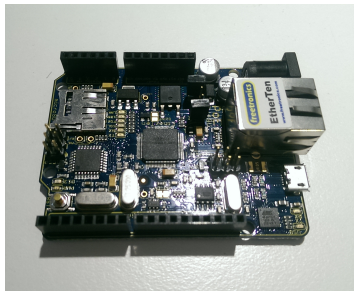# Graphing Air Quality Egg Data Instruction Manual
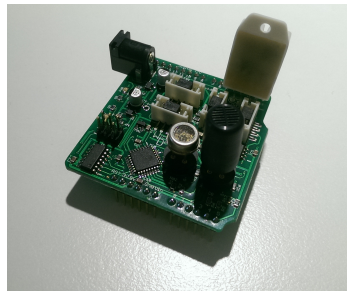
You will need:

1. Arduino with inbuilt Ethernet Shield.

2. Wicked Devices Air Quality Egg's sensor platform. Attached with a Carbon Monoxide (CO), Nitrogen Dioxide (NO2) and Temperature sensor.

3. ThingSpeak account and channel.

Instructions:

Step 1. Attach the sensor platform to the Arduino.
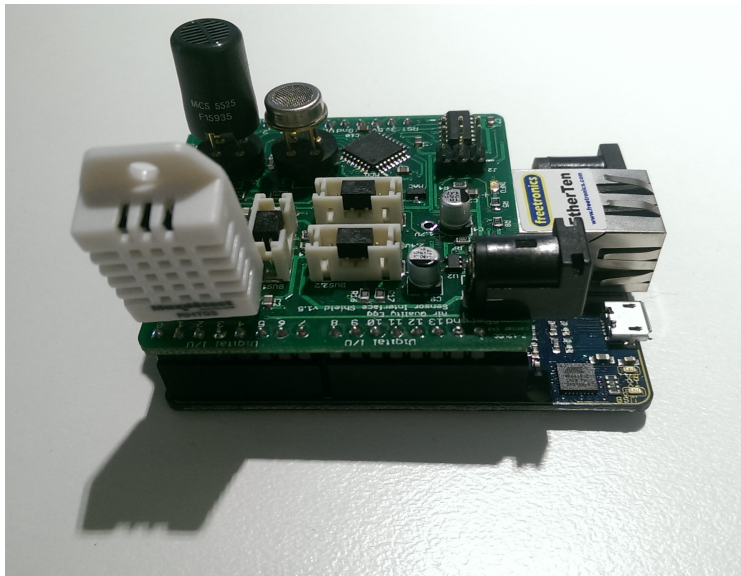

Arduino

Sensor board

Figure 1: Setting up hardware.

Step 2.   Open the AirQualityEggNanode.ino script and insert your own ThingSpeak channel API key as required in line 42.

```
// ThingSpeak Settings
char thingSpeakAddress[] = "api.thingspeak.com";
String writeAPIKey = "INSERT YOUR OWN API KEY IN HERE"; //<--------INSERT YOUR API KEY !
const int updateThingSpeakInterval = 10 * 1000;     // Time interval in milliseconds to

// Variable Setup
long lastConnectionTime = 0;
boolean lastConnected = false;
int failedCounter = 0;
```

Figure 2: AirQualityEggNanode.ino script snippet.

Step 3.   Upload the script into the Arduino.
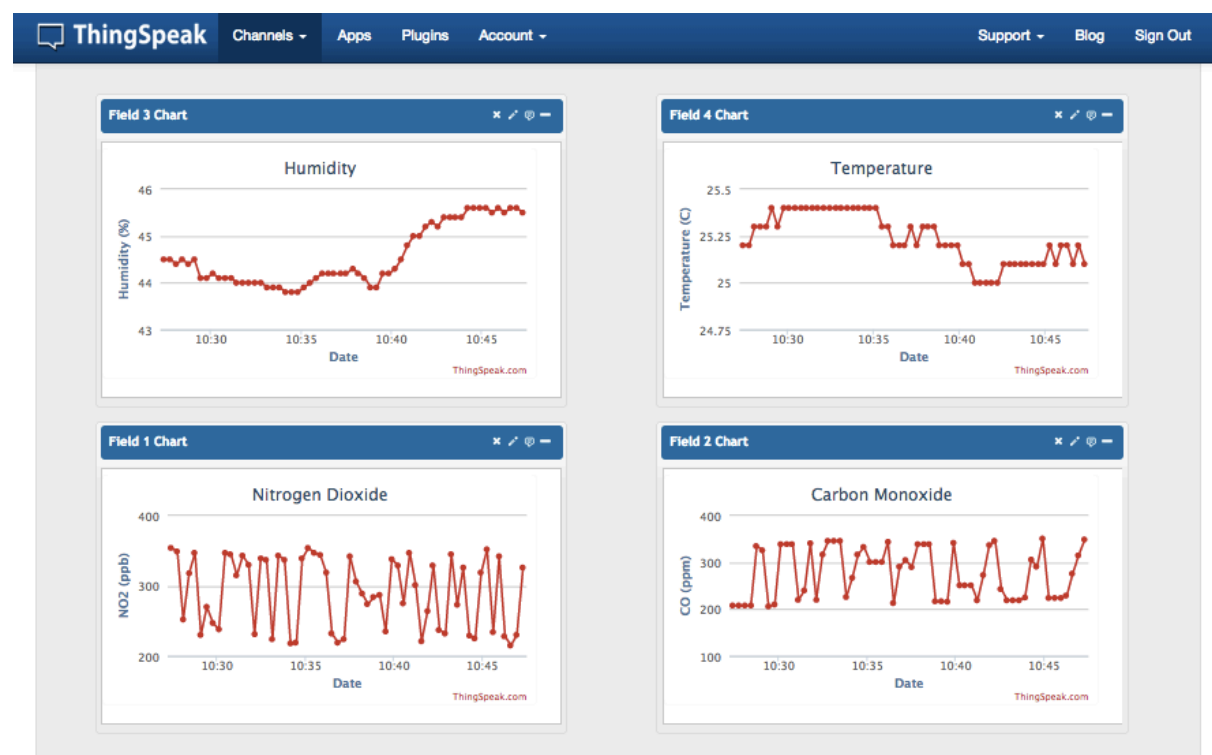
Step 4.   See the sensor data being graphed on your ThingSpeak channel in real-time!

Figure 3: ThingSpeak channel.