



**Gensoscientific®**

## WiFi Node

User Guide  
V5.00

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## OTA Series

The OTA series is the second generation of Wi-Fi Sensors from SensoScientific. This series of nodes boasts over-the-air upgrade (OTA) capabilities. This enable the devices to remotely upgrade firmware without the need to be manually serviced. The devices offer a large, 2.7" e-ink technology display which constantly shows the most current readings on the node. Critical functions include 2.4GHz & 5GHz 802.11 a/b/g/n Wi-Fi compatibility with an onboard visual and audible alarm in the event of data excursions. The battery level is shown along with several feedback notifications on the upper panel of the display. Additional alerts can be provided through a variety of methods such as SMS, text message, voice call, pager, cell phone, fax, and e-mail. All data is time-stamped and recorded – holding 4000 readings locally and transmitting data perpetually to cloud.

## Getting to Know Your Device

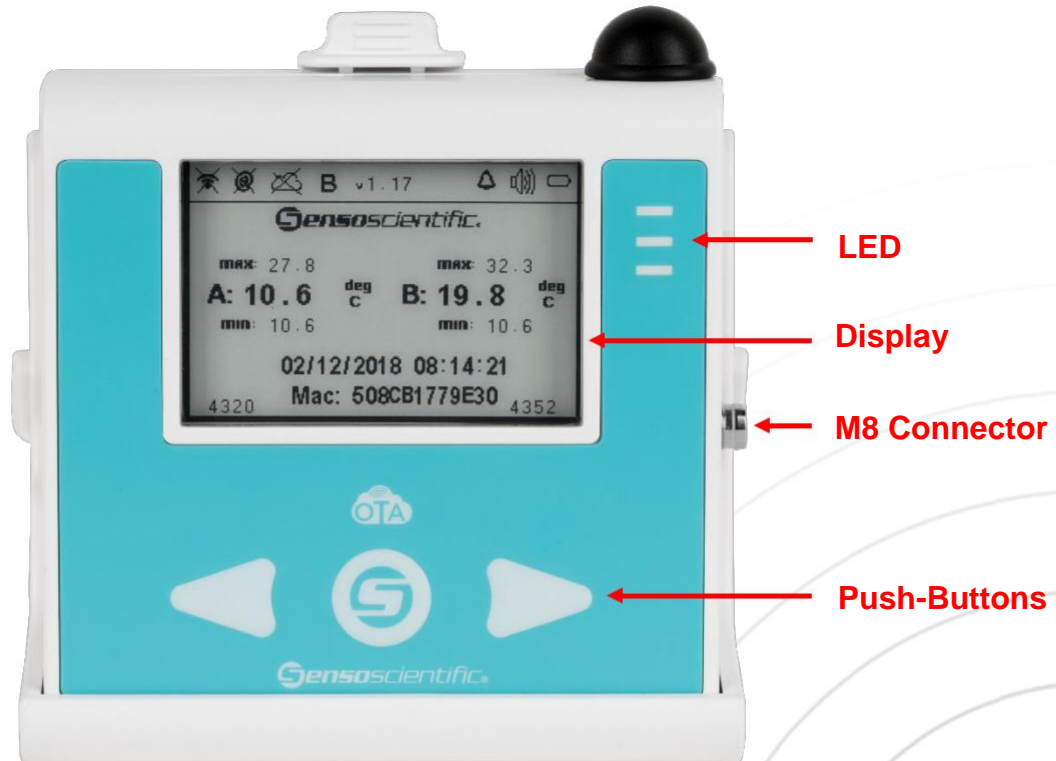


Figure 1 – OTA Node

# SensoScientific Cloud

The SensoScientific Cloud is the platform that all data is received and recorded. The cloud can be accessed via any internet enabled device using the following link:

[Cloud.SensoScientific.com](http://Cloud.SensoScientific.com)

Use the Login Information provided to you to login.

**Installation Slip - OTA**

**1. Congratulations!**  
You have received your SensoScientific Sensor(s). Please make sure all items you ordered have arrived. Contact your Sales Representative immediately if there is any discrepancy.  
You will need a computer or some Internet Enabled Device to begin.  
Go to: [Cloud.SensoScientific.com](http://Cloud.SensoScientific.com)

**2. Internet Enabled Device**  
Once you have arrived at the SensoScientific Cloud Portal, Log In by using the credentials listed at the bottom-left of this page. Then, select the HELP tab at the top Right of the screen.  
From here, Select the User Guide/Installation Docs on the Left tabs. Each of the documents in this tab are essential in setting up your device.

**3. Sensor**  
Learn more about the sensor(s) that you have received by using the OTA User Guide (PDF) or OTA Quick Start Guide (PDF) from within the Cloud. This includes all the instructions you will need.  
Contact Support if you have any questions during your setup.  
1 (800) 279-3101 ext. 4

**4. Wi-Fi**  
To use the OTA Sensor, it must be connected to the internet. If you opted for self-configuration follow the steps in the OTA User Guide or OTA Quick Start Guide. There are instructions on how to program the device to a Wi-Fi Source.  
If you opted for pre-configuration, the device is ready to go. Just put in the batteries and connect the probe and the device will show an orange light for a few seconds then a green light. This means that device is connected. You can go to the cloud and view the device which is now monitoring.

Rev1  
7/20/2018

Figure 2 – Installation Slip

**Current Status**

Green: No Alarms - All Values In Range   Yellow: No Alarms - Value Out Of Range, Not Yet Alarmed   Red: Unconfirmed Alarms Exist - Attention Required!   Pink: Suspended Alarm

Node Name	Node ID	Location	Alarm High	Alarm Low	Alarm Delay	Node Type	Value	Last Updated	Value Status	Connectivity Status	Alarm Status	Notification Status
Lab Light	25323	Laboratory	N/A	N/A	30 (Min)	Light Sensor	Light	6/4/2018 1:25:22 PM	In Range	Connected	Alarmed	Active
Lab Ambient	25327	Laboratory	35 (°C)	20 (°C)	30 (Min)	Temperature	25.8 (°C)	6/4/2018 1:25:22 PM	In Range	Connected	Alarmed	Active
Pharmacy Ambient	1245	Pharmacy	35 (°C)	15 (°C)	0 (Min)	Temperature	20.6 (°C)	6/4/2018 1:25:01 PM	Out of Range	Connected	No Alarms	Active
Pharmacy Humidity	1246	Pharmacy	70 (RH%)	20 (RH%)	15 (Min)	Humidity	54.1 (RH%)	6/4/2018 1:25:01 PM	In Range	Connected	No Alarms	Active
Research Freezer	1247	Laboratory	5 (°C)	-15 (°C)	0 (Min)	Temperature	-17 (°C)	6/4/2018 1:25:55 PM	In Range	Connected	No Alarms	Active
Blood Bank Refrigerator	1248	Laboratory	8 (°C)	2 (°C)	30 (Min)	Temperature	4.9 (°C)	6/4/2018 1:26:57 PM	In Range	Connected	No Alarms	Active
Pharmacy Main Refrigerator	1249	Pharmacy	45 (°F)	38 (°F)	0 (Min)	Temperature	38.7 (°F)	6/4/2018 1:26:17 PM	In Range	Connected	No Alarms	Active
OR Pharmacy Refrigerator	12543	Pharmacy	8 (°C)	1 (°C)	30 (Min)	Temperature	4.7 (°C)	6/4/2018 1:22:28 PM	In Range	Connected	No Alarms	Active
Blood Bank Refrigerator	12544	Laboratory	8 (°C)	2 (°C)	0 (Min)	Temperature	4.7 (°C)	6/4/2018 1:26:54 PM	In Range	Connected	No Alarms	Active
Specimen Refrigerator 3	12545	Laboratory	8 (°C)	2 (°C)	30 (Min)	Temperature	5.4 (°C)	6/4/2018 1:26:32 PM	In Range	Connected	No Alarms	Active
Walk In Fridge 2	12931	FoodService	50 (°F)	38 (°F)	30 (Min)	Temperature	45.5 (°F)	6/4/2018 1:25:56 PM	In Range	Connected	No Alarms	Active
Lab Humidity	28328	Laboratory	70 (RH%)	20 (RH%)	0 (Min)	Humidity	56.1 (RH%)	6/4/2018 1:25:22 PM	In Range	Connected	No Alarms	Active
Walk In Freezer	48422	FoodService	35 (°F)	15 (°F)	15 (Min)	Temperature	23.2 (°F)	6/4/2018 1:28:00 PM	In Range	Connected	No Alarms	Active
Cafe Refrigerator	48423	FoodService	50 (°F)	38 (°F)	30 (Min)	Temperature	40.7 (°F)	6/4/2018 1:27:50 PM	In Range	Connected	No Alarms	Active

Audit Node

Figure 3 – Cloud Monitoring

## Setting Up Your Device: App

The device set-up process takes only a few short minutes. For the device to work properly, it must be set up to a Wi-Fi Network. **If you opted for SensoScientific to pre-configure the device, please disregard this section.** The device can be configured using the *SensoScientific* app available on iOS or Android devices. If you do not have a smartphone to use, go to the browser method (See Page 10). The following are required to proceed:

- 1) OTA Wi-Fi Node(s)
- 2) 2.4GHz or 5GHz Wi-Fi Source
- 3) Internet accessible iOS or Android cell phone

Note: iOS 8 / Android 8.0 or newer is required.

### Step 1 – Download App

Go to your phone's app store. Search and download “*SensoScientific*”.

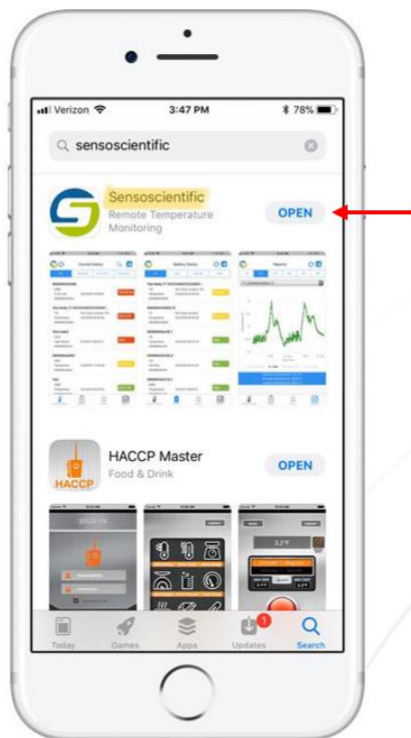
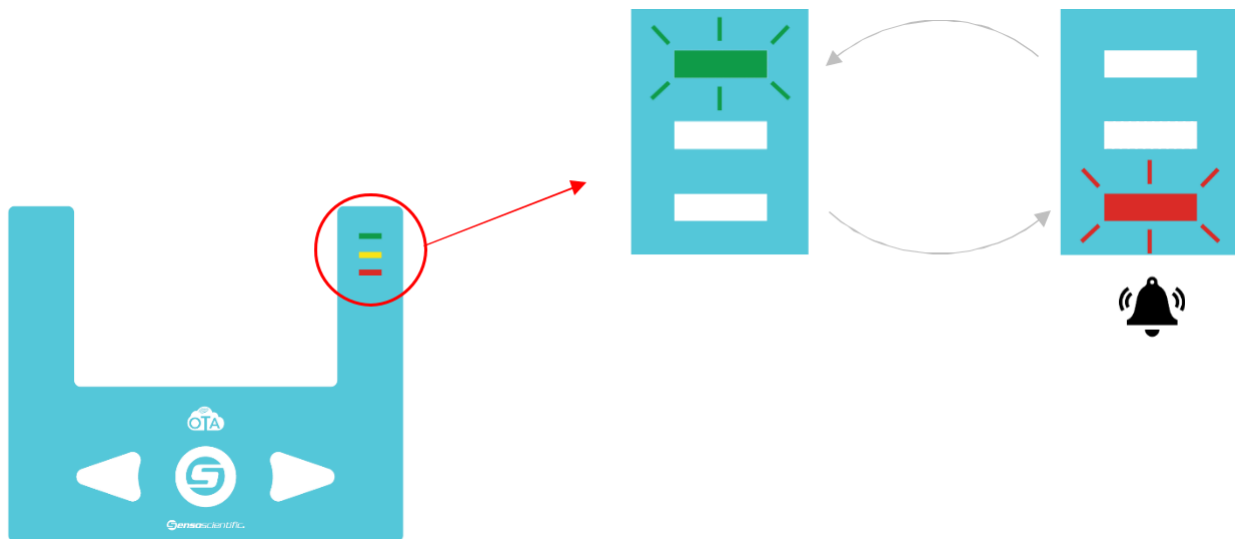


Figure 4 – Search App

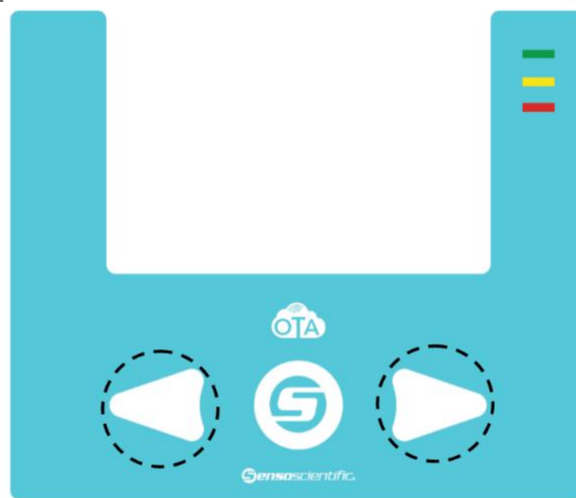
## **Step 2 – Set Device to Provisioning Mode**

The OTA device must be configured to the provisioning mode. This is done by turning the device on (put the batteries in). The device screen will flash, and the yellow LED will turn on solid. The device will attempt to connect to a Wi-Fi source for 15 seconds. After this time, the device will alert that no connection was established by alternating between the green and red LED with an audible beep.



*Figure 5 – Provisioning LED Flashing*

Now, press the left and right buttons simultaneously on the device to enter the provisioning mode.



*Figure 6 – Provisioning Activation*

### **Step 3 – Connect to Wi-Fi**

On your cell phone, connect to the Wi-Fi network *“mysimplelink-57D475”*. This will connect your phone to the OTA Node. See below for further instructions on how to connect your phone to a Wi-Fi network using an iOS or Android device:



Figure 7 – Connect Phone to OTA Sensor



## iOS

1. From your Home screen, go to Settings > Wi-Fi.
2. Turn on Wi-Fi.  
Your device will automatically search for available Wi-Fi networks
3. Tap the name of the Wi-Fi network that you want to join - “mysimplelink-57D475”.  
The digits after the hyphen will be the last 6 characters of the device’s MAC Address.

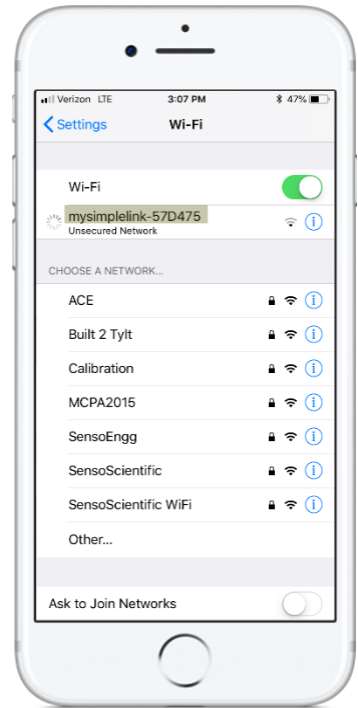


Figure 8 – iPhone Set-Up

## Android

1. Open the settings app.  
You can find this in the apps drawer.
2. Tap the Wi-Fi symbol at the top left.
3. Tap the name of the Wi-Fi network that you want to join - “mysimplelink-57D475”.  
The digits after the hyphen will be the last 6 characters of the device’s MAC Address.
4. Tap Connect to join the network.

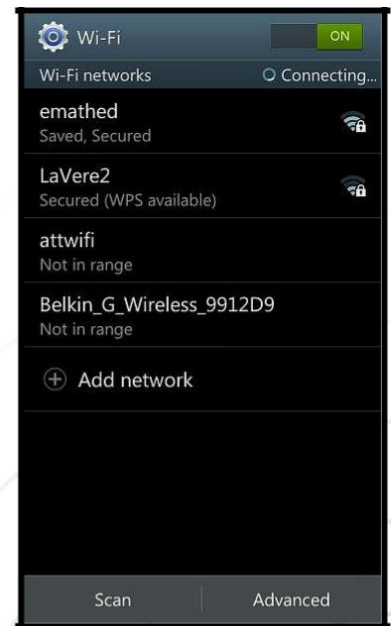


Figure 9 – Android Set-Up



## Step 4 – Configure Wi-Fi

Now that you are connected to the OTA node from your cellular phone, go to the SensoScientific app.



Figure 10 – SensoScientific App

From the app, go to the **Wi-Fi Setup** link at the bottom of the main screen. Configure to the desired network from this platform.



Figure 11 – Wi-Fi Set-Up

Select the security that the network uses and input the appropriate information for the OTA node to join the network.



*Figure 12 – Enterprise Security*

Note: The platform supports enterprise security

Once all the appropriate information has been added, select “Join” at the top right of the screen to connect the device to the desired network. If any issues are found while trying to connect or at any time throughout the set-up process, contact technical support.

1-800-279-3101

Support extension - option 4 at the prompt

Plug the probe into the device and place the probe wherever you are looking to monitor data. Go to [cloud.sensoscientific.com](https://cloud.sensoscientific.com) to access your data. Use the username and password provided to you via email or in the Installation Slip within your shipment (See Figure 2)

## Setting Up Your Device: Browser

The device set-up process takes only a few short minutes. For the device to work properly, it must be set-up to a Wi-Fi Network. **If you opted for SensoScientific to pre-configure the device, please disregard this section.** The device can be configured using the *SensoScientific* app available on iOS or Android devices. If you do not have a Wi-Fi enabled device contact technical support (See contact page). The following are required to proceed:

- 1) OTA Wi-Fi Node(s)
- 2) 2.4GHz Wi-Fi Source
- 3) Wi-Fi Enabled Device (Laptop, Smartphone, Tablet, etc...)

### **Step 1 – Set Device to Provisioning Mode**

The OTA device must be configured to the provisioning mode. This is done by turning the device on (put the batteries in). The device screen will flash, and the yellow LED will turn on solid. The device will attempt to connect to a Wi-Fi source for 15 seconds. After this time, the device will alert that no connection was established by alternating between the green and red LED with an audible beep.

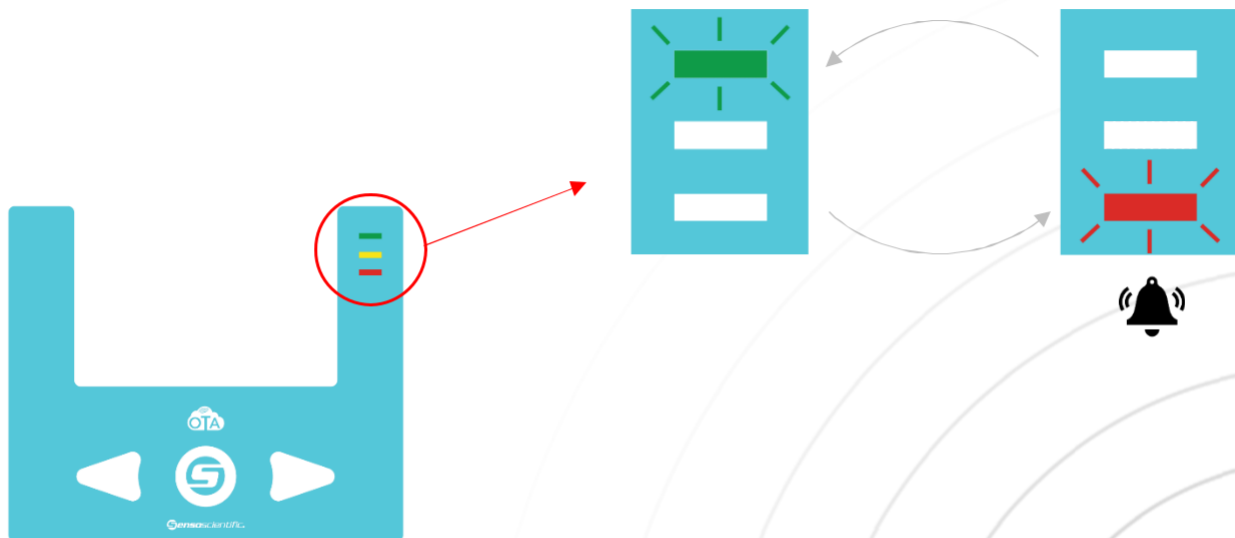


Figure 13 – Provisioning LED Flashing

Now, press the left and right buttons simultaneously on the device to enter the provisioning mode.

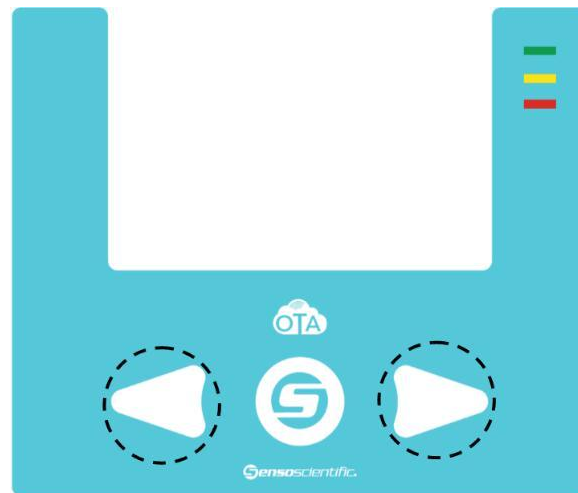


Figure 14 – Provisioning Activation

## **Step 2 – Connect to Wi-Fi**

On your Wi-Fi enabled device, connect to the Wi-Fi network “*mysimplelink-57D475*”. The last six digits of the network name are the last six digits of the OTA Node’s MAC Address. This will connect your phone to the OTA Node. See below for further instructions on how to connect your phone to a Wi-Fi network using an tablets, iOS, or Android device:



Figure 15 – Connect Phone to OTA Sensor

## iOS

1. From your Home screen, go to Settings > Wi-Fi.
2. Turn on Wi-Fi.  
Your device will automatically search for available Wi-Fi networks
3. Tap the name of the Wi-Fi network that you want to join - “mysimplelink-57D475”.  
The digits after the hyphen will be the last 6 characters of the device’s MAC Address.

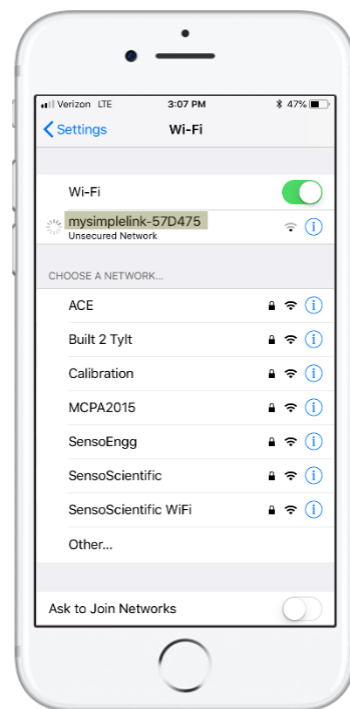


Figure 16 – iPhone Set-Up

## Windows 10

1. Open the Network & Internet (press Windows key + I to open the Settings app, or move your cursor to the notification area and click on the network icon).
2. The network icon will list available wireless networks. Select the network you want to connect to and then click Connect. You'll also see Network Settings near the bottom of available wireless networks. This will quickly open the Network & Internet. If you opened Network & Internet from the Settings app, the following figure will also appear:
4. Tap the name of the Wi-Fi network that you want to join - “mysimplelink-57D475”.

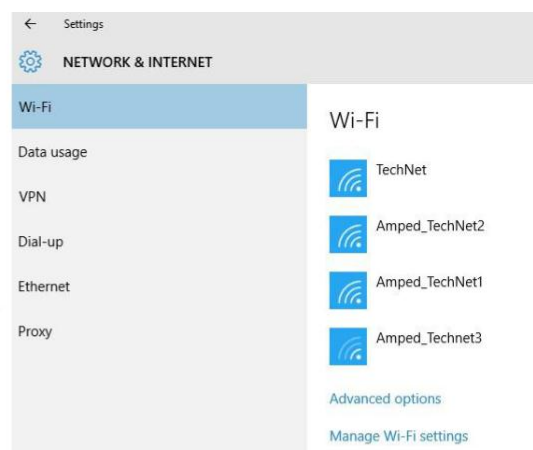
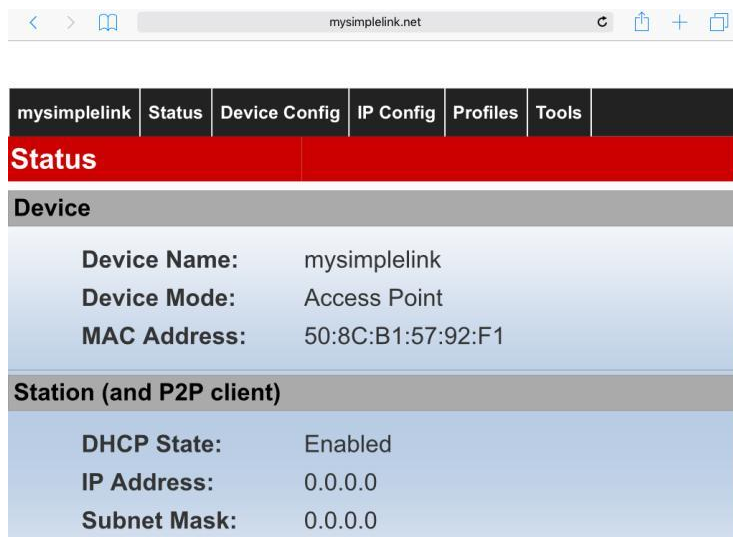


Figure 17 – Windows

### Step 3 – Configure the Node

On your Wi-Fi enabled device (Laptop, iPad, etc...), go to an internet browser (Internet Explorer, Google Chrome, Firefox, etc...) and type [mysimplelink.net](http://mysimplelink.net) into the browser bar.

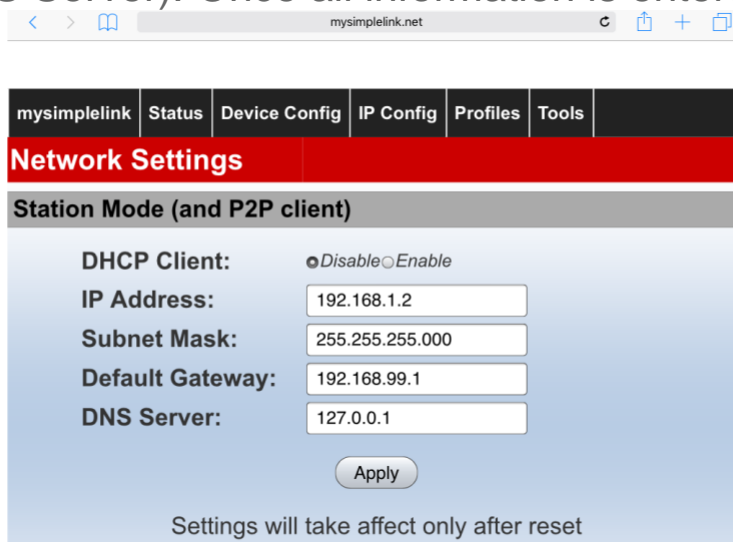


The screenshot shows a web browser at the URL [mysimplelink.net](http://mysimplelink.net). The navigation bar includes tabs for 'mysimplelink', 'Status', 'Device Config', 'IP Config', 'Profiles', and 'Tools'. The 'Status' tab is selected and highlighted in red. Below the navigation bar, the 'Status' section is displayed with a grey header. Underneath, the 'Device' section is shown with a light blue background, listing 'Device Name: mysimplelink', 'Device Mode: Access Point', and 'MAC Address: 50:8C:B1:57:92:F1'. The 'Station (and P2P client)' section follows, also with a light blue background, showing 'DHCP State: Enabled', 'IP Address: 0.0.0.0', and 'Subnet Mask: 0.0.0.0'.

mysimplelink	Status	Device Config	IP Config	Profiles	Tools
<b>Status</b>					
<b>Device</b>					
Device Name:		mysimplelink			
Device Mode:		Access Point			
MAC Address:		50:8C:B1:57:92:F1			
<b>Station (and P2P client)</b>					
DHCP State:		Enabled			
IP Address:		0.0.0.0			
Subnet Mask:		0.0.0.0			

Figure 18 – mysimplelink.net

If Static IP is required, go to the **IP Config** tab. Disable DHCP Client and enter all information in the fields (IP Address, Subnet Mask, Default Gateway, and DNS Server). Once all information is entered select Apply.



The screenshot shows the 'IP Config' tab selected in the navigation bar. The 'Network Settings' section is highlighted in red. Below it, the 'Station Mode (and P2P client)' section is shown with a light blue background. The 'DHCP Client' is set to 'Disable' (selected with a radio button). The 'IP Address' field contains '192.168.1.2', 'Subnet Mask' contains '255.255.255.000', 'Default Gateway' contains '192.168.99.1', and 'DNS Server' contains '127.0.0.1'. An 'Apply' button is located below these fields. A note at the bottom states 'Settings will take affect only after reset'.

mysimplelink	Status	Device Config	IP Config	Profiles	Tools
<b>Network Settings</b>					
<b>Station Mode (and P2P client)</b>					
DHCP Client:		<input checked="" type="radio"/> Disable <input type="radio"/> Enable			
IP Address:		<input type="text" value="192.168.1.2"/>			
Subnet Mask:		<input type="text" value="255.255.255.000"/>			
Default Gateway:		<input type="text" value="192.168.99.1"/>			
DNS Server:		<input type="text" value="127.0.0.1"/>			
<input type="button" value="Apply"/>					
Settings will take affect only after reset					

Figure 19 – Static IP

Go to **Profiles** to add the network information (SSID and Password). For Open, WEP, WPA1, and WPA2 authentication, enter the network information under **Add Profile**. Once all information has been put in, press Add for the profile to be saved.

The screenshot shows a web browser window with the URL 'mysimplelink.net'. The navigation bar includes 'mysimplelink', 'Status', 'Device Config', 'IP Config', and 'Profiles'. Below this is a 'Tools' section with a red header for 'WiFi Connectivity Profiles Settings'. The 'Add Profile' form contains the following fields: 'SSID' (text box with 'SensoScientific WiFi'), 'Security Type' (radio buttons for 'Open', 'WEP', 'WPA1', and 'WPA2', with 'WPA2' selected), 'Security Key' (text box with 'Password' and a note: 'Hexadecimal digits - any combination of 0-9, a-f and A-F'), and 'Profile Priority' (text box with '0' and a note: 'Enter a value 0-7 (0 = highest)'). An 'Add' button is at the bottom of the form. Below the button, a message states: 'The new Profile will take affect only after reset'.

Figure 20 – Network Information

For enterprise security, scroll down to the bottom of the page under **Add Enterprise Profile**. Input all information and select Add to save the profile.

The screenshot shows the 'Add Enterprise Profile' form in the 'mysimplelink.net' web interface. The form includes the following fields: 'SSID' (text box with 'SensoScientific WiFi'), 'Identity' (text box with 'UserName'), 'Anonymous Identity' (text box with 'anonymous@example.cc'), 'EAP Method' (dropdown menu with 'PEAPv1' selected), 'Phase 2 Authentication' (dropdown menu with 'MSCHAPv2' selected), 'Provisioning' (dropdown menu with '1' selected and a note: 'For 'FAST' method only, for other methods use 'None''), 'Password' (text box with 'Password' and a note: 'Hexadecimal digits - any combination of 0-9, a-f and A-F'), and 'Profile Priority' (text box with '0' and a note: 'Enter a value 0-7 (0 = highest)'). An 'Add' button is located at the bottom of the form.

Figure 21 – Enterprise Security



## Step 4 – Verify Profile

Once the profile has been added, go to the bottom of the Profile tab and verify that the profile has been added. It should be listed in any of the profiles.

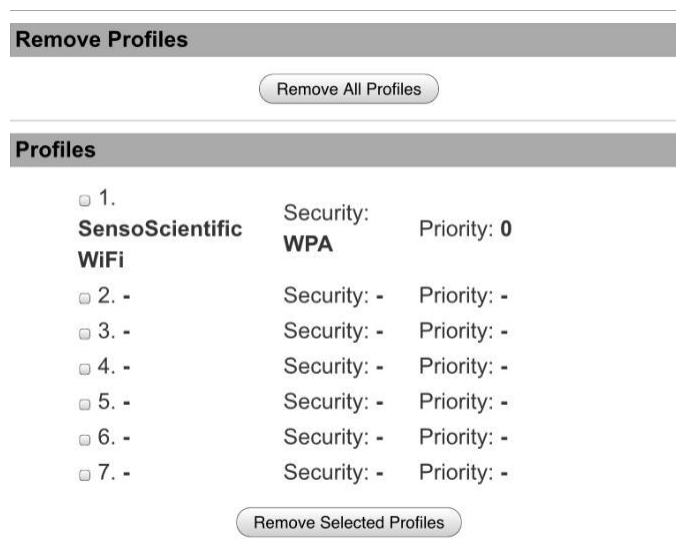


Figure 22 – Profiles

Finally, restart the device twice and the device configuration will be complete. To restart the device, take out the batteries from the back of the device, unplug the power supply, and wait 30 seconds. Put the batteries back in or plug the power supply into the device. Repeat this two-step process again to complete the reset procedure. Once this is done, the device will connect to the network and show a green light. Also, the symbols at the top left of the device screen (notification panel) will not have any crosses through it (See Table 1). If any issues are found while trying to connect or at any time throughout the set-up process, contact technical support.

**1-800-279-3101**

**Support extension - option 4 at the prompt**

Plug the probe into the device and place the probe wherever you are looking to monitor data. Go to [cloud.sensoscientific.com](https://cloud.sensoscientific.com) to access your data. Use the username and password provided to you via email or in the Installation Slip within your shipment (See Figure 2)

## Display Notifications

The display shows many different notifications which are critical for the operation of the device. Below are descriptions of each of the notifications on the notification panel. See the legend below:

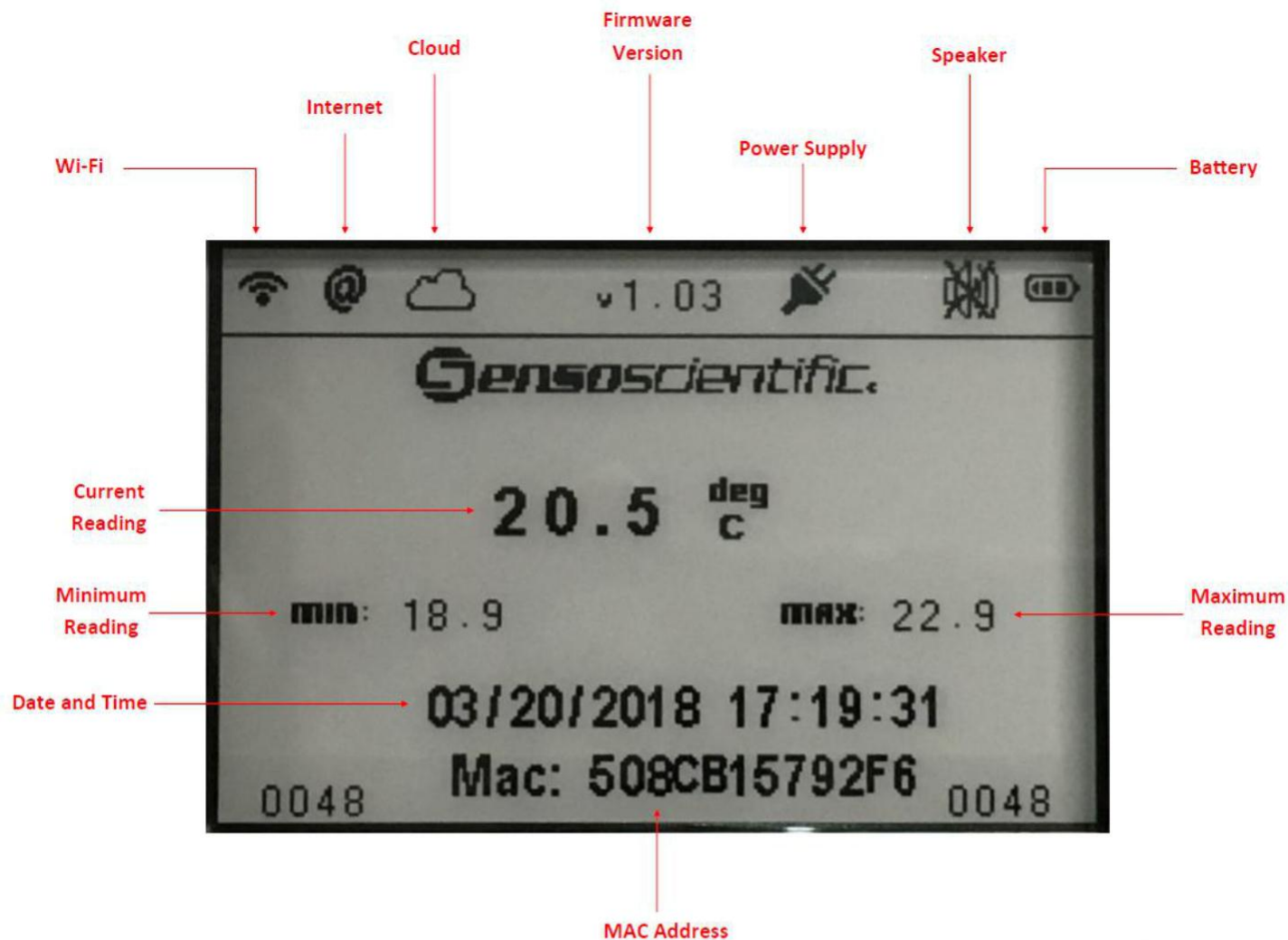


Figure 23 – Display Legend

Note that the B at the top of the display will appear when the Wi-Fi, Internet, or Cloud connection cannot be established.

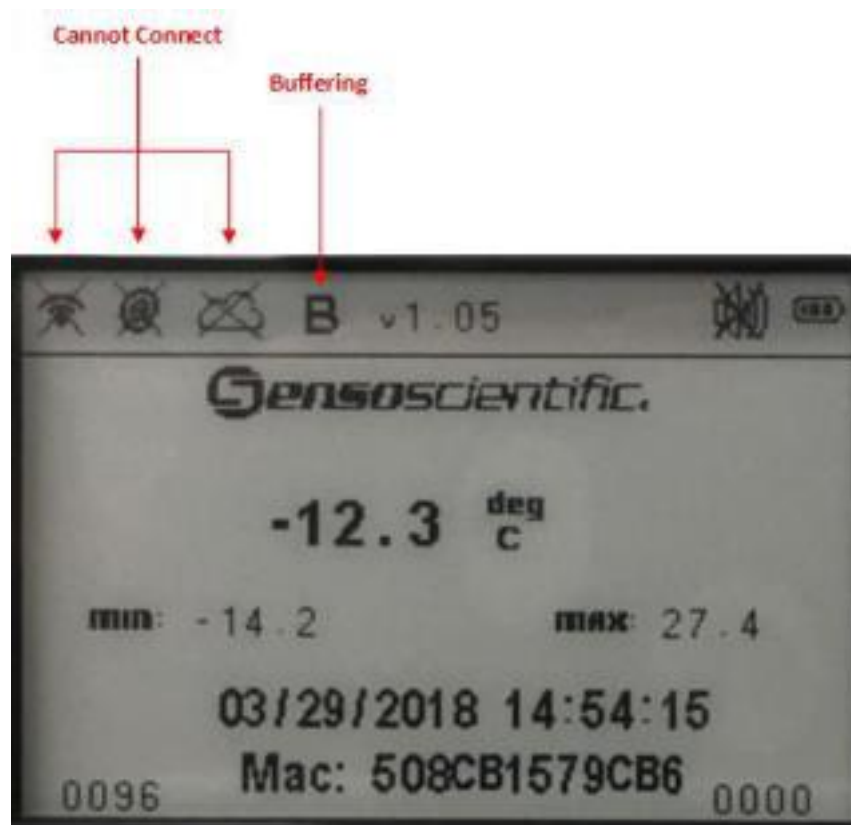









Figure 24 – Buffering

The top of the display is called the notification panel. This is where the all the information about the node is read. Each symbol is explained in the table below:

Symbol	Name	Description:
	Wi-Fi	The Wi-Fi Symbol notifies the user when the device is connected to a Wi-Fi Access point. This symbol will be crossed out when connectivity cannot be established.
	Internet	The internet symbol notifies the user when the device is connected to the internet. This symbol will be crossed out when connectivity cannot be established.
	Cloud	The cloud symbol shows whether the device is connected to the cloud and is storing data.
	Buffering	When a connection cannot be established, the temperature readings will be stored on the device. 4000 readings can be saved on the device.
v1.03	Firmware Version	The firmware version line identifies which version of firmware that the device is using.

	Power Supply	The Power Supply symbol shows when the device is connected to power via Micro USB. This symbol will not show when the power supply is not connected.
	Speaker	The Speaker symbol shows whether the audible alarm is on or off. If the audible alarm is off (muted) then the audible alarm will be crossed out and will not sound. The alarm will still alert on the cloud.
	Battery	The battery level is displayed at High, Medium, Low, and Empty.
min: max:	Maximum /Minimum Reading	The minimum and maximum readings show the highest and lowest recorded readings on the device. This can be reset at any time.
Mac:	MAC Address:	A Mac Address is used to uniquely identify the device.

*Table 1 – Display Notifications*

## LED Status

The three LEDs at the front of the device are used to provide user feedback about the device. The LED colors are green, yellow, and red – much like a traffic light.



*Figure 25 – LED*

The following table explains each of the LED States of the device.







LED	Status	Description:
	Wake Up	The device will wake up periodically to take a reading and reset the screen. During this wake-up function, the LED will show a solid yellow light.
	Sleep (Power Supply)	When the device is connected to a power supply via micro-USB, the device will show a blinking green light when in sleep mode.
	Sleep (Battery)	When the device is powered by battery, the device will <u>not</u> show any light when in the sleep mode.
	MAC Address Not Registered	When the device is connected to the Wi-Fi and can access the internet, it will show a blinking yellow and red light when the MAC Address is not registered.
	Data Alarm (Power Supply)	When the device reads data, which is outside the alarm limits provided in the cloud, an alarm will sound on the device. <b>The device will constantly sound</b> until either speaker is turned off or the device reads data in the alarm limits.
	Data Alarm (Battery)	When the device reads data, which is outside the alarm limits provided in the cloud, an alarm will sound on the device. <b>The device will sound every time the device wakes up</b> until either speaker is turned off or the device reads data in the alarm limits.

Table 2 – LED Status

## Push-Button Functions

The OTA node offers a push-button interface. Most of the device functionality is accessed from this interface. To prevent unintended functions from being activated, Push-Button sequences are used.

### Wake Up:

To get the most current reading and time stamp, press the center button to wake up the device and reset the screen. The yellow light will turn on solid, and the screen will reset.

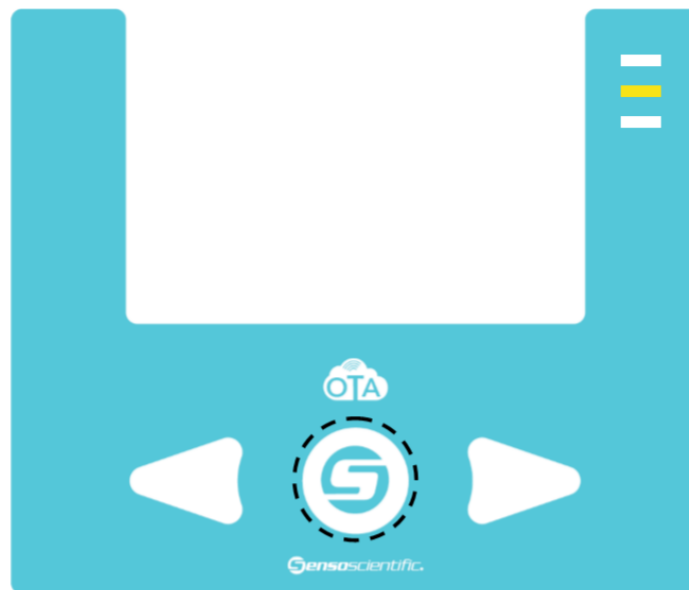
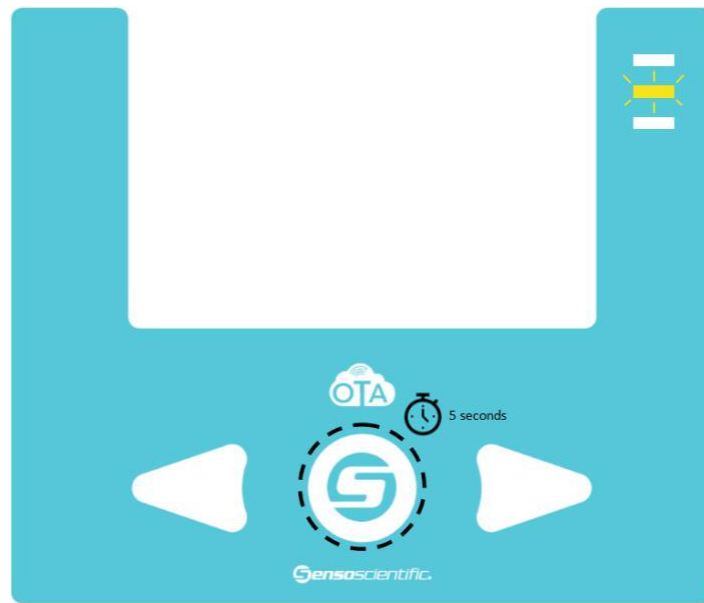


Figure 26 – Wake Up Device

## **Silence Speaker:**

To silence the audible alarm speaker, hold the center button for five seconds. The yellow light will flash until you release. Once the button is released, the yellow light will turn solid and the screen will reset. This will silence the audible alarm until the next time the device wakes up and take a reading. In order to permanently disable the audible alarm, it must be disabled from the cloud.



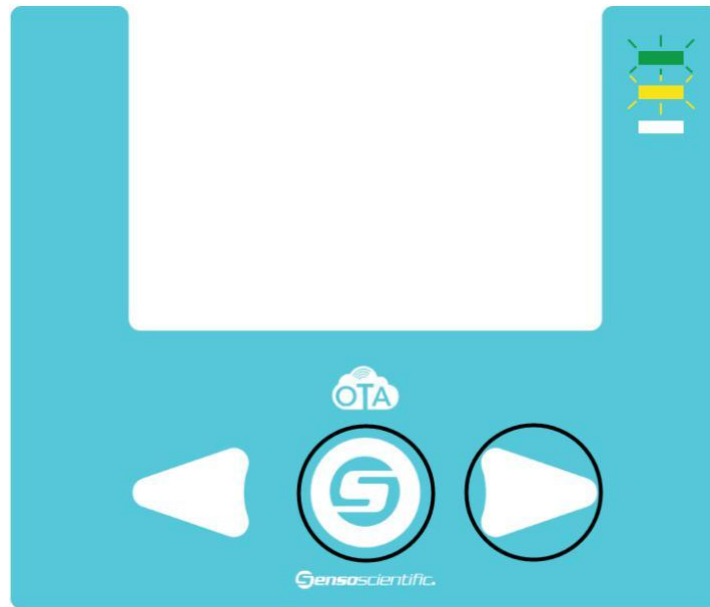
*Figure 27 – Turn Off Speaker*



### **Min/Max Reset:**

The minimum and maximum readings on the display are constantly updated from when the device is turned on. But, the minimum and maximum readings can be reset at any time. The following push-button sequence will accomplish this.

1. Press and hold the center and right buttons simultaneously. The green and yellow light will flash.



*Figure 28 – Min/Max Reset Step 1*

2. Release the center button but continue holding the right button. The yellow light will remain solid and the green light will flash.

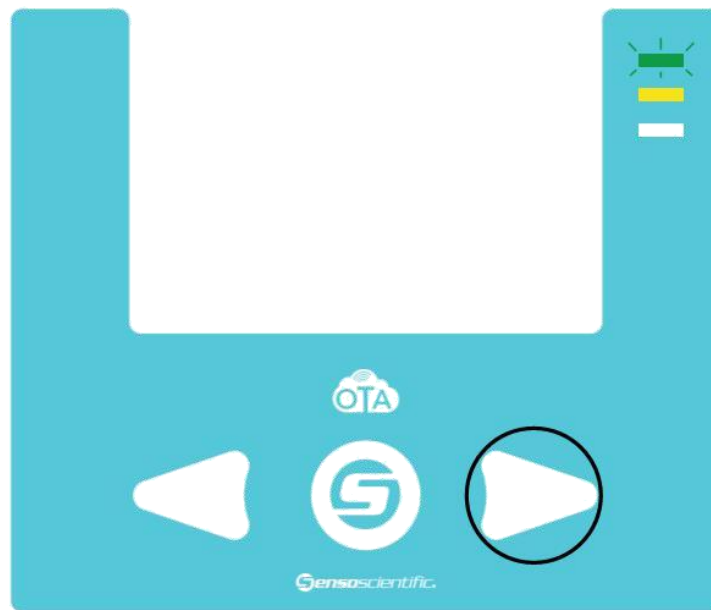


Figure 29 – Min/Max Reset Step 2

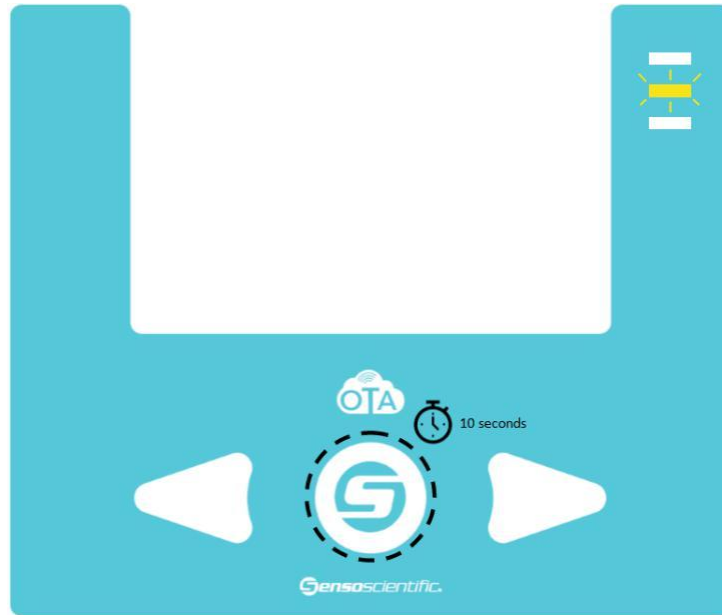
3. Once the green light becomes solid, release the right button.



Figure 30 – Min/Max Reset Step 3

### **Turn Off Device:**

To turn off your device. Press and hold the center button for 10 seconds. The screen will flash and turn off. To turn the device back on, press the center button once to reset/wake up the device.

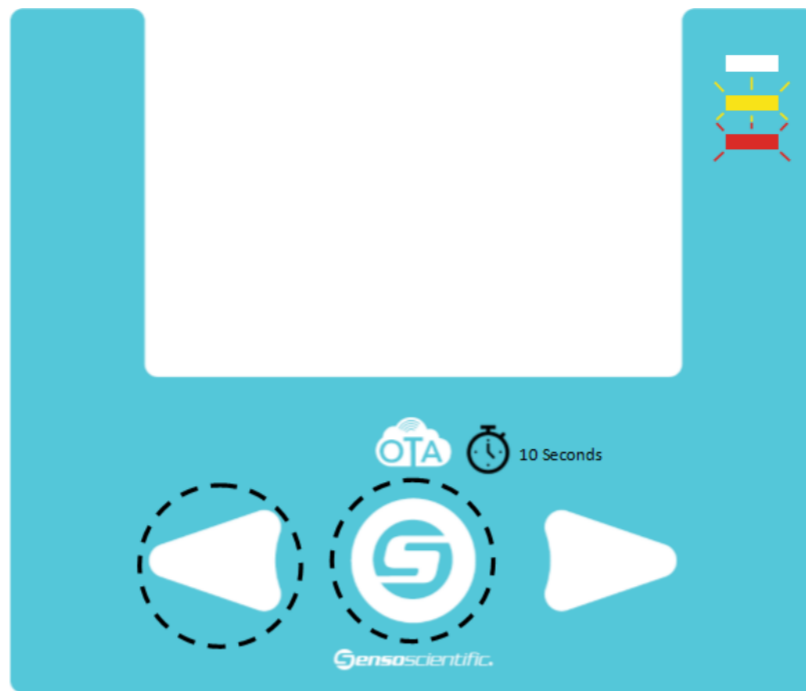


*Figure 31 – Turn Off Device*

### **Delete Wi-Fi SSID and Password:**

To clear the memory on the device for the Wi-Fi information that has been configured, follow the steps below:

1. Hold the left and center button for 10 seconds until the device stops alarming and blinking red.



*Figure 32 – Delete Wi-Fi Information*

Once the Wi-Fi information has been deleted, follow the Wi-Fi setup steps under Setting Up Your Device.

## Contact Sales / Technical Support

Please contact our sales team with any pre-sales questions on our temperature monitoring solutions.

Our technical support team is available during normal business hours Monday through Friday, between the hours of 8:00 AM and 5:00 PM Pacific Standard Time. We also provide our clients 24/7 support for emergency support requirements.

### E-Mail:

[salesinfo@sensoscientific.com](mailto:salesinfo@sensoscientific.com)

[support@sensoscientific.com](mailto:support@sensoscientific.com)

Click for [SensoScientific's 24/7 Online Help Desk](#)

**Warning:** Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**NOTE:** 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.

**FCC Statement:** 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.

The equipment complies with FCC Radiation exposure limit set forth for uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.