

# SwitchDoc Labs



OurWeather  
Installing the Blynk App

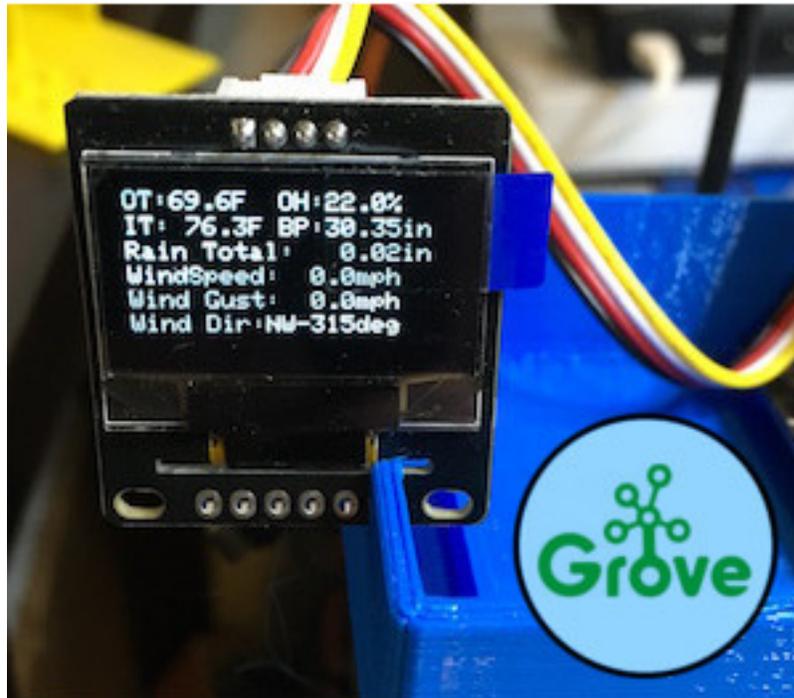
December 2018  
Version 1.2



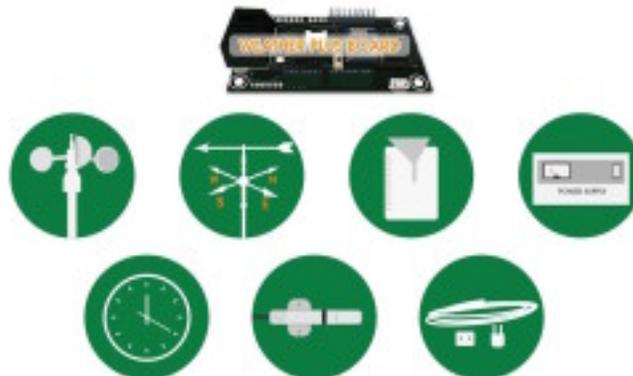
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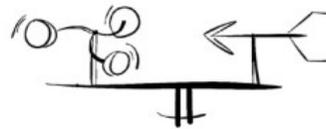
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## What is OurWeather?

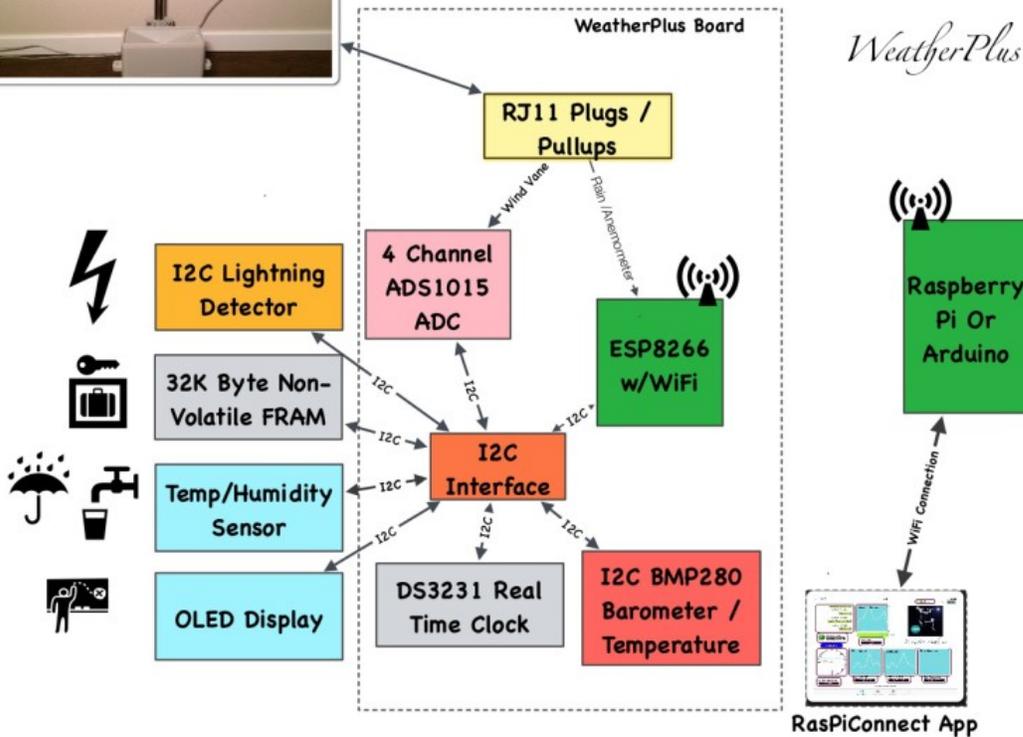


OurWeather is an ESP8266 based connected weather station containing 7 different sensors that will teach about electronics, software and the weather. It contains all the sensors and wires to make a fully functional, WiFi weather station. No software programming is required, it works right out of the box. However, if you want to change the way OurWeather works, add your own software or do something entirely different, we have the Open Source software available. And what is one of the coolest features of OurWeather? **Building the kit requires NO SOLDERING. It uses Grove Connectors.** It is all plug and play based building, with a full step-by-step photograph based instruction manual. It is a safe and educational way to learn about weather, electronics and science topics. You can watch our successful kickstarter video here: <https://youtu.be/pw6hSNSQnsM>





*WeatherPlus*



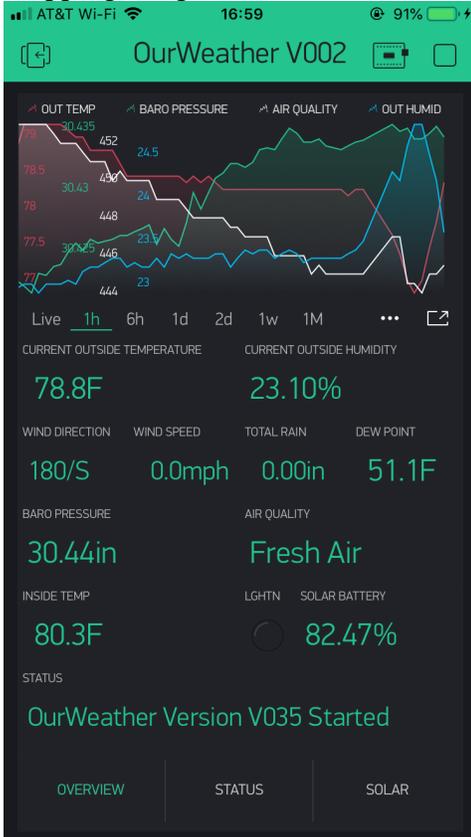
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# Installing the Blynk OurWeather App

## What is Blynk

Blynk is a digital dashboard for your iOS or Android device that allows you to easily build graphical interfaces by dragging and dropping widgets. Blynk runs on iOS and Android apps to control Arduino, Raspberry Pi and the likes over the Internet.

It's a digital dashboard where you can build a graphic interface for your project by simply dragging and dropping widgets.



Step by Step Install (for iPhones – Android is very similar)

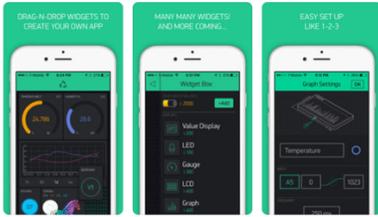
Step 1) Install the Blynk app on your mobile phone



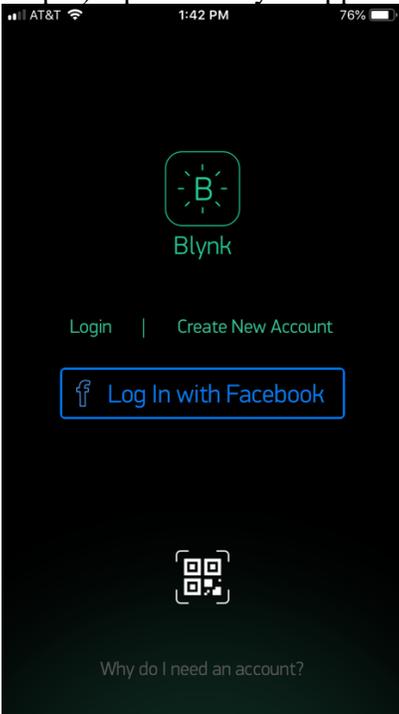
Blynk - IoT for Arduino, ES...  
ESP8266, Raspberry Pi, Node...

★★★★☆ 45

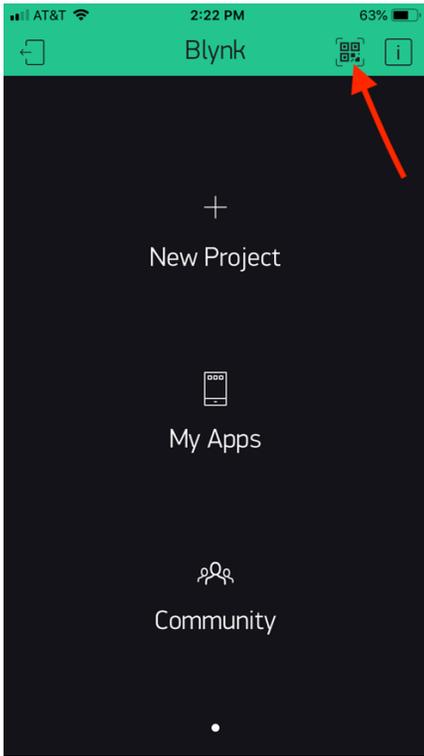
GET In-App Purchases



Step 2) Open the Blynk app and create an account



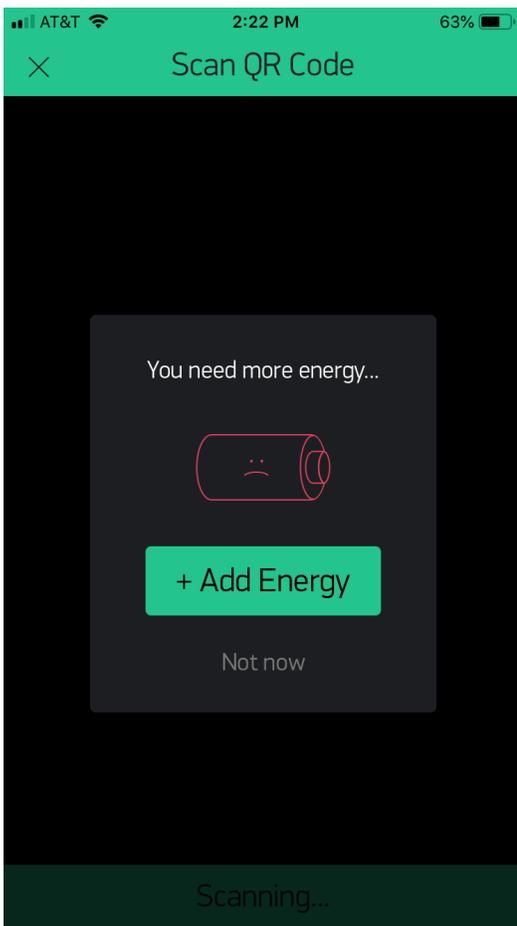
Step 3) Now click the button to scan a QR (see arrow)



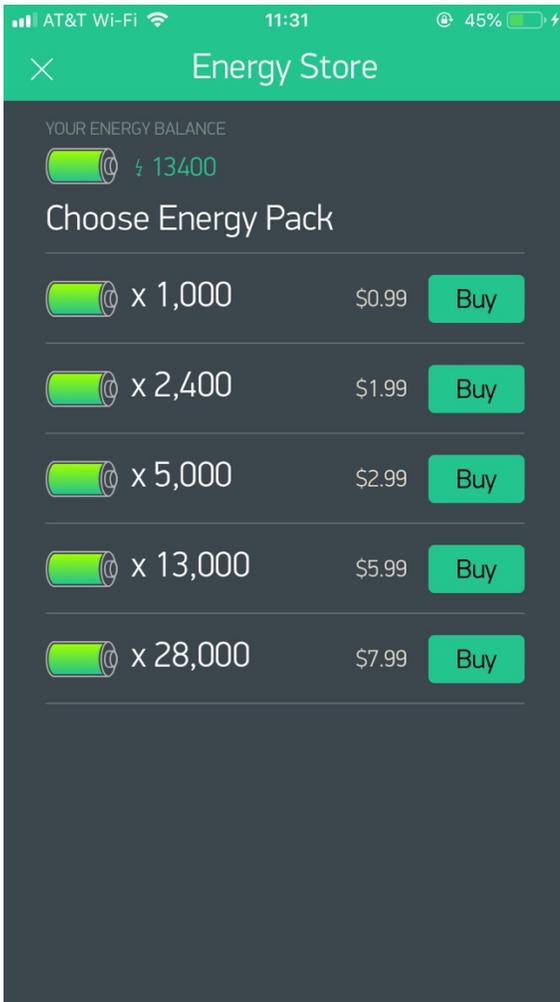
4) Scan the QR Below (this is OurWeather V002), you will then see the screen below the QR code



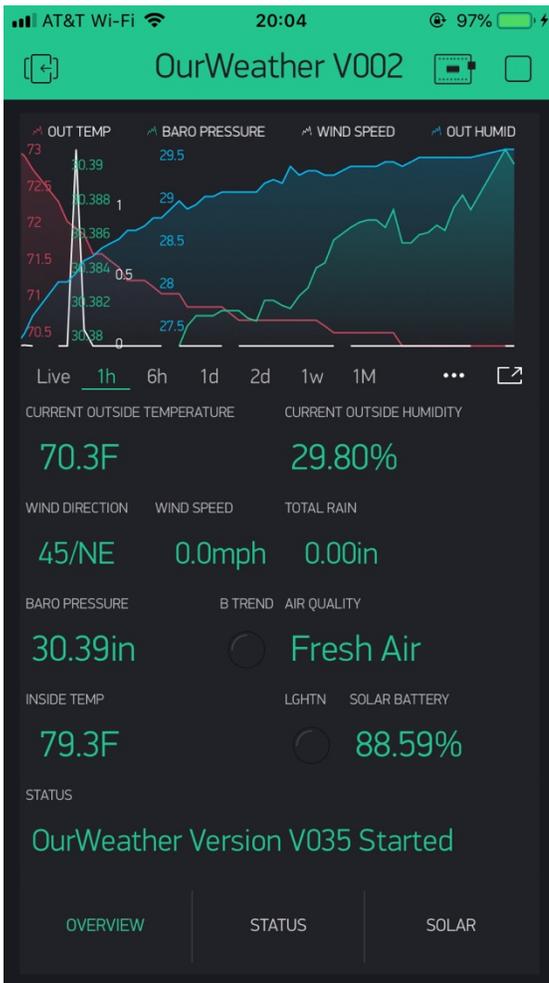
OurWeather V002



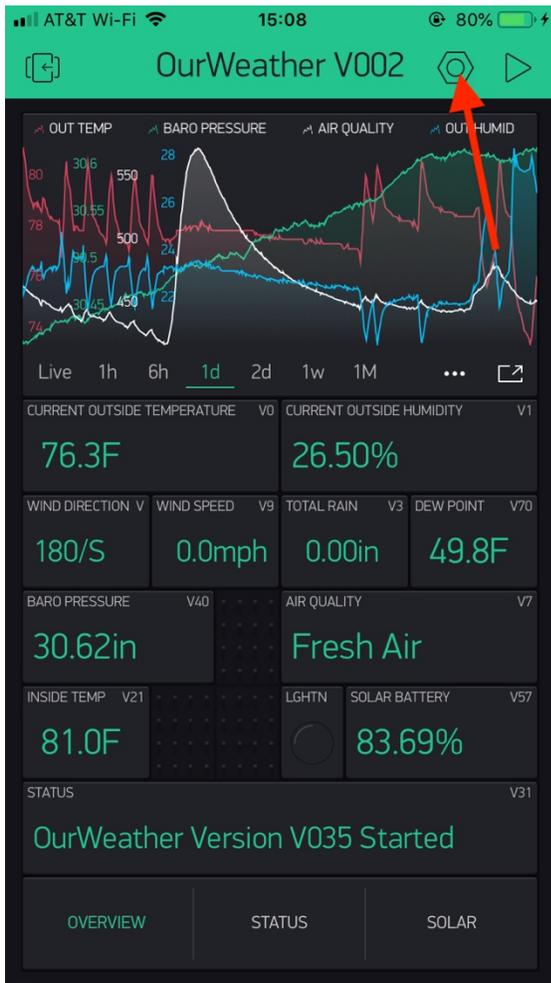
Step 5) Add Energy. OurWeather V002 requires a total of 7700 Blynk energy. You start your account with 2000, so you need to purchase 5700 Blynk Energy. As of this writing, it will cost \$5.99. It varies.



Step 6) Scan the QR code above again. You will now see the OurWeather on your screen. You can always check the version by at the title (as of V002, the version is included after “OurWeather” in the header below).



Step 7) Click in middle of the project to select the project. Then click the indicated button to go to project settings. Note: You can always see the App Version number of the project setting (V003). Now copy and paste or email yourself the authentication token (AUTH TOKEN) as we will be putting this in the OurWeather Admin Page in the next section. The one below WILL NOT WORK. You need your own.



You have completed the Blynk OurWeather App installation.

# Installing the Blynk Authentication Codes into OurWeather

The final step to connecting the OurWeather Software and Hardware to the OurWeather App is to copy your Authentication Token (AUTH TOKEN above) to the OurWeatherAdmin page. NOTE: OurWeather needs to be running at least V035 of the OurWeather Software. For instructions on how to update, go to the OurWeather Page ( <https://shop.switchdoc.com/products/ourweather-complete-weather-kit> ) and download the Assembly and Operations Manual.

Step 1) Using a browser, go to <http://www.switchdoc.com/OurWeatherAdmin.html>

**OUR WEATHER**

OurWeather Admin Functions V3.7

192.168.1.246 Set OurWeather IP Address OurWeather (example: 192.168.1.115)

Old Password New Password Set Admin Password

Admin Password WeatherUnderground Stati Set WeatherUnderground Station ID

Admin Password WeatherUnderground Stati Set WeatherUnderground Station Key

Admin Password Set OurWeather to Defaults

Admin Password Reset WiFi Access Point

Admin Password Mmm dd yyyy (example: Jan 07 2016) hh:mm:ss (example: 13:14:33) Set Date Time

Check For Latest OurWeather Version

Admin Password Update OurWeather Software

OurWeather Alexa Admin Functions V3.7

Admin Password pub-c-xxxxxx sub-c-xxxxxx Enable Alexa

Admin Password Disable Alexa

OurWeather Blynk Admin Functions V3.7

admin 7da5509ff6c14e72889ff0e Set Blynk Authorization Code

OurWeather ThunderBoard Lightning Detector Admin Functions V3.7

Fetch Current ThunderBoard Parameters

Admin Password Admin Password

2 Noise Floor 0-7 (default 2)

7 Tuning Capacitor 0-15 (default 7)

3 Watchdog Threshold 0-15 (default 3)

3 Spike Rejection 0-15 (default 3)

Outdoor or Indoor (default indoor)

No Disturber Detection or Disturber Detection (default no disturber detection)

Set ThunderBoard Parameters

Step 2) Make sure you have the OurWeather IP Number in the top of the page. Check the OurWeather Assembly and Operations manual for details of how to do this. To Download, go to the OurWeather Page ( <https://shop.switchdoc.com/products/ourweather-complete-weather-kit> ) and download the Assembly and Operations Manual.

Step 3) Put in your Blynk Authentication Code into the field on the OurWeatherAdmin page as shown above. Your code will look something like “7de5509ff6c14e72889ff0ad2ada24e8”:. This code WILL NOT WORK. You need your own. Click the button Set Blynk Authorization code. Make sure you have your Admin password.

## Using the Blynk OurWeather App

We will now go through a screen by screen discussion of the OurWeather App. This discussion is for SDL OurWeather V002. Once you have started the app in Blynk (by hitting the start button in the top right most corner of the app), you will start to see data after about 30 seconds.

### Main Screen

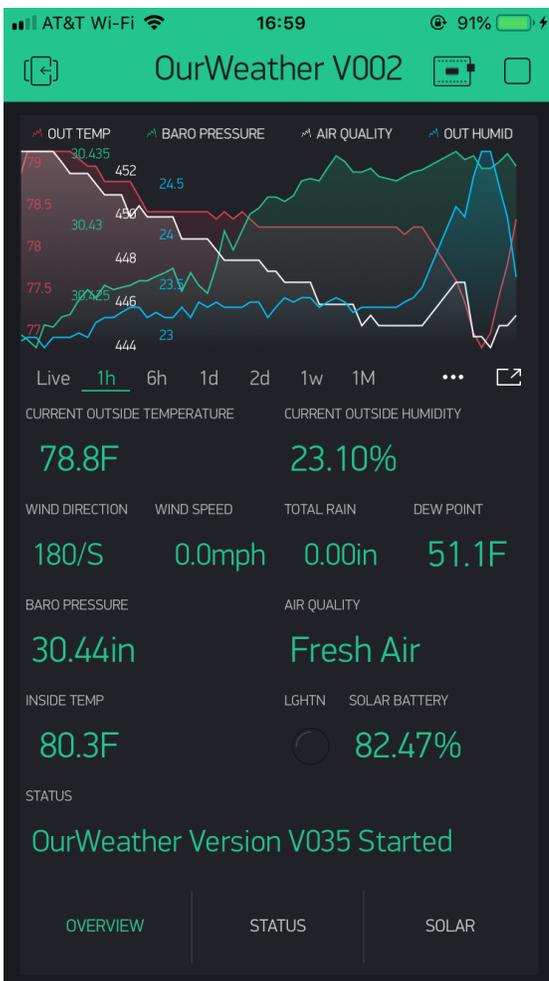
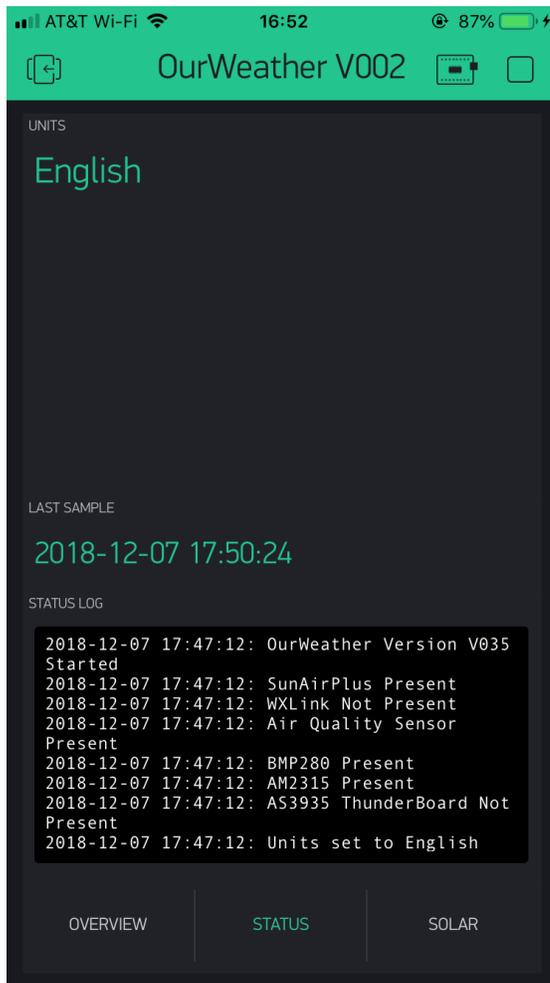


Chart – Displays Outside Temperature, Outside Humidity, Air Quality and Barometric Pressure. As you get more data you will be able to see more and more data on the screen. The button on the right bottom of the chart switches to landscape mode to see even more data.

If you don't have the Air Quality extender, it will read zero. If you don't have the ThunderBoard Lightning Detector, you won't see any events from the ThunderBoard.

## Status Screen



This screen shows the Status for the OurWeather system. These are:

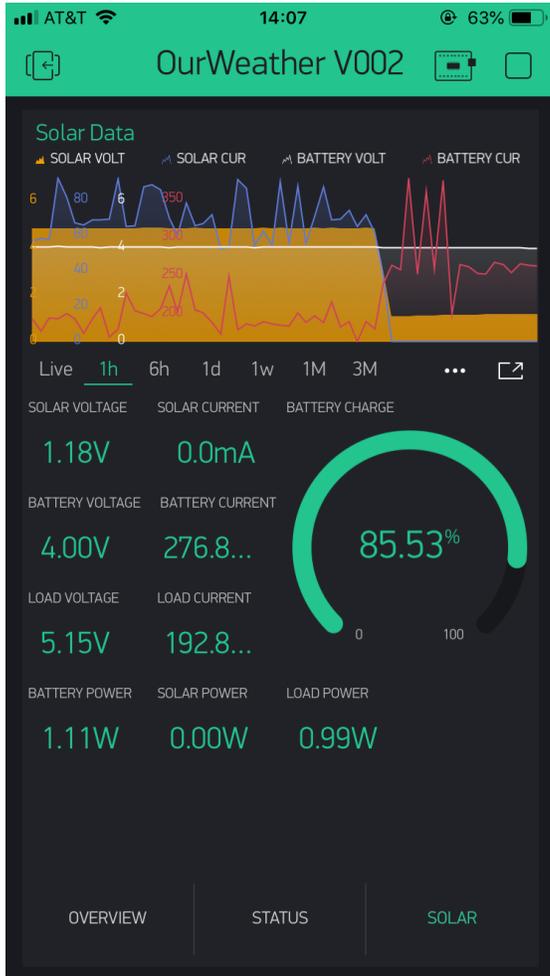
**UNITS** – Shows what Units (Metric or English)

**LAST SAMPLE** – Shows the time of the last weather data sample (in whatever timezone you have set your Raspberry Pi )

The terminal window at the bottom shows a running report of what the OurWeather system is currently doing. This is where you will see any lightning or noise events for the ThunderBoard Lightning Detector system.

Upon startup, OurWeather checks for what devices it finds and lists them on the Status Log.

## Solar Screen



This screen shows you the current status of the optional solar power system connected to OurWeather. Voltage displays are in Volts, while all the current screens are in milliamps (mA).

The Battery Gauge is an estimate of the total available charge (not the total charge of the LiPo battery), but the charge available to the OurWeather system.

This screen really lets you see the solar power system in action.

## Support

As with all SwitchDoc Labs products, technical support is given through the forums on [forum.switchdoc.com](http://forum.switchdoc.com). If you have issues that can be solved by our fabulous customer service department, please go to [www.switchdoc.com](http://www.switchdoc.com) and send your issues through our Contact page on the top menu.

## Disclaimer

SwitchDoc Labs, LLC takes no responsibility for any physical injuries and possession loss caused by those reasons which are not related to product quality, such as operating without following the operating manual and cautions, natural disasters or force majeure.

SwitchDoc Labs, LLC has compiled and published this manual which covers the latest product description and specification. The contents of this manual are subject to change without notice.