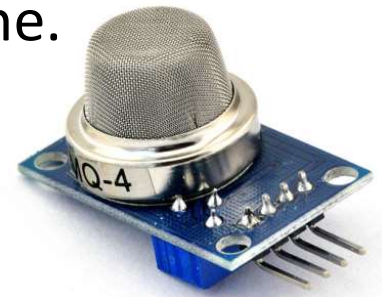


# Interfacing of MQ-4 [Methane Sensor]



# MQ-4 [Methane Sensor]

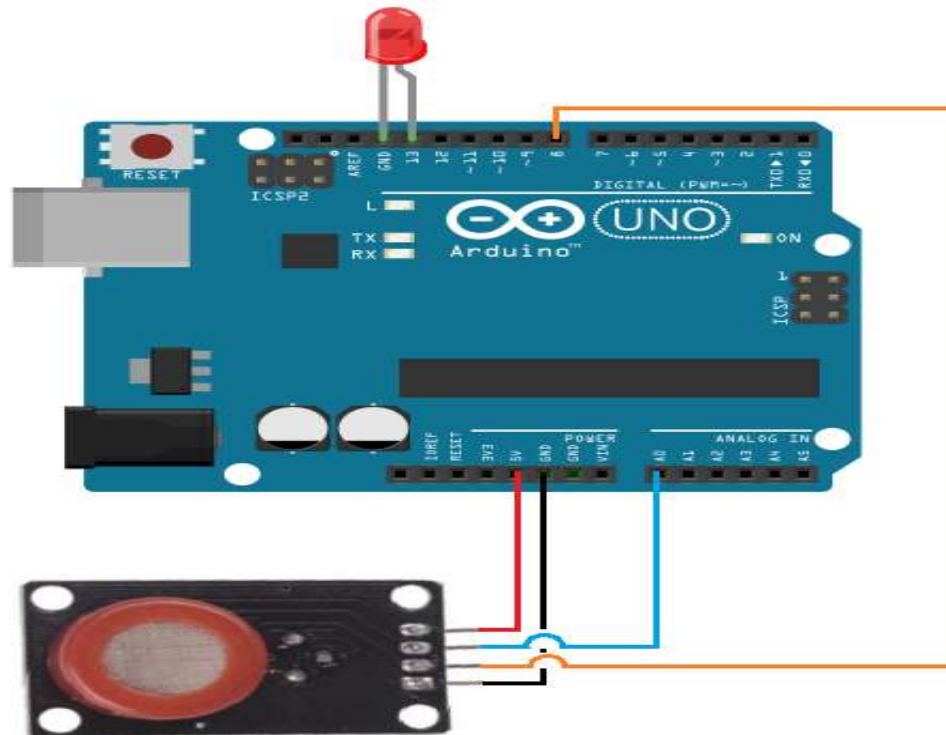
- The MQ4 is used in gas leakage detecting equipment in consumer and industry markets, this sensor is suitable for detecting CH<sub>4</sub>, Natural gas, LNG, avoid exposure to alcohol, cooking fumes, and cigarette smoke. The sensitivity can be adjusted by the potentiometer.
- As a natural gas sensor, the MQ-4 Natural Gas Sensor is a fast and reliable sensor with a high sensitivity to natural gas and methane, also good sensitivity to propane and butane.



# Components Required

- Arduino UNO
- MQ-4 Methane Sensor
- LED
- Jumper Wires

# Connection Diagram



# Connections

- Connect **Vcc** of MQ-4 with +5 V of Arduino UNO.
- Connect **DOUT** of MQ-4 with pin 8 of Arduino UNO.
- Connect **AOUT** of MQ-4 with A0 of Arduino UNO.
- Connect **GND** of MQ-4 with GND of Arduino UNO.
- Connect positive pin of LED with pin 13 of Arduino UNO and LED's negative with GND of Arduino UNO.



1 = GND  
2 = DOUT  
3 = AOUT  
4 = VCC

(bottom view)

## After uploading done

- Open Serial Window at the upper-right hand corner of the Arduino IDE, when no gas is detected, the sensor will export 1(high voltage) to the serial monitor and the LED will be turned on.
- When gas generated by the lighter nears the sensor, it will export 0 (low voltage) and the LED will turn off.

**Project Link :**