#include "HX711.h"

// HX711 circuit wiring

const int LOADCELL\_DOUT\_PIN = 23; const int LOADCELL\_SCK\_PIN = 22;

HX711 scale;

void setup() { Serial.begin(38400); Serial.println("HX711 Demo");

Serial.println("Initializing the scale");

// Initialize library with data output pin, clock input pin and gain factor.

// Channel selection is made by passing the appropriate gain:

// - With a gain factor of 64 or 128, channel A is selected

// - With a gain factor of 32, channel B is selected

// By omitting the gain factor parameter, the library

// default "128" (Channel A) is used here. scale.begin(LOADCELL\_DOUT\_PIN, LOADCELL\_SCK\_PIN);

Serial.println("Before setting up the scale:"); Serial.print("read: \t\t");

Serial.println(scale.read()); // print a raw reading from the ADC

Serial.print("read average: \t\t");

Serial.println(scale.read\_average(20)); // print the average of 20 readings from the ADC

Serial.print("get value: \t\t");

Serial.println(scale.get\_value(5)); // print the average of 5 readings from the ADC minus the tare weight (not set yet)

Serial.print("get units: \t\t");

Serial.println(scale.get\_units(5), 1); // print the average of 5 readings from the ADC minus tare weight (not set) divided

// by the SCALE parameter (not set yet)

scale.set\_scale(-202600.f); // this value is obtained by calibrating the scale with known weights; see the README for details

scale.tare(); // reset the scale to 0 Serial.println("After setting up the scale:");

Serial.print("read: \t\t");

Serial.println(scale.read()); // print a raw reading from the ADC

Serial.print("read average: \t\t");

Serial.println(scale.read\_average(20)); // print the average of 20 readings from the ADC

Serial.print("get value: \t\t");

Serial.println(scale.get\_value(5)); // print the average of 5 readings from the ADC minus the tare weight, set with tare()

Serial.print("get units: \t\t");

Serial.println(scale.get\_units(5), 3); // print the average of 5 readings from the ADC minus tare weight, divided

// by the SCALE parameter set with

set\_scale

Serial.println("Readings:");

}

void loop() { Serial.print("Weight Scale:\t"); Serial.print(scale.get\_units(), 3); Serial.println(" kg");

//Serial.print("\t| average:\t");

//Serial.println(scale.get\_units(10), 3);

//Serial.print(" kg");

scale.power\_down(); // put the ADC in sleep mode delay(2500);

scale.power\_up()