// Versão de 03 de junho de 2022

//só funciona se a altura máxima for de 2m

#define I2C\_SDA 21

#define I2C\_SCL 22

#include <SPI.h>

#include "Adafruit\_VL53L0X.h"

#include <Wire.h>

Adafruit\_VL53L0X lox = Adafruit\_VL53L0X();

int measure\_centimeter;

int level;

int volume\_liters;

void setup() {

Serial.begin(9600);

// wait until serial port opens for native USB devices

while (! Serial) {

delay(1);

}

Wire.begin(I2C\_SDA, I2C\_SCL);

if (!lox.begin()) {

Serial.println(F("Failed to boot VL53L0X"));

while(1);

}

}

void loop() {

VL53L0X\_RangingMeasurementData\_t measure;

// Serial.println("Reading a measurement... ");

lox.rangingTest(&measure, false); // pass in 'true' to get debug data printout!

if (measure.RangeStatus != 4) { // phase failures have incorrect data

measure\_centimeter = 0.1\*(measure.RangeMilliMeter);

level = 100 - 0.5\*(measure\_centimeter);

if (level >= 0)

{

Serial.print("Distance (cm): "); Serial.println(level);

}

} else {

Serial.println(" out of range ");

}

delay(1000);

}