

# Getting Started with your Bobino

*BOBino V1 2014-Sep-01*

## 1) Assemble the Bobino:

A. The Sensor Shield attaches on top of the Arduino Uno



(Documentation/Bobino\_GettingStarted\_A.jpg)



(Documentation/Bobino\_GettingStarted\_A2.jpg)

B. The SD Card is placed in the SD Card Slot of the sensor shield



(Documentation/Bobino\_GettingStarted\_B.jpg)

C. The Short USB Power cable is plugged into the battery, then plugged into the Arduino Uno



(Documentation/Bobino\_GettingStarted\_C.jpg)

D. The unit takes approximately 10 seconds to boot up, initialize the SD card and begin taking readings!

## 2) Let the Bobino Run for 3 minutes

The default sample rate is 1 reading per minute.

## 3) Unplug the Power and Read the SD card with a computer.

Remove the SD Card, and plug into any laptop or computer with an SD Card Reader.

On the disk, you will see a file called 'DATA.CSV', example contents:

```
Time, Temperature (F), Humidity, Pressure (in Hg), Light (Raw value 0-1023), Light (
qualitative descriptor)
2000/1/1 0:0:0, 74.19, 47.00, 30.05, 316, bright
2014/9/5 16:27:0, 74.75, 47.00, 30.05, 323, bright
2014/9/5 16:27:59, 74.64, 47.00, 30.05, 321, bright
2014/9/5 16:28:59, 74.75, 47.00, 30.05, 319, bright
2014/9/5 16:29:59, 74.97, 47.00, 30.06, 338, bright
2014/9/5 16:30:59, 75.09, 47.00, 30.05, 326, bright
```

## 4) Reconfigure to your settings!

Adjust the settings on the Bobino is easy, simply edit the files in the CONFIG/ directory on the SD Card.

Edit The following files to set Configuration:

- CONFIG/TEMP.TXT -- Set Temperature Units to F or C
- CONFIG/TIME.TXT -- Set Time Sleep Interval in minutes
- CONFIG/ALT.TXT -- Set Altitude Units and Activate
- CONFIG/RTCSET.TXT -- Set To the current calendar information to adjust system time.
- CONFIG/\_RTCSET.TXT -- Example RTC File to make clock setting easy.

## 5) Adjust the Time Clock

The Bobino clock will need to be updated to your local time on first installation or whenever the clock battery becomes disconnected.

To set the clock, create a file on the SD card with the name: CONFIG/RTCSET.TXT with the contents:

```
2014 09 01 15 00 00;
```

The above example would set the clock to the year 2014, the month of September, the first day of the month, 3PM in the afternoon.