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LAMPIRAN

Lampiran A. Kode Program Arduino

```
#include <Wire.h>
#include <DallasTemperature.h>
#include <LiquidCrystal_I2C.h>
LiquidCrystal_I2C lcd(0x27, 16, 2);

OneWire wiring(6);
DallasTemperature sensors(&wiring);

#define r1 8

void setup() {
  // put your setup code here, to run once:
  pinMode(r1, OUTPUT);

  sensors.begin();
  lcd.init();
  lcd.backlight();
}

void loop() {
  // put your main code here, to run repeatedly:
  sensors.setResolution(12);
  sensors.requestTemperatures();
  float temperature = sensors.getTempCByIndex(0);

  lcd.clear();
  lcd.setCursor(2,0);
  lcd.print("Suhu: ");
  lcd.setCursor(8,0);
  lcd.print(temperature, 1);
  lcd.print((char)223);
```

```
lcd.print("C");
delay(1000);

//Relay

if(temperature < -10)
{
digitalWrite(r1,HIGH);
lcd.setCursor(1, 1);
  lcd.print("Kompresor mati");
  delay(5000);
}

if(temperature > -5)
{
digitalWrite(r1,LOW);
lcd.setCursor(1, 1);
  lcd.print("Kompresor nyala");
  delay(5000);
}

}
```

Lampiran B. Foto Pengambilan Data



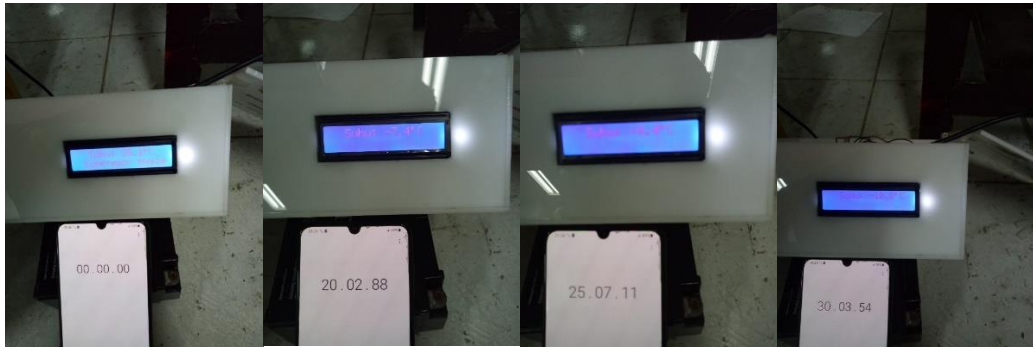
Gambar B.1 Pembuatan rangkaian thermostat arduino



Gambar B.2 Pemasangan rangkaian thermostat arduino pada sistem pendingin



Gambar B.3 Pengambilan data



Gambar B.4 Percobaan 1



Gambar B.5 Percobaan 2

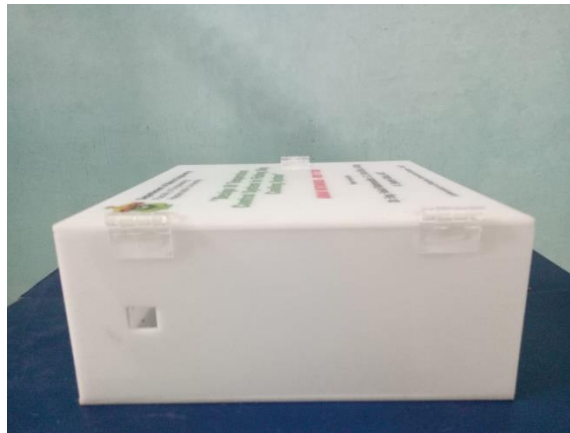


Gambar B.6 Percobaan 3

Lampiran C. Gambar Alat



Gambar C.1 Tampak Depan



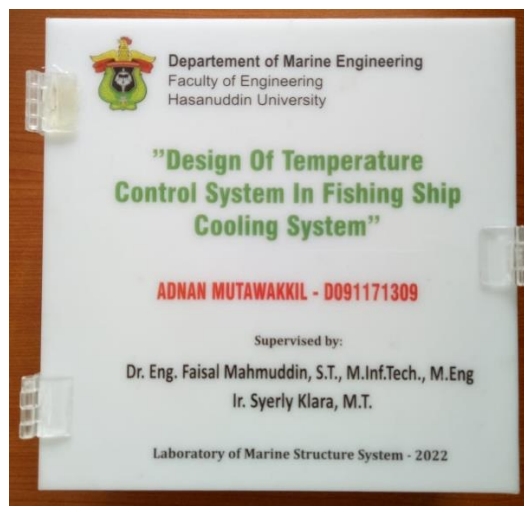
Gambar C.2 Tampak Kanan



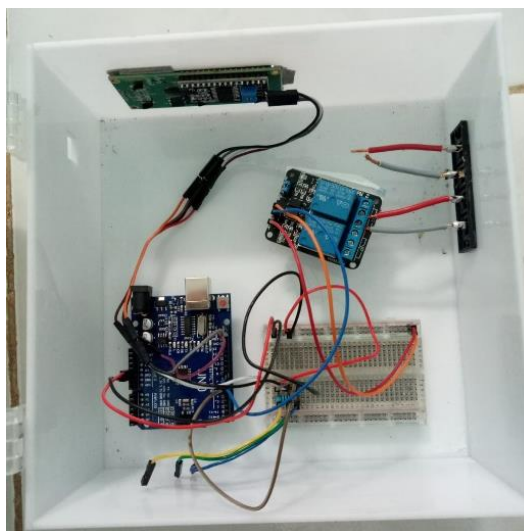
Gambar C.3 Tampak Kiri



Gambar C.4 Tampak Belakang



Gambar C.5 Tampak Atas



Gambar C.7 Tampak Dalam