

## ARD 2 **Arduino Compatibles**

Controllers, Shields, Modules & Sensors

### LPG, Propane, Methane and Hydrogen Gas Sensor    **ARD2-3042**

- **Suitable for detecting LPG, i-butane, propane, methane, alcohol, hydrogen & smoke**
- **Wide detecting scope**
- **Fast response & high sensitivity**
- **Stable & long life**
- **Simple drive circuit**

#### Description

This gas sensor is highly sensitive to LPG, propane, methane & hydrogen. It is also sensitive to other combustable gases and smoke.

The resistance of the MQ-2 gas sensor is different for various kinds and concentrations of gases. When using this sensor it is crucial to calibrate the detector. The recommended calibration setting is 1000ppm LPG or 1000ppm iso-butane concentration in the air with a load resistance ( $R_L$ ) of about 20K $\Omega$  (5K $\Omega$  to 47K $\Omega$ ). The alarm point for the gas detector should be determined after considering the temperature and humidity conditions.

**Note:** This sensor becomes very hot after a while; exercise caution when handling the sensor.

#### Specifications

<b>Operating Voltage</b>	5V
<b>Operating Temperature</b>	-20--+50°C
<b>Storage Temperature</b>	-20--+70°C
<b>Relative Humidity</b>	<95% RH
<b>Detectable Concentration</b>	300-10000ppm
<b>Output</b>	Analog
<b>Dimensions</b>	42.9mm x 21.5mm x 17.7mm (LxWxD)
<b>Weight</b>	9g

#### Pinout

Module	Arduino	Function
VCC	5V	Power
GND	GND	Ground Connection
OUT	A0	Analog Output



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**Test Code (Analog Output)**

```
const int gasPin = A0; //GAS sensor output pin to Arduino analog A0 pin

void setup()
{
    Serial.begin(9600); //Initialize serial port - 9600 bps
}

void loop()
{
    Serial.println(analogRead(gasPin));
    delay(1000); // Print value every 1 sec.
}
```