

```
#include <LiquidCrystal.h>
```

```
LiquidCrystal lcd(7, 6, 5, 4, 3, 2);
```

```
#include <SoftwareSerial.h>
```

```
SoftwareSerial mySerial(9, 10);
```

```
int gasValue = A0; // smoke / gas sensor connected with analog pin A1 of the arduino / mega.
```

```
int data = 0;
```

```
void setup()
```

```
{
```

```
  randomSeed(analogRead(0));
```

```
  mySerial.begin(9600); // Setting the baud rate of GSM Module
```

```
  Serial.begin(9600); // Setting the baud rate of Serial Monitor (Arduino)
```

```
  lcd.begin(16,2);
```

```
  pinMode(gasValue, INPUT);
```

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

```
  lcd.setCursor(0,1);
```

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

```
  delay(3000);
```

```
  lcd.clear();
```

```
}
```

```
void loop()
```

```
{
```

```
data = analogRead(gasValue);
```

```
Serial.print("Gas Level: ");
```

```
Serial.println(data);
```

```
lcd.print ("Gas Scan is ON");
```

```
lcd.setCursor(0,1);
```

```
lcd.print("Gas Level: ");
```

```
lcd.print(data);
```

```
delay(1000);
```

```
if ( data > 500) //
```

```
{
```

```
SendMessage();
```

```
Serial.print("Gas detect alarm");
```

```
lcd.clear();
```

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

```
lcd.print("Gas Level Exceed");
```

```
lcd.setCursor(0,1);
```

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

```
delay(1000);
```

```
}
```

```
else
```

```
{
```

```
Serial.print("Gas Level Low");
```

```
lcd.clear();
```

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

```
lcd.print("Gas Level Normal");
```

```
delay(1000);
```

```
}
```

```
lcd.clear();
```

```
}
```

```
void SendMessage()
```

```
{
```

```
Serial.println("I am in send");
```

```
mySerial.println("AT+CMGF=1"); //Sets the GSM Module in Text Mode
```

```
delay(1000); // Delay of 1000 milli seconds or 1 second
```

```
mySerial.println("AT+CMGS=\"+91900xxxxxxx\"\\r"); // Replace x with mobile number
```

```
delay(1000);
```

```
mySerial.println("Excess Gas Detected. Open Windows");// The SMS text you want to send
```

```
delay(100);
```

```
mySerial.println((char)26);// ASCII code of CTRL+Z
```

```
delay(1000);
```

```
}
```