

Lampiran 2 Source Code Mikrokontroler Arduino uno

```
byte byte
void setup() {
  Serial.Begin (9600);
}

Void loop(){
  If (Serial.available()){
  byteRead = Serial.read();
  Serial.write (byteRead)
```

Lampiran 3 Source Code ESP8266

```
/**
 * BasicHTTPClient.ino
 *
 * Created on: 24.05.2015
 *
 */
#include <Arduino.h>

#include <ESP8266WiFi.h>
#include <ESP8266WiFiMulti.h>

#include <ESP8266HTTPClient.h>

#define USE_SERIAL Serial
```

```

ESP8266WiFiMulti WiFiMulti;

void setup() {

  USE_SERIAL.begin(115200);
  for(uint8_t t = 4; t > 0; t--) {
    USE_SERIAL.flush();
    delay(1000);
  }

  WiFiMulti.addAP("AndroidAP", "jordi12345");

}

void loop() {
  String data = USE_SERIAL.readString();
  // USE_SERIAL.println(data);
  // String data = " kirim<Status>GasNOL";
  // wait for WiFi connection
  if((WiFiMulti.run() == WL_CONNECTED)) {

    USE_SERIAL.print("1\n");
    int StatusData = data.indexOf(">");
    //int ldrData = data.indexOf(">");
    //int rdData = data.indexOf(">", ldrData + 1);
    //int hdData = data.indexOf(">", rdData + 1);
    //int posData = data.indexOf(">", hdData + 1);

    //int StatusTutup = data.indexOf("<");

```

```

//int ldrTutup = data.indexOf("<");
//int rdTutup = data.indexOf("<",ldrTutup + 1);
//int hdTutup = data.indexOf("<", rdTutup + 1);
//int posTutup = data.indexOf("<",hdTutup + 1);

String Status = data.substring(StatusData+1,data.length()-19);
//String ldr = data.substring(ldrData +1,rdTutup);
//String rd = data.substring(rdData +1,hdTutup);
//String hd = data.substring(hdData +1, posTutup);
//String pos = data.substring(posData +1,data.length()-14);

Serial.println("Status: "+Status);
//Serial.println("ldr: "+ldr);
//Serial.println("rd: "+rd);
//Serial.println("hd: "+hd);
//Serial.println("pos: "+pos);

if(data.startsWith("kirim")){
    HTTPClient http;

//    String
    url+= Status;
    //url+= ldr;
    //url+= "&rd=";
    //url+= rd;
    //url+= "&hd=";
    //url+= hd;
    //url+= "&pos=";
    //url+= pos;

```

```
http.begin(url);
Serial.println("Url: "+ url);
// USE_SERIAL.print("kirim data ke server status: ");
int httpCode = http.GET();
if(httpCode > 0) {
  USE_SERIAL.println(httpCode);
  if(httpCode == HTTP_CODE_OK) {
    String payload = http.getString();
    char charBuff[payload.length() + 1];
    payload.toCharArray(charBuff,200);
    USE_SERIAL.println(payload);
    delay(500);
  }
} else {
  USE_SERIAL.printf(http.errorToString(httpCode).c_str());
}

USE_SERIAL.flush();
http.end();
}

delay(10000);
}
}
```

