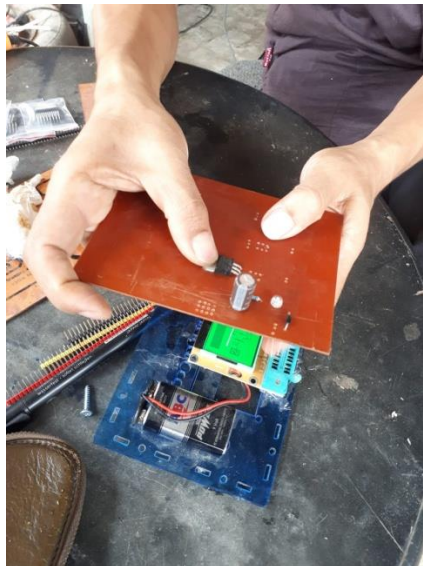


DOKUMENTASI







Script ESP8266

```
#define BLYNK_MAX_SENDBYTES 300
unsigned count=0;
int datakomplete;
String inString = ""; // string to hold input
#define BLYNK_PRINT Serial
#include <SPI.h>
#include <ESP8266WiFi.h>
#include <BlynkSimpleEsp8266.h>
char auth[] = "cb2ac3ab250d4af48c03d6d46fe400cb";
// Your WiFi credentials.
// Set password to "" for open networks.
char ssid[] = "IoT123";
char pass[] = "qwerty123";
int a,b,c,d,e;
String A="";
String B="";
String C="";
String D="";
WidgetLCD lcd(V10);
int minimum=25;
BlynkTimer timer;
void setup() {
timer.setInterval(1000L, myTimerEvent);
// Open serial communications and wait for port to open:
Serial.begin(9600);
while (!Serial) {
; // wait for serial port to connect. Needed for native USB port only
}
Blynk.begin(auth, ssid, pass);
// send an intro:
Serial.println("\n\nString toInt():");
Serial.println();
Blynk.virtualWrite(5,1023);
Blynk.virtualWrite(6,1023);
Blynk.virtualWrite(7,1023);
Blynk.virtualWrite(8,1023);
Blynk.setProperty(V5, "color", "#23C48E");
Blynk.setProperty(V6, "color", "#23C48E");
Blynk.setProperty(V7, "color", "#23C48E");
Blynk.setProperty(V8, "color", "#23C48E");
lcd.clear();
}
int kode;
int key,keys;
void myTimerEvent()
```

```

{
  Blynk.virtualWrite(0,A);
  Blynk.virtualWrite(1,B);
  Blynk.virtualWrite(2,C);
  Blynk.virtualWrite(3,D);
}
void loop() {
  Blynk.run();
  timer.run(); // Initiates BlynkTimer
  // Read serial input:
  while (Serial.available() > 0) {
    int inChar = Serial.read();
    if (inChar == '!') { //name
      Serial.print("input A");
      inChar = ' ';
      kode=1;
      a=1;
    }
    if (inChar == '@') { //
      Serial.print("input B");
      inChar = ' ';
      kode=2;
      b=1;
    }
    if (inChar == '#') { //
      Serial.print("input C");
      inChar = ' ';
      kode=3;
      c=1;
    }
    if (inChar == '$') { //
      Serial.print("input D");
      inChar = ' ';
      kode=4;
      d=1;
    }
    if(kode==1){
      inString += (char)inChar;
      if (inChar == '\n') {
        A=inString;
        String inputString ="";
        if(inString.toInt()>minimum){
          Blynk.setProperty(V5, "color", "#23C48E");
        }
        if(inString.toInt()<=minimum){
          Blynk.setProperty(V5, "color", "#D3435C");
        }
      }
    }
  }
}

```

```

// clear the string for new input:
inString = "";
kode=0;
}
}
if(kode==2){
inString += (char)inChar;
if (inChar == '\n') {
    B=inString;
    if(inString.toInt()>minimum){
Blynk.setProperty(V6, "color", "#23C48E");
    }
    if(inString.toInt()<=minimum){
Blynk.setProperty(V6, "color", "#D3435C");
    }
    // clear the string for new input:
    inString = "";
    kode=0;
}
}
if(kode==3){
inString += (char)inChar;
if (inChar == '\n') {
C=inString;
if(inString.toInt()>minimum){
Blynk.setProperty(V7, "color", "#23C48E");
}
if(inString.toInt()<=minimum){
Blynk.setProperty(V7, "color", "#D3435C");
}
inString = "";
kode=0;
}
}
if(kode==4){
inString += (char)inChar;
if (inChar == '\n') {
    D=inString;
    if(inString.toInt()>minimum){
Blynk.setProperty(V8, "color", "#23C48E");
    }

if(inString.toInt()<=minimum){
Blynk.setProperty(V8, "color", "#D3435C");
}
}
}
}

```

```
inString = "";  
kode=0;  
}  
}  
}  
}
```

Script Sensor Metal

```
int buz=11;
int metal;
long a,b,c;
void setup() {
  pinMode(buz,OUTPUT);
  Serial.begin(9600);
}
int n,metal_v;
void loop() {
  int readValue = analogRead(A0);
  double dc_kal_v=0.025;
  double DC_V_VRMS = readValue*dc_kal_v;
  metal=digitalRead(A1);
  n=n+1;
  if(n>=20){n=0;
  Serial.print("!");
  Serial.print(DC_V_VRMS);
  Serial.println();
  Serial.print("@");
  Serial.print(metal_v);
  Serial.println();
  Serial.print("#");
  Serial.print(c);
  Serial.println();
  delay(500);
  }
  if(metal==1) {digitalWrite(buz,HIGH);metal_v=1023;}
  if(metal==0){ metal_v=0;digitalWrite(buz,LOW);}
}
```