

LAMPIRAN A

DAFTAR PROGRAM ARDUINO IDE

A. Program Arduino Untuk Sensor DHT22

```
#include <ESP8266WiFi.h>
#include "DHT.h"
#define DHTPIN 2 // PIN D4 GPIO 2
#define DHTTYPE DHT22
DHT dht(DHTPIN, DHTTYPE);
float suhu, kelembaban; //suhu dan kelembaban pakaianDHT22
void loop()
{

    suhu = dht.readTemperature();
    kelembaban = dht.readHumidity();

    if (isnan(suhu) || isnan(kelembaban))
    {
        Serial.println(F("Sensor DHT22 ERROR"));
        return;
    }
}
```

B. Program Arduino Untuk LCD 16x2 I2C

```
#include <ESP8266WiFi.h>
#include <LCD_I2C.h>
LCD_I2C lcd(0x27, 16, 2);
void setup()
{
    lcd.begin();
    lcd.backlight();

    lcd.print("Temp : ");
    lcd.print(suhu);
    lcd.print(" ");
    lcd.print((char) 223);
    lcd.print("C ");
    lcd.setCursor(0, 1);
}
```

```

lcd.print("Humi : ");
lcd.print(kelembaban);
lcd.print(" % ");
lcd.setCursor(0, 0);
delay(500);
}

```

C. Program Arduino Untuk *Heater* dengan Relay

```

#define relay3 12 // PIN D6 GPIO 12
#define relay4 13 // PIN D7 GPIO 13
void setup()
{
  pinMode(relay3, OUTPUT);
  pinMode(relay4, OUTPUT);
  digitalWrite(relay3, HIGH);
  digitalWrite(relay4, HIGH);
}
void loop()
{
  if ( data1 == 1)
  {
    digitalWrite(relay3, LOW);
    digitalWrite(relay4, LOW);
  }
  else if ( data1 == 0)
  {
    digitalWrite(relay3, HIGH);
    digitalWrite(relay4, HIGH);
  }
}

```

D. Program Arduino Untuk kipas dc dengan Relay

```

#define relay1 16 // PIN D6 GPIO 16
#define relay2 15 // PIN D7 GPIO 14
void setup()
{
  pinMode(relay1, OUTPUT);
  pinMode(relay2, OUTPUT);
}

```

```
digitalWrite(relay1, HIGH);  
digitalWrite(relay2, HIGH);  
}  
void loop()  
{  
  if ( data1 == 1)  
  {  
    digitalWrite(relay1, LOW);  
    digitalWrite(relay2, LOW);  
  }  
  else if ( data1 == 0)  
  {  
    digitalWrite(relay1, HIGH);  
    digitalWrite(relay2, HIGH);  
  }  
}
```

LAMPIRAN B

BLOK PROGRAM APLIKASI ANDROID

Blok Program Monitoring suhu dan kelembaban pada aplikasi android.

```
when Screen BackPressed
do
  close application

initialize global [ ] to 0.00
initialize global [ ] to 0.00
initialize global [URL_Thingspeak] to https://api.thingspeak.com/channels/174834/feed
initialize global [ApiKeyThingspeak] to 88000PYQ2ESYGEDE
initialize global [StatusChannelThingspeak] to Statussetung

when SYSTEM ON Click
do
  set [Web2] [URL] to https://api.thingspeak.com/update?api_key=ESUES0
  set [Status-system] [TextColor] to ON
  set [Status-system] [TextColor] to
  call [Web2] Get

when SYSTEM OFF Click
do
  set [Web2] [URL] to https://api.thingspeak.com/update?api_key=ESUES0
  set [Status-system] [TextColor] to OFF
  set [Status-system] [TextColor] to
  call [Web2] Get

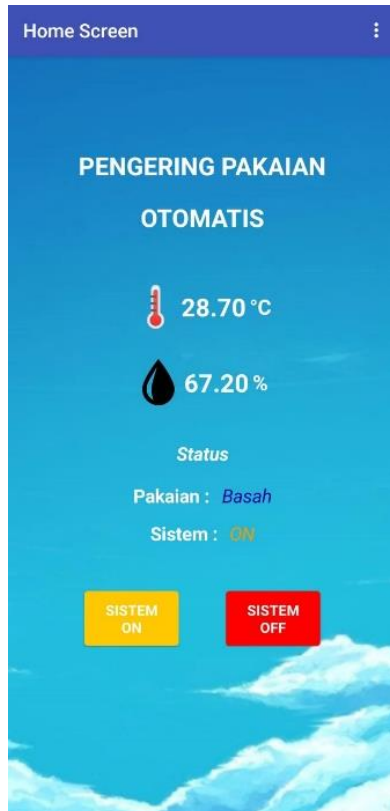
when [Web2] Get last
url
responseCode
responseType
responseContent
do
  if [responseCode] == 200
  then
    initialize local [json] to call [Web2] jsonText.decode
    in [global [ ]] look up in pairs key [id1] get [responseContent]
    parts [json]
    get [id1]
    notFound
    set [global [id1]] look up in pairs key [id2] parts [json]
    get [id2]
    not null
    get [id2]

when [Clock] Timer
do
  call [Konsumsi]
  set [Nilai-Suhu] [text] to [get [global [id1]]]
  set [Nilai-Kelembaban] [text] to [get [global [id2]]]
  if
  [get [global [id1]] <= 33] and [get [global [id2]] <= 65]
  then
    set [status_pakaian] [text] to Basah
    set [status_pakaian] [TextColor] to
    set [Web2] [URL] to https://api.thingspeak.com/update?api_key=ESUES0
    set [Status-system] [text] to ON
    set [Status-system] [TextColor] to
    call [Web2] Get
  else if
  [get [global [id1]] >= 35] and [get [global [id2]] <= 65] and [get [global [id1]] <= 40]
  then
    set [status_pakaian] [text] to Lembab
    set [status_pakaian] [TextColor] to
    set [Web2] [URL] to https://api.thingspeak.com/update?api_key=ESUES0
    set [Status-system] [text] to ON
    set [Status-system] [TextColor] to
    call [Web2] Get
  else if
  [get [global [id1]] <= 30] and [get [global [id2]] <= 60] and [get [global [id1]] <= 65] and [get [global [id2]] <= 75]
  then
    set [status_pakaian] [text] to Kering
    set [status_pakaian] [TextColor] to
    set [Web2] [URL] to https://api.thingspeak.com/update?api_key=ESUES0
    set [Status-system] [text] to OFF
    set [Status-system] [TextColor] to
    call [Web2] Get
  else
    set [status_pakaian] [text] to [WAL]
    set [status_pakaian] [TextColor] to
```

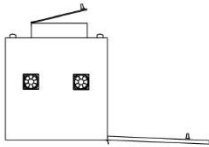
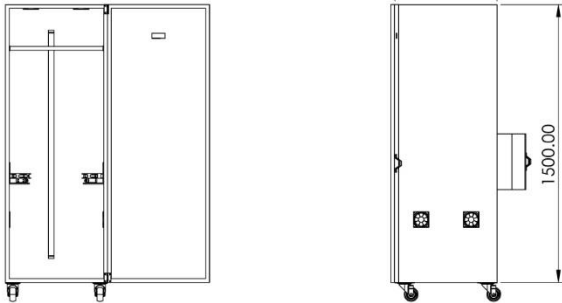
LAMPIRAN C



TAMPILAN MONITORING PADA APLIKASI ANDROID

Hasil Monitoring suhu dan kelembaban pada aplikasi android.

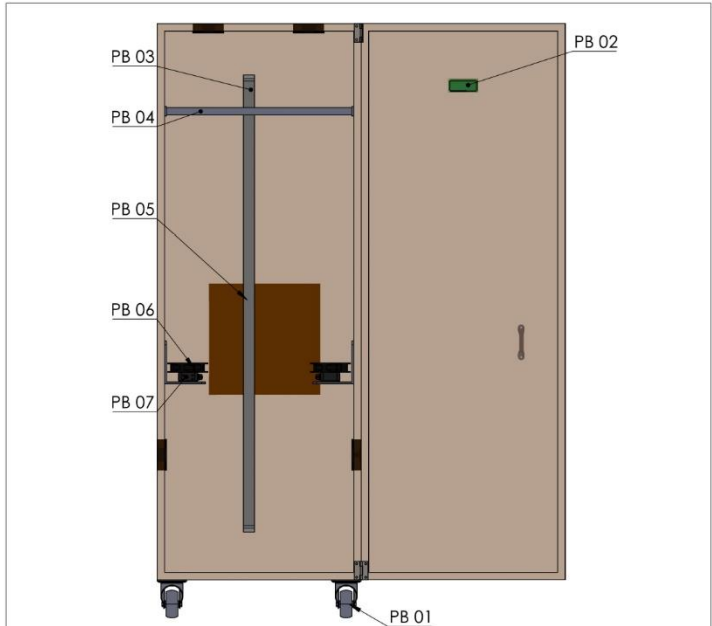


LAMPIRAN D ETIKET DESAIN MEKANIK ALAT

SMART CABINET PENGERING PAKAIAN				1500x550							
JML	NAMA BAGIAN					POS	BAHAN	UKURAN JADI	UKURAN KASAR	NO. ID	F
>	0	6	30	120	400	1000	PEKERJAAN LANJUT	NO ORDER	 PROYEKSI		
<	6	30	120	400	1000	2000					
TOL	± 0,1	± 0,2	± 0,3	± 0,5	± 0,8	± 1,2					
NAMA								SKALA	DIGAMBAR	Aff Nur	23-07-2022
SMART CABINET PENGERING PAKAIAN								1:5	DIPERIKSA		
									DISAHKAN		
NO. ASSY. :								FORMAT	mm		
 POLITEKNIK NEGERI CILACAP, JURUSAN TEKNIK ELEKTRONIKA Jl. dr. SOETOMO, NO : 01, SIDAKAYA, CILACAP, 53212 TELP. : 0282 - 533329; E-mail : 1mpnc@politeknikcilacap.ac.id								A4			

CILACAP, KOTA TAYU, DIN. TERPILUS DARI POLITEKNIK NEGERI CILACAP
 DALAM RANGKAIAN KEGIATAN PEMERIKSAAN DAN PENGANTARAN
 DOKUMEN MEKANIKA



2	HEATER								PB 07
6	KIPAS DC								PB 06
1	SENSOR DHT22								PB 05
1	GANTUNGAN BAJU								PB 04
1	ULTRAVIOLET-C								PB 03
1	LCD 16X2								PB 02
4	RODA								PB 01

JML	NAMA BAGIAN	POS	BAHAN	UKURAN JADI	UKURAN KASAR	NO. ID	F
>	0	6	30	120	400	1000	PEKERJAAN LANJUT
<	6	30	120	400	1000	2000	
TOL	+ 0.1	+ 0.2	+ 0.3	+ 0.5	+ 0.8	+ 1.2	

NAMA SMART CABINET PENGERING PAKAIAN	SKALA	DIGAMBAR	Afi Nur	23-07-2022
		DIPERIKSA		
		DISAHKAN		

NO. ASSY. :  POLITEKNIK NEGERI CILAP, JURUSAN TEKNIK ELEKTRONIKA JL. dr. SOETOMO, NO : 01, SIDAKAYA, CILAP, 53212 TELP. : 0282 - 333329, E-mail : tnpnc@politeknikcilacap.ac.id	FORMAT A4	mm		
--	--------------	----	--	--

© GAMBAR BUKU PAJUBA, DAN VERTIKAL DAN POLITEKNIK NEGERI CILAP
 DALAM RANGKA MEMODIFIKASI, MEMEREMBAH, MENYALIN, MEMEREMBAH, MENYALIN, MEMEREMBAH, MENYALIN, MEMEREMBAH, MENYALIN

LAMPIRAN E
HASIL MEKANIK ALAT

Tampak Luar



E-1

Tampak Dalam

