#include <ModbusRTU.h>

ModbusRTU mb;

#include <SoftwareSerial.h>

int DE\_RE = 4; //D4 For MAX485 chip

int RX = 12;

int TX = 13;

#include "IntToFloat.h"

SoftwareSerial S(RX, TX);//D6/D7 (RX , TX)

uint16\_t Mread0[2];

bool cbWrite(Modbus::ResultCode event, uint16\_t transactionId, void\* data) {

Serial.printf\_P("Request result: 0x%02X, Mem: %d\n", event, ESP.getFreeHeap());

return true;

}

void setup() {

Serial.begin(115200);

S.begin(9600, SWSERIAL\_8N1);

mb.begin(&S, DE\_RE); //Assing Software serial port to Modbus instance for MAX485 chip having DI,DE,RE,RO Pin at TTL side

mb.master(); //Assing Modbus function as master

Serial.println(); //Print empty line

Serial.println(sizeof(Mread0)); //Reaing size of first array

}

void loop() {

if (!mb.slave()) {

// mb.readHreg(1, 2699, Mread0, 2 , cbWrite); //(SlaevID,Address,Buffer,Range of data,Modus call)

mb.readIreg(1, 1, Mread0, 2 , cbWrite); //(SlaevID,Address,Buffer,Range of data,Modus call)

//Serial.println(InttoFloat(Mread0[0], Mread0[1]));

Serial.println(Mread0[0]);

Serial.println(Mread0[1]);

}

mb.task();

delay(1000);

yield();

}

/\*

Modbus ESP8266/ESP32

Simple ModbesRTU to ModbusIP bridge

(c)2020 Alexander Emelianov (a.m.emelianov@gmail.com)

https://github.com/emelianov/modbus-esp8266

\*/

#ifdef ESP8266

#include <ESP8266WiFi.h>

#else //ESP32

#include <WiFi.h>

#endif

#include <ModbusIP\_ESP8266.h>

#include <ModbusRTU.h>

#define TO\_REG 10

#define SLAVE\_ID 1

#define PULL\_ID 1

#define FROM\_REG 20

ModbusRTU mb1;

ModbusIP mb2;

void setup() {

Serial.begin(115200);

WiFi.begin("SSID", "PASSWORD");

while (WiFi.status() != WL\_CONNECTED) {

delay(500);

Serial.print(".");

}

Serial.println("");

Serial.println("WiFi connected");

Serial.println("IP address: ");

Serial.println(WiFi.localIP());

Serial1.begin(9600, SERIAL\_8N1); // Init Serial on default pins

//Serial2.begin(19200, SERIAL\_8N1, 19, 18); // Override default pins for ESP32

mb1.begin(&Serial1);

//mb1.begin(&Serial2, 17); // Specify RE\_DE control pin

mb1.master();

mb2.server();

mb2.addHreg(TO\_REG);

}

void loop() {

if(!mb1.slave())

mb1.pullHreg(PULL\_ID, FROM\_REG, TO\_REG);

mb1.task();

mb2.task();

delay(50);

}