

Calibration

1. Open the Calibrate.ino code in Arduino IDE.
2. Upload the program onto the Arduino.
3. Open the Serial Monitor by clicking Tools -> Serial Monitor.
4. Apply a known load to the device.
5. Adjust the device output in the Serial Monitor by entering + or – until the reading matches the applied load.
6. Apply other loads and adjust the reading until a suitable calibration factor is obtained.
7. Note the calibration factor to be used in the Programming step below.

Programming

1. Open the Program.ino code in Arduino IDE.
2. Modify the value for the *calibration_factor* variable to the value found in step 7 above.
3. Upload the program onto the Arduino.

```
#include "HX711.h"
#define calibration_factor 4201
#define DOUT 3
#define CLK 2

HX711 scale;

void setup() {
  Serial.begin(9600);
  scale.begin(DOUT, CLK);
  scale.set_scale(calibration_factor); //This value is obtained by using the Calibrate.ino program
  scale.tare(); //Assuming there is no weight on the scale at start up, reset the scale to 0
}

void loop() {
  myData = round(scale.get_units()); //scale.get_units() returns a float
  Serial.print('N');
  Serial.println(myData);
}
```