

ATOMATION.net

Atomation Online Dashboards and Analytics

A÷OMATION

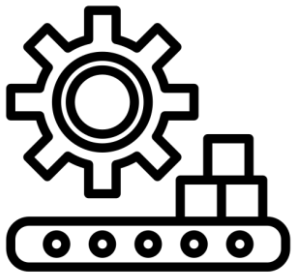
Atomate It!

Welcome to the Atomation™ platform!

This manual guides users through the Atomation's online dashboards and analytics. Atomation's cloud database allows you to access information about your equipment anytime anywhere.

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

Pages

- [Login to Atomation Online](#)
- [Dashboard](#)
- [Vibration](#)
- [Impact](#)
- [Temperature and Humidity](#)
- [Vibration Duration](#)
- [Vibration Pie Chart](#)
- [Map](#)

Controls

- [Selecting an Atom](#)
- [Setting Up Alerts](#)
- [Changing Date Range](#)
- [Changing Temperature Units](#)
- [Downloading Data](#)
- [Reading Type](#)
- [Sensor Samples](#)

A+OMATION	
 Dashboard	
Sensors 	
 Vibration	
 Impact	
 Acc Raw Report	
Graphs 	
 Temp & RH	
 Raw Data Table	
Analytics 	
 Vibration Duration	
 Vibration Pie Chart	
Map 	
 Map	

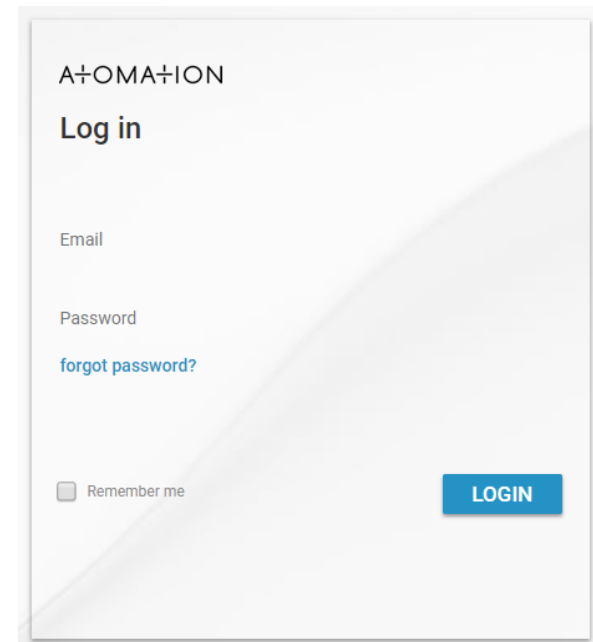
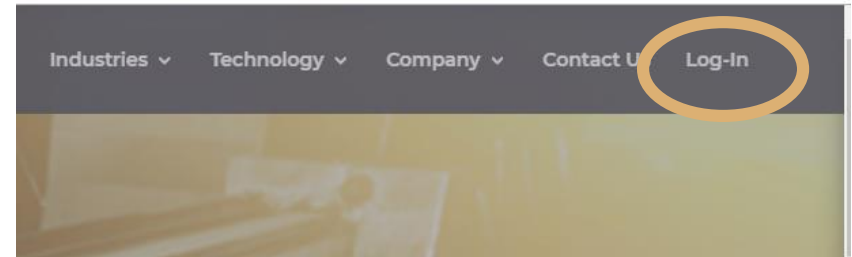
Atomation Navigation Bar is located on the left of all pages.

Use Down arrows to view pages.

Click the page name from the list to view that page.
























Login to Atomation Online

- Go to Atomation.net and click the Login button on the far right of the navigation bar, or type in <https://analytics.atomation.net:3001/login>
- Use the provided login credentials from Atomation, these are the same credentials used for the Atomate It App

A screenshot of the Atomation login form. The form is white with a light grey background. It features the Atomation logo at the top, followed by the text 'Log in'. Below this are input fields for 'Email' and 'Password'. A link for 'forgot password?' is located below the password field. At the bottom left, there is a checkbox labeled 'Remember me'. A blue 'LOGIN' button is positioned at the bottom right of the form.

Dashboard

Dashboard

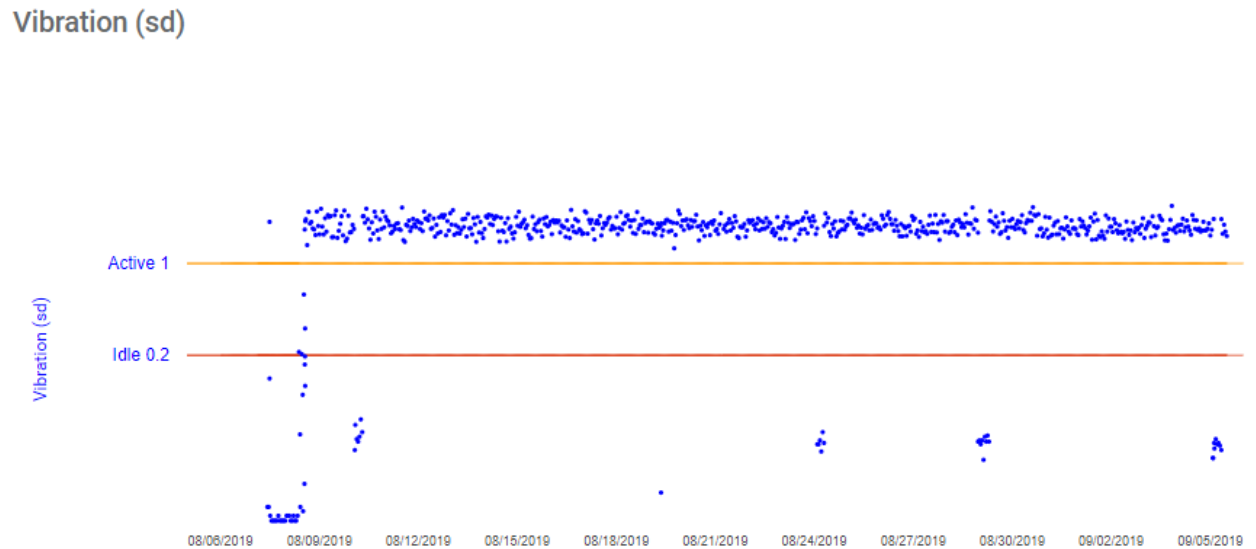
NAME	MAC	BATTERY (%)	LOCATION	LAST UPDATE	ACTIVE SENSORS	CONTACTS
feeder 59	00:81:F9:A4:40:FF	100	38.395, -89.380	08/09/2019 12:34:17 PM	    	
pit fan 5	00:81:F9:A4:40:B8	100	38.395, -89.380	08/09/2019 12:31:50 PM	    	
bin 2 down	00:81:F9:A4:40:E6	100	38.456, -89.343	08/09/2019 12:10:52 PM	    	
Vibration Monitor	00:81:F9:A4:3F:77	100	38.456, -89.343	08/09/2019 12:10:13 PM	    	

Dashboards show a list of all Atoms associated with your accounts.

- **Name:** Name assigned to the Atom by user, names should reference the equipment being monitored
Click the Atom name to access raw data readings from that Atom
- **MAC:** MAC ID Number to identify the Atom
The last 4 digits of the MAC ID correspond with the MAC ID label on your Atom
- **Battery:** Atom battery level
- **Location:** Location of Atom from last time user pressed 'Get' on app
- **Last Update:** Last upload from device to cloud
- **Active Sensors:** Icons representing what sensors are turned on
- **Contacts:** Add contacts to manage alerts

Vibration

Vibration charts show the vibration levels of your equipment over time.

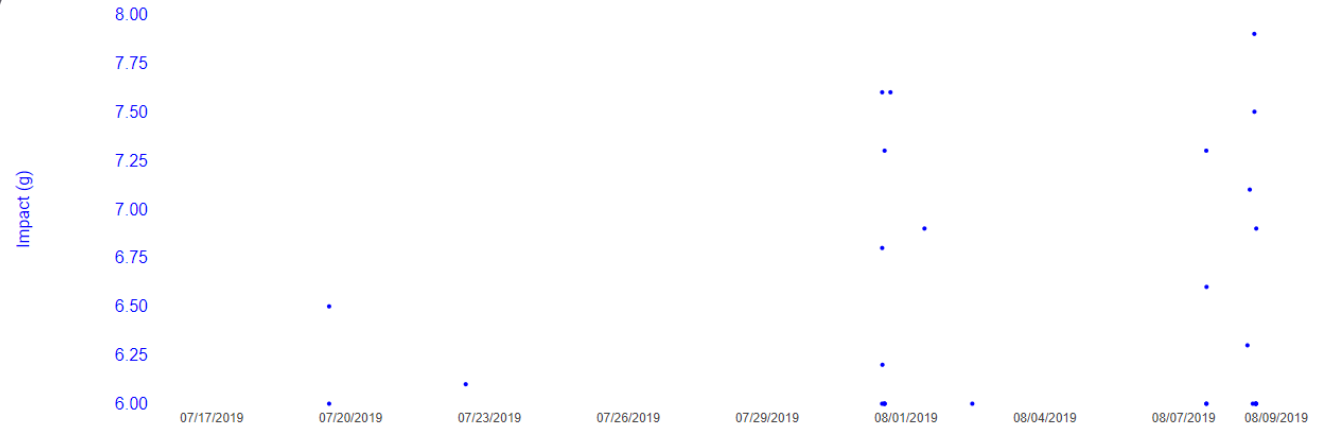


- Idle Vibration Threshold is displayed with red bar across the graph
- Active Vibration Threshold is displayed with yellow bar across the graph
- Thresholds are setup and changed in the Atomate It App

Impact

Impact (g)

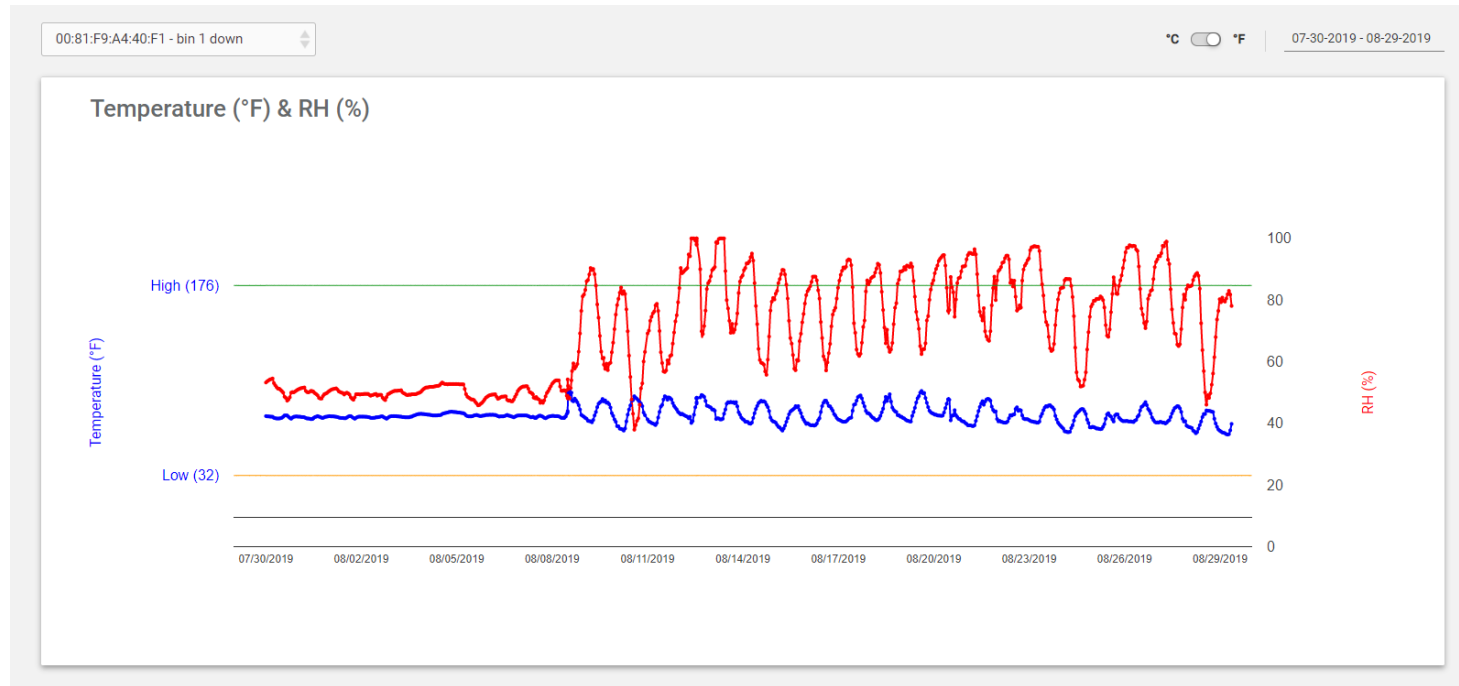
Impact charts show points when an impact occurred at what level over time.



- The axis on the left represents G force of an impact
- Impact is only recorded when G force exceeds threshold
- Threshold level set in the Atomate It App

Temperature and Relative Humidity Graph

Temperature and RH% graph shows change over time.



- **Temperature-** Temperature is represented with the left axis and the blue line
- To change between °F and °C use the switch in the top right
- **High temperature** threshold is represented as a green bar across the graph
- **Low temperature** threshold is represented as a yellow bar across the graph
- **RH%-** Percentage relative humidity is represented with the right axis and a red line

Raw Data Table

The Raw Data tables allows users to view all sensor readings and data from that Atom.

00:81:F9:A4:40:97 - pit fan 4 °C °F 07-17-2019 - 08-09-2019

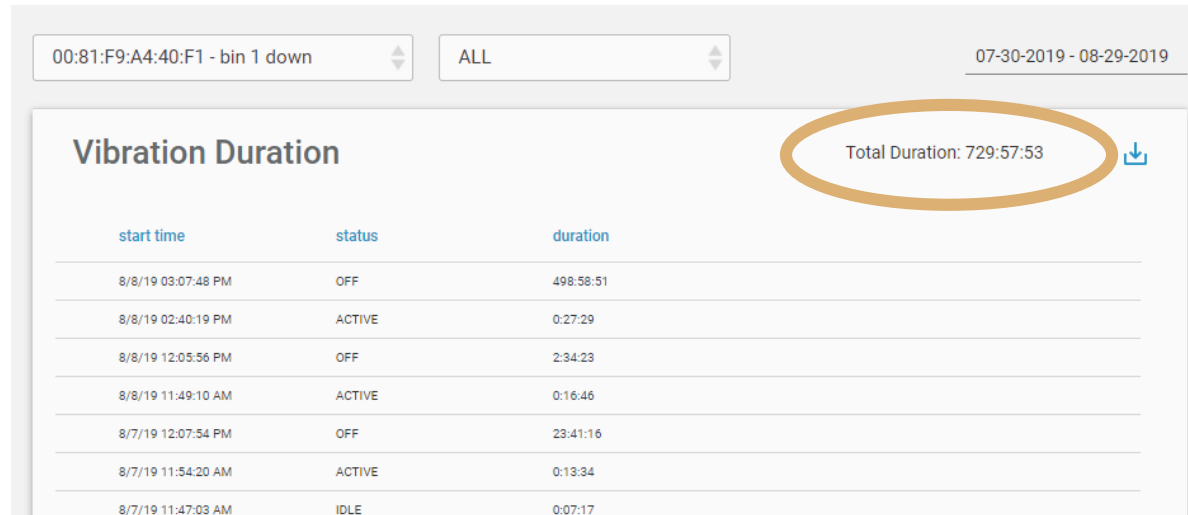
Raw Data ↓ 1 of 2 pages << >>

NAME	MAC	DATE TIME	READING TYPE	VIBRATION (SD)	TEMPERATURE (°F)	RH (%)	BATTERY (%)	IMPACT (g)	External Battery (%)	LOCATION
pit fan 4	00:81:F9:A4:40:97	8/9/19 11:10:54 AM	Periodic	0.567 [IDLE]	100.6	51.4	100			NA
pit fan 4	00:81:F9:A4:40:97	8/9/19 10:10:54 AM	Periodic	0.52 [IDLE]	99.1	54	100			NA
pit fan 4	00:81:F9:A4:40:97	8/9/19 09:10:54 AM	Periodic	0.528 [IDLE]	97.7	56.2	100			NA
pit fan 4	00:81:F9:A4:40:97	8/9/19 08:10:54 AM	Periodic	0.458 [IDLE]	95.2	57.2	100			NA
pit fan 4	00:81:F9:A4:40:97	8/9/19 08:01:54 AM	Trigger	0.467 [IDLE]	92.3	61.2	100			NA
pit fan 4	00:81:F9:A4:40:97	8/9/19 07:57:21 AM	Trigger	0.056 [OFF]	88.5	65.9	100	6		NA
pit fan 4	00:81:F9:A4:40:97	8/9/19 07:52:54 AM	Trigger	0.038 [OFF]	86	67.5	100			NA
pit fan 4	00:81:F9:A4:40:97	8/9/19 07:49:59 AM	Trigger	0.697 [IDLE]	82.8	66.1	100	6.7		NA
pit fan 4	00:81:F9:A4:40:97	8/9/19 07:49:55 AM	Trigger	0.488 [IDLE]	82.8	66	100			NA
pit fan 4	00:81:F9:A4:40:97	8/9/19 07:44:15 AM	Trigger	0.578 [IDLE]	82	68.8	100	7		NA

- **Name:** Atom name selected by user
- **MAC:** Atom identification number
- **Date Time:** Date and Time of the last sample recorded
- **Reading Type:** Periodic, Trigger, or Read Now
- **Sensor Samples:** Vibration, Temperature, Humidity, Internal Battery, Impact, External Battery (attachment required)
- **Location:** Last location recorded by on app
- Click the Download Icon to download data as a .CSV file

Vibration Duration

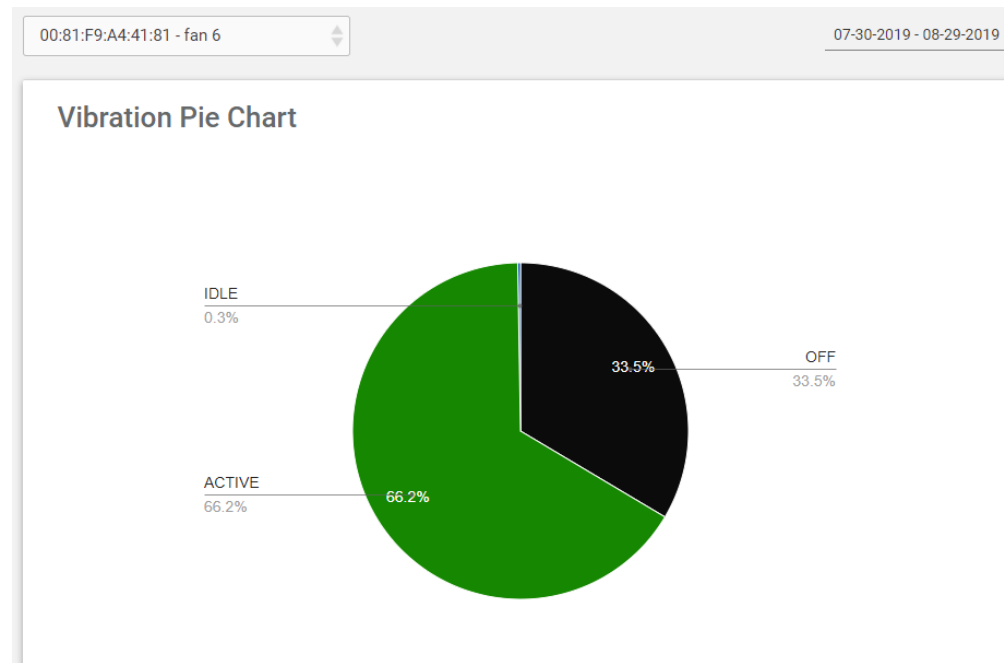
Vibration duration records the amount of time your equipment spent within certain threshold parameters using start time and duration, to help understand machine usage.



- Use the second dropdown to view all threshold levels or select a specific threshold to understand how long the machine was Off, Idle or Active
- **Total Duration:** located at the top right of the chart, shows the total time in all selected thresholds
- **Start time:** shows the time your equipment vibration level changed status
- **Status:** threshold level set in Atomate It App
- **Duration:** the amount of time spent at that threshold level

Vibration Pie Chart

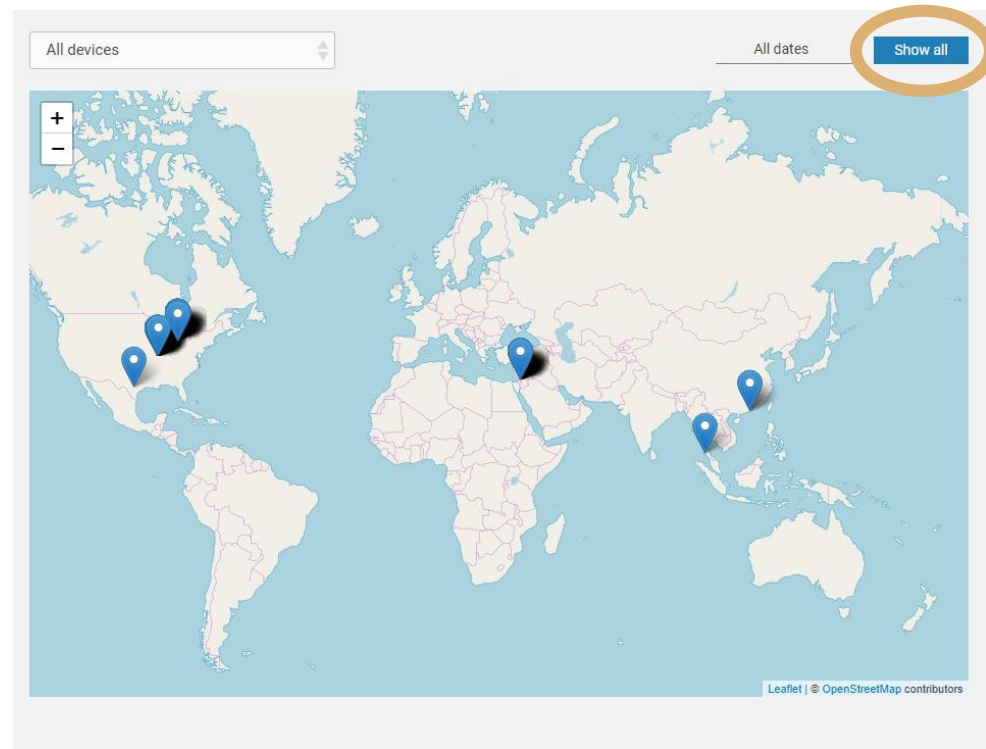
Vibration Pie Chart shows percentage of time your equipment spent within certain threshold over time to help understand equipment usage.



- Vibration Pie chart shows the % time spent in **Off**, **Idle** and **Active** thresholds
When vibration thresholds are adjusted on the app, graphs will self adjust online
- Select the Atom you wish to view in the dropdown at the top of the chart
- To change date range click the dates at the top right corner of the screen, this will adjust the graph and percentages to reflect machine behavior during that time period

Map

The map feature allows you to view Atoms on geographically dispersed equipment across the globe.

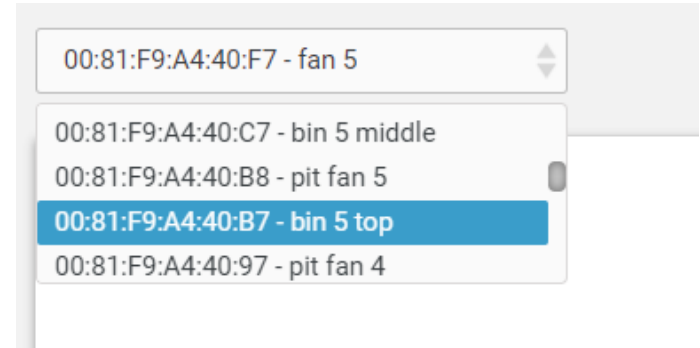


- Select All Devices in the drop down to view Atoms on all equipment on the map
- Select a specific Atom from the drop down to find it on the map
- Tap Show all to see all Atom locations over time
- Select a date range to see Atom location recorded over a specific time period

Selecting an Atom





















Users can select specific Atoms to view on graphs and tables using the dropdown menu.

- To select an Atom click on the MAC ID and name of the Atom
- To quickly find an Atom in the dropdown menu use the search function in your browser (Ctrl F) and type in the name of your Atom or the MAC ID



Setting Up Alerts

Dashboard

NAME	MAC	BATTERY (%)	LOCATION	LAST UPDATE	ACTIVE SENSORS	CONTACTS
feeder 59	00:81:F9:A4:40:FF	100	38.395, -89.380	08/09/2019 12:34:17 PM	   	
pit fan 5	00:81:F9:A4:40:B8	100	38.395, -89.380	08/09/2019 12:31:50 PM	   	
bin 2 down	00:81:F9:A4:40:E6	100	38.456, -89.343	08/09/2019 12:10:52 PM	   	
Vibration Monitor	00:81:F9:A4:3F:77	100	38.456, -89.343	08/09/2019 12:10:13 PM	   	

Users can set up alerts for Atoms to notify contacts when thresholds are reached.

- To set up alerts go to the Dashboard page
- Find the Atom to receive alerts from
- On the right side go to contacts
- Click the Person Icon
- Choose alert contacts for the Atom
- Alerts can be sent via SMS (Text Message) or Email

Contacts 00:81:F9:A4:3F:77 

SMS 



Save

Atoms must be in range of a gateway to send Alerts

Changing the Date Range

Users can change the date range on all graphs, tables and analytics to view information from a specific time period.

- Click the dates in the top right of the screen to open the calendar
- Select date range from defaults
- Select a custom range by clicking start date and end date in the calendar

07-17-2019 - 08-09-2019

07-17-2019 - 08-09-2019

Jul 2019							Aug 2019						
Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa
	1	2	3	4	5	6					1	2	3
7	8	9	10	11	12	13	4	5	6	7	8	9	10
14	15	16	17	18	19	20	11	12	13	14	15	16	17
21	22	23	24	25	26	27	18	19	20	21	22	23	24
28	29	30	31				25	26	27	28	29	30	31

Today

Last 7 Days

Last 30 Days

Custom Range

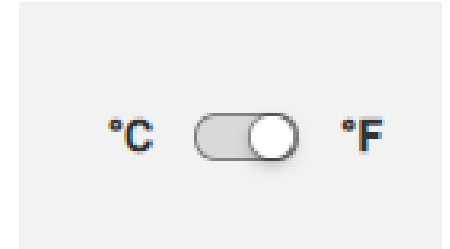
Apply

Cancel

Changing Temperature Units

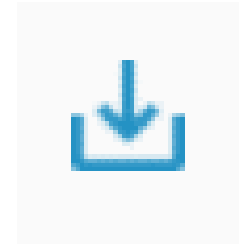
Users can change temperature units on graphs and tables that display temperature.

- To switch between °C and °F use the switch in the top right corner of the screen



Downloading Data

Users are able to download data tables in .CSV format to further analyze samples.



To download Data

- Click the down arrow icon at the top right of the screen
- .CSV file will automatically start downloading

Reading Type

Reading type shows why the sample was recorded by the Atom.

- **Periodic:** Reading taken based on sampling interval set
- **Trigger:** Reading taken when thresholds are met
 - Trigger readings appear highlighted in **red** in the Raw Data Table
- **Read Now:** Manual reading taken via local connection with the Atomate It app

READING TYPE
Periodic
Periodic
Trigger
Periodic
Read Now
Trigger
Trigger
Periodic
Periodic
Periodic

Sensor Samples

VIBRATION (SD)

TEMPERATURE (°F)

RH (%)

BATTERY (%)

IMPACT (G)

External Battery [%]

Sensor samples show data recorded by sensors on the Atom.

- **Vibration:** Samples recorded as standard deviation of the accelerometer
- **Temperature:** To change between °F and °C use the switch in the top right
- **RH%:** Percentage relative humidity
- **Battery%:** Atom Battery life remaining
- **Impact:** G force level when an impact occurs, only recorded when threshold level is exceeded
- **External Battery:** to monitor external battery level, requires external attachment

Users can turn sensors on an off with the Atomate It App