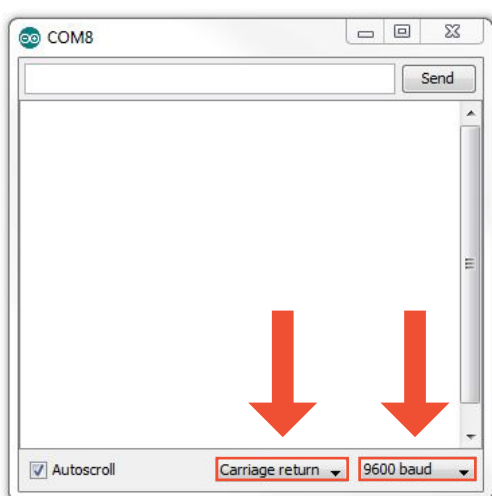
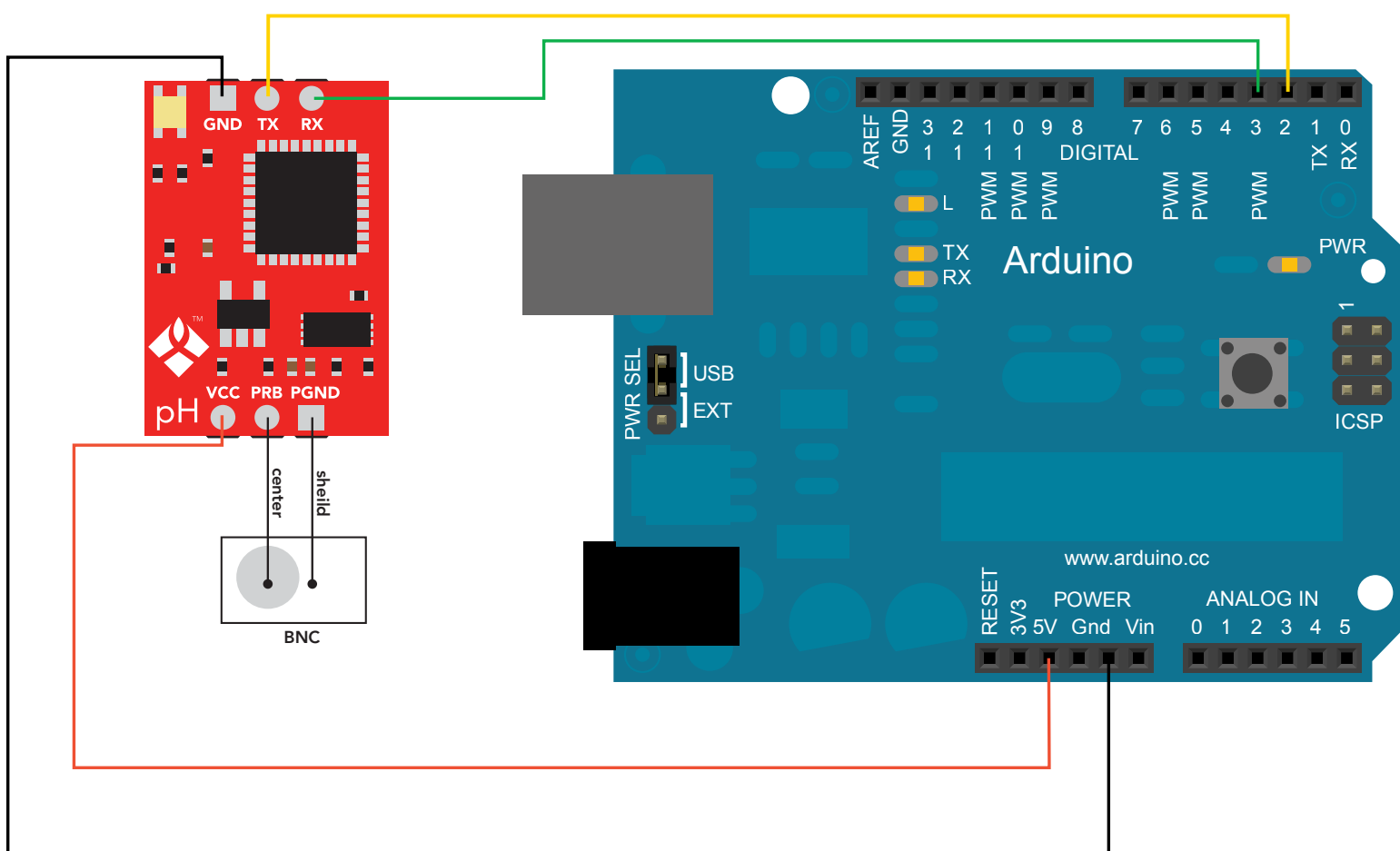




Arduino pH Sample Code



//This code was written to be easy to understand.
 //Code efficiency was not considered.
 //Modify this code as you see fit.
 //This code will output data to the Arduino serial monitor.
 //Type commands into the Arduino serial monitor to control the pH circuit.
 //This code was written in the Arduino 1.6.5 IDE
 //An Arduino UNO was used to test this code.



```
#include <SoftwareSerial.h>
#define rx 2
#define tx 3

SoftwareSerial myserial(rx, tx);

String inputstring = "";
String sensorstring = "";
boolean input_stringcomplete = false;
boolean sensor_stringcomplete = false;
float ph;

void setup() {
    Serial.begin(9600);
    myserial.begin(9600);
    inputstring.reserve(10);
    sensorstring.reserve(30);
}

void serialEvent() {
    char inchar = (char)Serial.read();
    inputstring += inchar;
    if (inchar == '\r') {
        input_stringcomplete = true;
    }
}

void loop() {
    if (input_stringcomplete) {
        myserial.print(inputstring);
        inputstring = "";
        input_stringcomplete = false;
    }

    if (myserial.available() > 0) {
        char inchar = (char)myserial.read();
        sensorstring += inchar;
        if (inchar == '\r') {
            sensor_stringcomplete = true;
        }
    }

    if (sensor_stringcomplete) {
        Serial.println(sensorstring);
        ph = sensorstring.toFloat();

        if (ph >= 7.0) {
            Serial.println("high");
        }

        if (ph <= 6.999) {
            Serial.println("low");
        }

        sensorstring = "";
        sensor_stringcomplete = false;
    }
}
```

[Click here to download the *.ino file](#)