

```

#include <Wire.h>
#include <LiquidCrystal_I2C.h>

LiquidCrystal_I2C lcd(0x3F, 2, 1, 0, 4, 5, 6, 7, 3, POSITIVE);

const int AOUTpin=0;//the AOUT pin of the CO sensor
goes into analog pin A0 of the arduino
const int DOUTpin=8;//the DOUT pin of the CO sensor
goes into digital pin D8 of the arduino
const int ledPin=13;//the anode of the LED connects
to digital pin D13 of the arduino

int limit;
int value;

void setup() {
  lcd.begin(20,4);
  lcd.setCursor (1,0);
  lcd.print("DETEKSI GAS KARBON MONOKSIDA");
  lcd.setCursor (1,1);
  lcd.print("DALAM RUANGAN");
  delay(2000);
  lcd.clear();
  lcd.setCursor(1,0);
  lcd.print ("BY DINDA SETIAWAN");
  lcd.setCursor (1,1);
  lcd.print("STMIK ATMALUHUR");
  delay (3000);
  lcd.clear();
  lcd.setCursor (1,2);
  lcd.print ("Reading Sensor.....");
  delay (8000);
  lcd.clear();
  Serial.begin(9600);//sets the baud rate
  pinMode(DOUTpin, INPUT);//sets the pin as an input to the arduino
  pinMode(ledPin, OUTPUT);//sets the pin as an output of the arduino
}

void loop()
{
  value= analogRead(AOUTpin);//reads the analaog
value from the CO sensor's AOUT pin
  limit= digitalRead(DOUTpin);//reads the digital
value from the CO sensor's DOUT pin
  lcd.setCursor (1,0);
  lcd.print("Kadar Monoksida:");
  lcd.print(value);//prints the CO value
  Serial.print("CO value: ");
  Serial.println(value);//prints the CO value
  Serial.print("Limit: ");
  Serial.println(limit);//prints the limit reached as either LOW or HIGH
(above or underneath)
  delay(100);
  if (limit == HIGH){
    digitalWrite(ledPin, HIGH);//if limit has been reached, LED turns on
as status indicator
  }
  else{

```

```
    digitalWrite(ledPin, LOW); //if threshold not reached, LED remains off
}

if (value > 200)
{
    digitalWrite (ledPin, LOW);
}
else
{
    digitalWrite (ledPin, HIGH);
}

}
```



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KADAR GAS KARBONMONOKSIDA PADA
RUANGAN BERBASIS MIKROKONTROLER



No	Tanggal	Uraian	Paraf Pembimbing
1	10-4-17	Bab I	
2	14-4-17	Bab I	
3	22-4-17	Bab I, Bab II	
4	20-4-17	Bab II	
5	5-5-17	Bab II	
6	10-5-17	Bab III	
7	21-5-17	Bab IV	
8	01-6-17	Bab IV, Bab V, Demo alat	
9	13-6-17	Demo alat	
10	24-6-17	Demo alat	
11	5-7-17	Demo alat	
12	8-7-17	Demo alat	

Mahasiswa diatas telah melakukan bimbingan dengan jumlah materi yang telah mencukupi untuk disidangkan.

Dosen Pembimbing

(Ade Sepriyanti, M. Kom, M.S)

Pangkalpinang, 10 Juli 2017

Mahasiswa

(Dinda setiawan)