**ДОДАТОК 2**

**Код прошивки мікроконтролера блоку електричних даних**

#include <SPI.h>

#include <Ethernet.h>

byte mac[] = { 0xDE, 0xAD, 0xBE, 0xEF, 0xFE, 0xED };

char server[] = "http://169.254.0.180/solar\_api/v1/GetInverterRealtimeData.cgi";

// Set the static IP address to use if the DHCP fails to assign

IPAddress ip(192, 168, 0, 177);

EthernetClient client;

void setup() {

// Open serial communications and wait for port to open:

Serial.begin(9600);

// start the Ethernet connection:

if (Ethernet.begin(mac) == 0) {

Serial.println("Failed to configure Ethernet using DHCP");

// try to congifure using IP address instead of DHCP:

Ethernet.begin(mac, ip);

}

// give the Ethernet shield a second to initialize:

delay(1000);

Serial.println("connecting...");

// if you get a connection, report back via serial:

if (client.connect(server, 80)) {

Serial.println("connected");

// Make a HTTP request:

client.println("GET /search?q=arduino HTTP/1.1");

client.println("Host: www.google.com");

client.println("Connection: close");

client.println();

} else {

// if you didn't get a connection to the server:

Serial.println("connection failed");

}

}

void loop() {

// if there are incoming bytes available

// from the server, read them and print them:

if (client.available()) {

char c = client.read();

Serial.print(c);

}

// if the server's disconnected, stop the client:

if (!client.connected()) {

Serial.println();

Serial.println("disconnecting.");

client.stop();

// do nothing

delay(1000);

}

}