atom to record.

Calibrate

Tap the **Calibrate** button to set the initial Atom position.

Readings are shown as degree change from the calibrated angle. If angle is not calibrated, readings are shown as change from 0°.



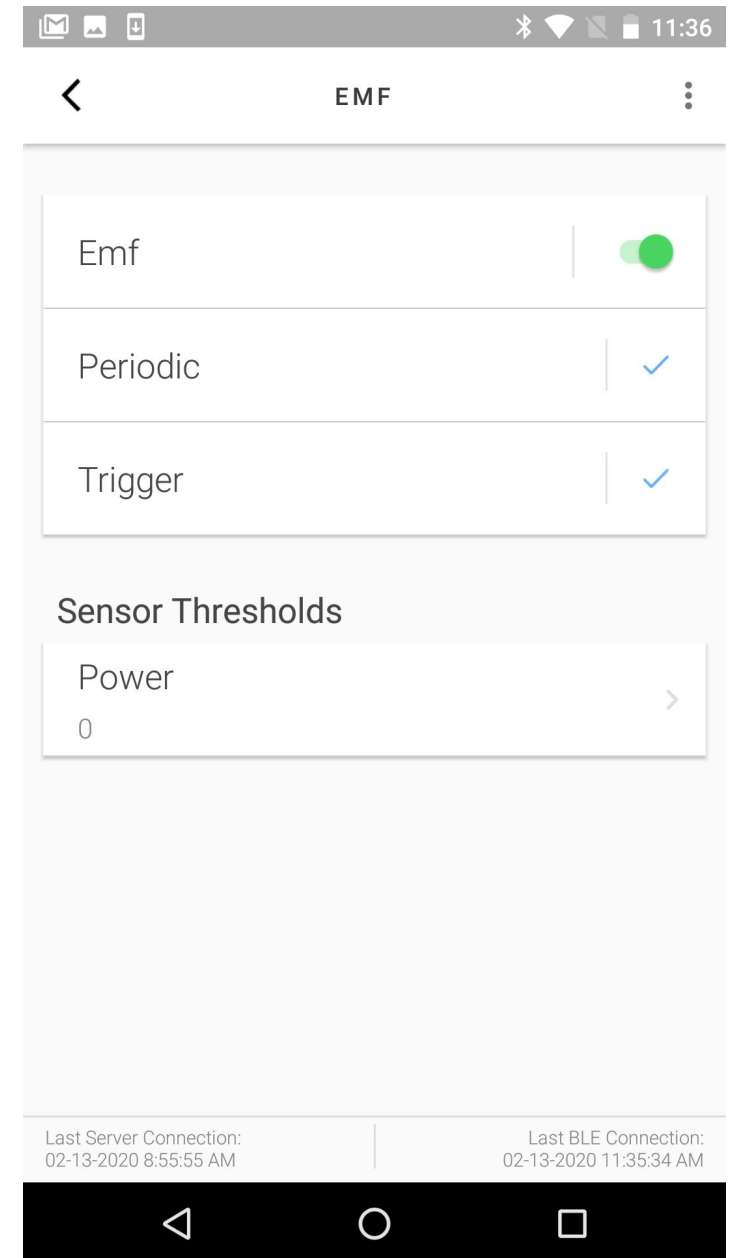
EMF

Determines presence/absence of Electromagnetic Field.

User can turn sensors on and off.

Turn on Periodic readings to take EMF reading based on specified time increments.

The Power threshold triggers the Atom to take a reading when the EMF is no longer detected.

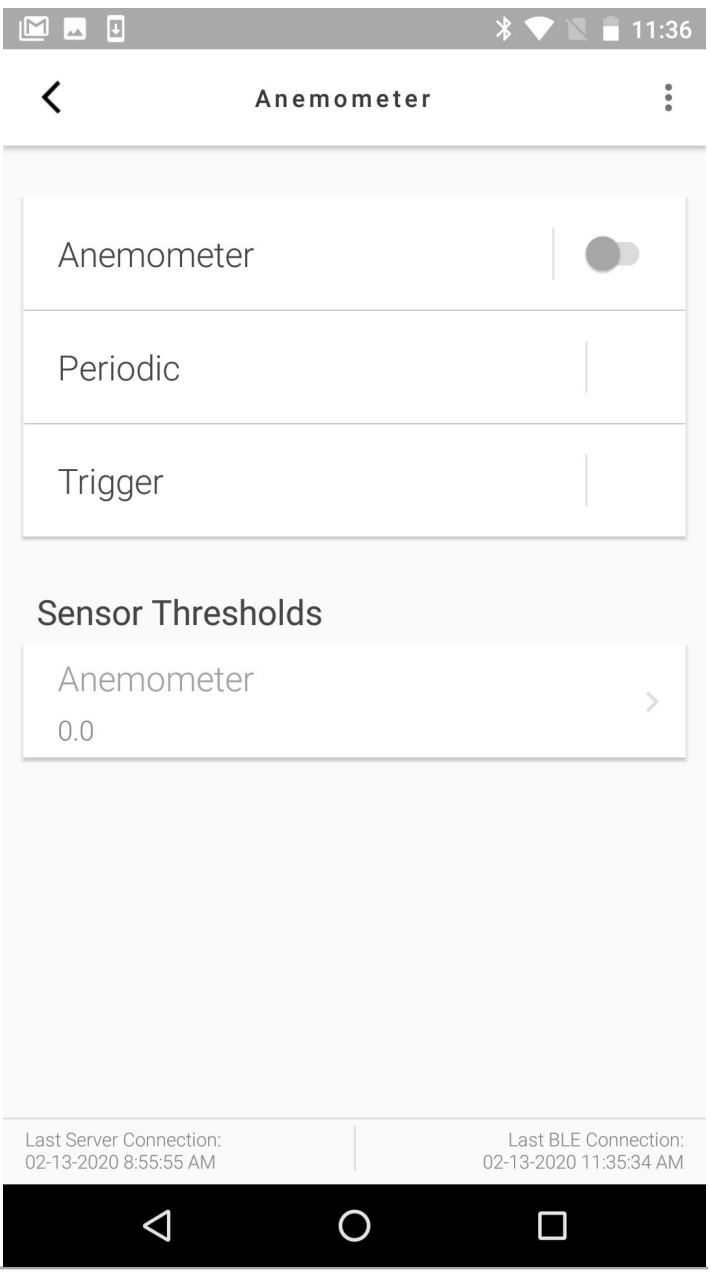
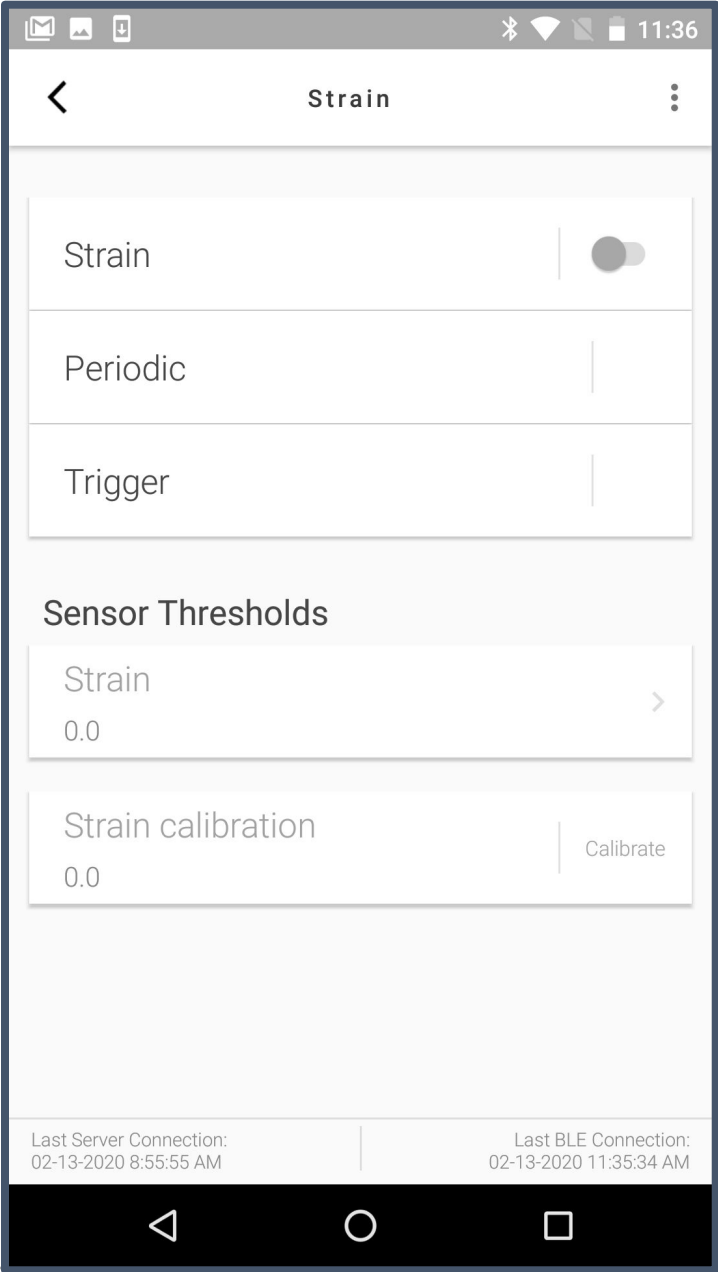


Strain and Anemometer

External connection required.

Sensors cannot be activated by users without the external connection and specific FW Version on the Atom.

Contact your representative for information on additional external sensors.



A grayscale photograph of an industrial robotic arm, likely a CNC machine, with a yellow triangular warning symbol on its side. The arm is positioned over a worktable. A semi-transparent dark gray box with a yellow border is overlaid on the image, containing the word 'Timers' in white text.

Timers

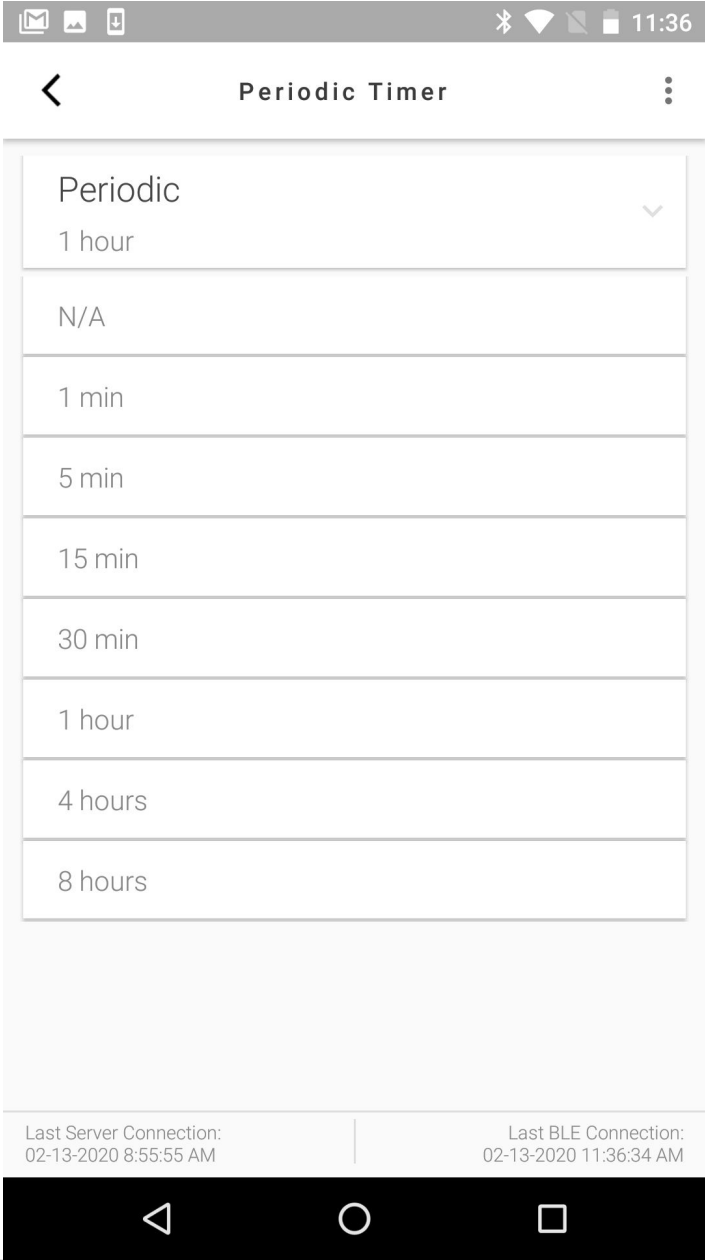
Periodic Timer

The periodic timer allows users to set Atoms to record samples based on specific time intervals.

Depending on the equipment you are monitoring, periodic samples should be turned off or set to a specific time.

Setting the periodic timer to N/A turns periodic readings off for all sensors and Atoms will only record triggered samples.

Increasing number of samples directly impacts battery life. Atoms may not meet suggested battery expectancy if the periodic sample time is set to less than 1 hour



Event Timer

Event Check Frequency

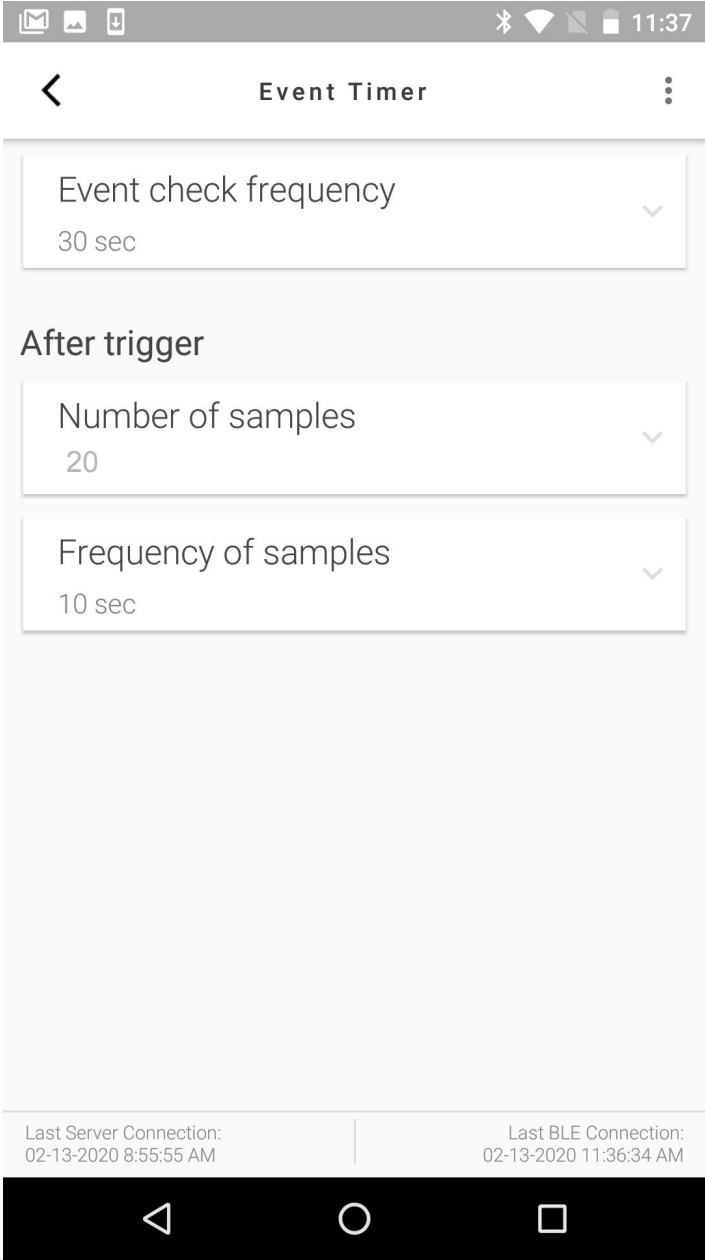
Event check frequency tells the Atom to trigger only when the event exceeds the set duration.

After Trigger

Number of samples triggers Atoms to record a specific number of samples after an event occurs. Atoms can record up to 20 samples after a trigger event

Frequency of samples determines how quickly you would like the Atom to record the set number of samples after a trigger event.

Example: If your machine temperature reaches the high threshold, the Atom will record a sample every (10) seconds and record (20) samples.



A grayscale photograph of an industrial robotic arm, likely a CNC machine, with a yellow triangular warning symbol on its side. The background is dark and slightly blurred, emphasizing the mechanical components.

Thank You