

Daftar Pustaka

- [1] A. Septiyanto, J. Warta, and R. Sari, "Aplikasi Pendeteksi Kebocoran Gas LPG Berbasis Wemos ESP8266 Menggunakan Peringatan Notifikasi Pada Whatsapp," 2021. [Online]. Available: <http://ejurnal.ubharajaya.ac.id/index.php/JSRCS>
- [2] S. Hadi and A. Adil, "RANCANG BANGUN PENDETEKSI GAS BERBASIS SENSOR MQ-2."
- [3] N. Usva, T. Khasanah, A. Rakhman, and A. Maulana, "IMPLEMENTASI HARDWARE SISTEM PENDETEKSI KEBOCORAN GAS DAN KEBAKARAN MENGGUNAKAN NODEMCU ESP8266."
- [4] A. Savitri Puspaningrum, F. Firdaus, I. Ahmad, and H. Anggono, "Indonesia 35132 3,4) Program Studi Informatika, Fakultas Teknik dan Ilmu Komputer," 2020.
- [5] D. Numaningsih, "Pendeteksi Kebocoran Tabung LPG Melalui SMS Gateway Menggunakan Sensor MQ-2 Berbasis Arduino Uno," *JURNAL TEKNIK INFORMATIKA*, vol. 11, no. 2, pp. 121–126, Nov. 2018, doi: 10.15408/jti.v11i2.7512.
- [6] L. Akhir, "Politeknik Negeri Sriwijaya."
- [7] W. J. Missah and E. Hutabri, "PENDETEKSI KEBOCORAN GAS LPG MELALUI SMS GATEWAY DENGAN MENGGUNAKAN SENSOR MQ2 BERBASIS ARDUINO UNO," *JURNAL COMASIE*, vol. 06, no. 04, 2022.
- [8] D. Hidayat, J. Kampung Melayu Besar No, K. Baru, and J. Selatan, "PROTOTYPE ALAT PENDETEKSI ASAP ROKOK DI SMAN 10 JAKARTA BERBASIS ARDUINO UNO MENGGUNAKAN SENSOR ASAP MQ2 UNTUK MEWUJUDKAN KAWASAN TANPA ROKOK."
- [9] M. Rozi and D. Kusumaningsih, "PENERAPAN NODEMCUESP32, MQ2 SENSOR GUNA MEMONITORING KEBOCORAN GAS LPG BERBASIS WEBSITE," 2022.

- [10] "SISTEM PEMANTAU KADAR GAS CO BERBASIS IOT PADA LAYAR LCD MENGGUNAKAN APLIKASI NEXTION EDITOR."
- [11] I. Muklisiin and A. Sholehuddin, "Imam Muklisiin, Ahmad Sholehuddin, Muklison. 2017. Pendeteksi Volume Tandon Air Secara Otomatis Menggunakan Sensor Ultrasonic Berbasis Arduino Uno R3," *Jurnal Qua Teknika*, vol. 7, no. 2, pp. 55–65, 2017.
- [12] H. Jurnal and R. Akhmad Fauzi, "JURNAL MANAJEMEN DAN TEKNIK INFORMATIKA PENDETEKSI KEBOCORAN GAS MENGGUNAKAN SENSOR MQ-2 BERBASIS ARDUINO UNO," *JUMANTAKA*, vol. 03, p. 1, 2019.
- [13] R. Fatahillah Murad, G. Almasir, C. Ronald Harahap, T. Komputer, L. Ratu, and B. Lampung, "PENDETEKSI GAS AMONIA UNTUK PEMBESARAN ANAK AYAM PADA BOX KANDANG MENGGUNAKAN MQ-135," *Jurnal Ilmiah Mahasiswa Kendali dan Listrik*, vol. 3, no. 1, 2022, doi: 10.33365/jimel.v1i1.
- [14] D. Agus and D. Pranata, "PROTOTYPE SISTEM PENDETEKSI KEBOCORAN LIQUIFIED PETROLEUM GAS BERBASIS ARDUINO DAN CALL GATEWAY," *Ubiquitous: Computers and its Applications Journal*, vol. 2, no. 1, pp. 11–20, 2019.
- [15] Amsar and M. Khairuman, "METHOMIKA: Jurnal Manajemen Informatika & Komputerisasi Akuntansi PERANCANGAN ALAT PENDETEKSI CO2 MENGGUNAKAN SENSOR MQ-2 BERBASIS INTERNET OF THING," vol. 4, no. 1, 2020, doi: 10.46880/jmika.Vol4No1.pp73-79.
- [16] A. Nur Alfian and V. Ramadhan, "PROTOTYPE DETEKTOR GAS DAN MONITORING SUHU BERBASIS ARDUINO UNO," vol. 9, no. 2, 2022.
- [17] B. Hardiansyah and A. Amborowati, "PERANCANGAN KUNCI PINTU PINTAR MENGGUNAKAN NFC SHIELD DAN ARDUINO."
- [18] R. Andriawan, D. Berliani, Y. Sarigih, and U. Latifa, "Rancangan Bangun Sistem Pendeteksi Kebocoran Gas LPG Menggunakan Nodemcu ESP866 Berbasis

Internet,” *Science, and Physics Education Journal (SPEJ)*, vol. 6, no. 1, pp. 33–41, Dec. 2022, doi: 10.31539/spej.v6i1.4394.

- [19] A. Silalahi, D. Hartama, I. Okta Kirana, I. Gunawan, and K. Kunci, “Jurnal Krisnadana Volume x Number x.” [Online]. Available: <https://ejournal.catuspata.com/index.php/jkdn/index>
- [20] A. Nurhuda, M. Risky Ramadhani, T. Informatika, S. Widya Cipta Dharma, J. M. Yamin No, and S. -Kalimantan Timur, “MEMBANGUN KENDALI GERAK KAMERA JARAK JAUH MENGGUNAKAN APLIKASI BLYNK BERBASIS MIKROKONTROLER SEBAGAI SARANA PENUNJANG BIDANG MULTIMEDIA PADA PT. GRAND VICTORIA INTERNASIONAL HOTEL”.
- [21] A. E. Kurniawan, M. Waruni, A. Asni, and T. Elektro, “PERANCANGAN PROTOTYPE ALAT PENDETEKSI KEBOCORAN GAS LPG BERBASIS ARDUINO UNO R3 DENGAN MODUL SIM800L DAN ESP8266 SEBAGAI MEDIA INFORMASI,” 2020.
- [22] G. Sastra Utara and W. Setiawan, “PROTOTIPE MONITORING SUHU RUANGAN DAN DETEKTOR GAS BOCOR BERBASIS APLIKASI BLYNK,” 2020.
- [23] “Sistem Pendeteksi Kebocoran Pada Gas Lpg Dengan Sensor Mq-6 Menggunakan Metode Fuzzy Logic Lpg Gas Leakage Detection System Using Mq-6 Sensor With Fuzzy Logic Method.”

```

#include <Wire.h>

#include <LiquidCrystal_I2C.h>

LiquidCrystal_I2C lcd(0x27, 16, 2);

#define BLYNK_TEMPLATE_ID "TMPL6DRAt-Cc6"

#define BLYNK_TEMPLATE_NAME "monitoring gas"

#define BLYNK_AUTH_TOKEN "VEtRAW6XrN6dioeVSaM0b-u9QCdUilmj"

#define BLYNK_PRINT Serial

#include <WiFi.h>

#include <WiFiClient.h>

#include <BlynkSimpleEsp32.h>

char ssid[] = "ww";

char pass[] = "12345678";

BlynkTimer timer;

const int Gas1 = 34;

const int Gas2 = 35;

const int buzzer = 4;

const int led1 = 5;

const int led2 = 19;

int gas1, gas2;

float rgas;

String st = "Aman";

```



```
float gasmax = 1023, gasmin = 40;
```

```
void sendSensor()
```

```
{
```

```
    analogReadResolution(10);
```

```
    gas1 = analogRead(Gas1);
```

```
    gas2 = analogRead(Gas2);
```

```
    rgas = (gas1 + gas2) / 2;
```

```
    float fuzzygas = rgas / (gasmax - gasmin);
```

```
    if (fuzzygas >= 0.8) {
```

```
        digitalWrite(buzzer, HIGH);
```

```
        st = "Gas Tinggi";
```

```
        digitalWrite(led1, HIGH);
```

```
        digitalWrite(led2, LOW);
```

```
    } else if (fuzzygas >= 0.6) {
```

```
        st = "Gas Sedang";
```

```
        digitalWrite(led1, HIGH);
```

```
        digitalWrite(led2, HIGH);
```

```
        digitalWrite(buzzer, HIGH);
```



```
delay(500);  
digitalWrite(buzzer, LOW);  
} else {  
  st = "Gas Aman";  
  digitalWrite(buzzer, LOW);  
  digitalWrite(led1, LOW);  
  digitalWrite(led2, HIGH);  
}
```

```
lcd.setCursor(0, 0);  
lcd.print("S1:");  
lcd.setCursor(3, 0);  
lcd.print(gas1);  
lcd.print(" ");  
lcd.setCursor(8, 0);  
lcd.print("S2:");  
lcd.setCursor(11, 0);  
lcd.print(gas2);  
lcd.print(" ");  
lcd.setCursor(0, 1);  
lcd.print("st: ");  
lcd.setCursor(3, 1);  
lcd.print(st);
```



```
lcd.print(" ");
```

```
Serial.println(gas1);
```

```
Serial.println(gas2);
```

```
Serial.println(rgas);
```

```
Serial.println(st);
```

```
Serial.println("fuzzy= " + String(fuzzygas));
```

```
Blynk.virtualWrite(V0, gas1);
```

```
Blynk.virtualWrite(V1, gas2);
```

```
Blynk.virtualWrite(V2, rgas);
```

```
Blynk.virtualWrite(V3, st);
```

```
}
```

```
void setup()
```

```
{
```

```
Serial.begin(115200);
```

```
lcd.begin();
```

```
lcd.setCursor(0, 0);
```

```
lcd.print("Hello...");
```

```
pinMode(Gas1, INPUT);
```

```
pinMode(Gas2, INPUT);
```

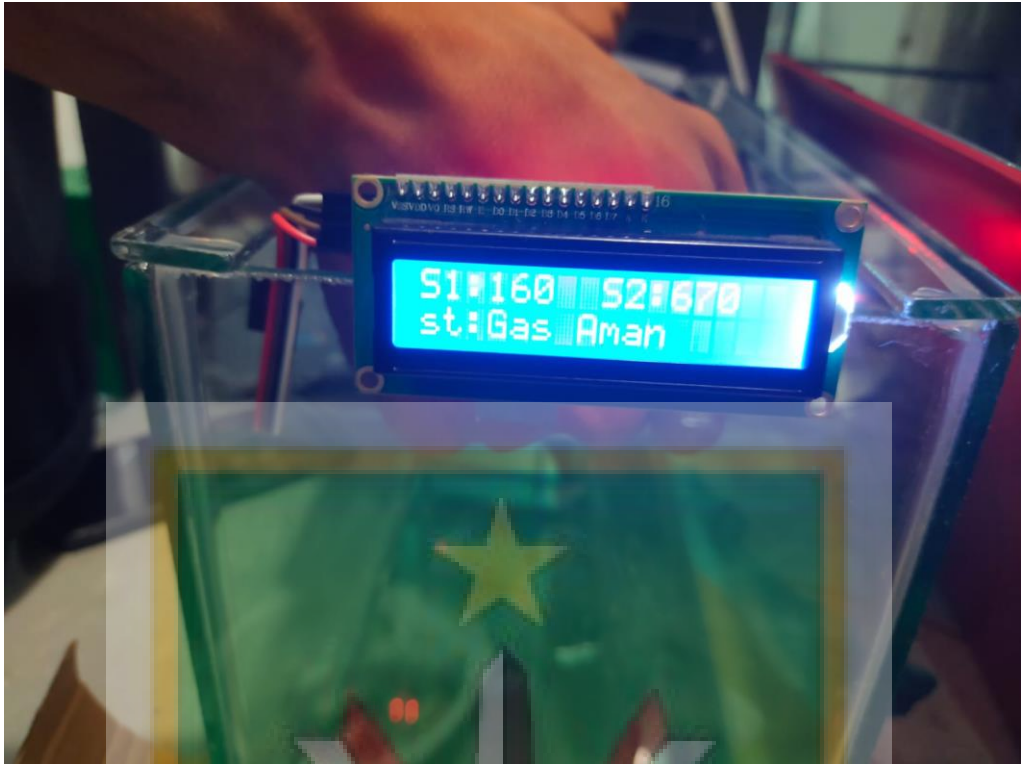
```
pinMode(buzzer, OUTPUT);
```

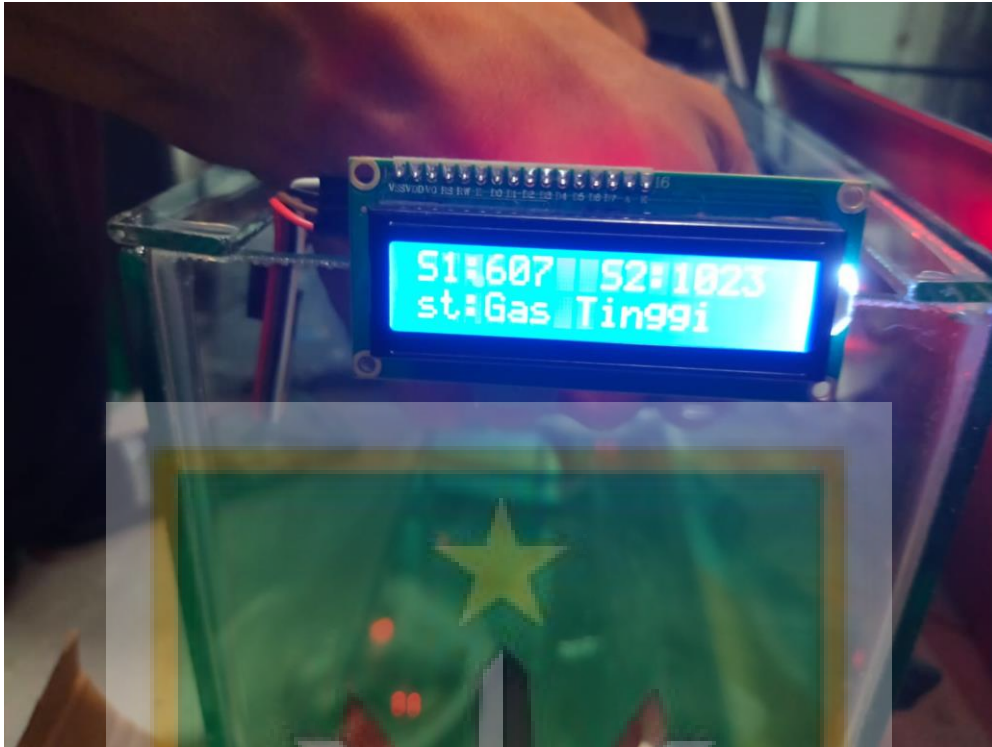
```
pinMode(led1, OUTPUT);
```



```
pinMode(led2, OUTPUT);  
  
Blynk.begin(BLYNK_AUTH_TOKEN, ssid, pass);  
  
timer.setInterval(1000L, sendSensor);  
  
lcd.clear();  
}  
  
void loop()  
{  
  Blynk.run();  
  timer.run();  
}
```







skripsi habibi

ORIGINALITY REPORT

14%	11%	2%	9%
SIMILARITY INDEX	INTERNET SOURCES	PUBLICATIONS	STUDENT PAPERS

PRIMARY SOURCES

1	Submitted to Universitas Islam Lamongan Student Paper	3%
2	repository.ubharajaya.ac.id Internet Source	2%
3	repository.umsu.ac.id Internet Source	2%
4	repository.pnj.ac.id Internet Source	1%
5	eprints.poltektegal.ac.id Internet Source	1%
6	ejurnal.dipanegara.ac.id Internet Source	1%
7	etd.repository.ugm.ac.id Internet Source	1%
8	repository.unej.ac.id Internet Source	1%
9	digilib.uin-suka.ac.id Internet Source	<1%
13	Submitted to Institut Teknologi Nasional Malang Student Paper	<1%
14	repository.sttektstil.ac.id Internet Source	<1%
15	Submitted to University of Northumbria at Newcastle Student Paper	<1%
16	docplayer.info Internet Source	<1%
17	studylibid.com Internet Source	<1%
18	forum.arduino.cc Internet Source	<1%
19	humaniora.journal.ugm.ac.id Internet Source	<1%
20	repositori.unsil.ac.id Internet Source	<1%