

DFR0339 Bluno Beetle

Introduction Specification **Board Overview** Tutorial More Documents

COMMUNITY NEW

## SKU:SEN0568

**FORUM** 



**BLOG** 

### Fermion: MEMS H2S sensor employs state-of-the-art microelectromechanical system (MEMS) technology, endowing the

consumption (<20mA), minimal heat generation, short preheating time, and swift response recovery. The sensor can qualitatively measure the concentration of hydrogen sulfide gas, and is suitable for hydrogen sulfide detection in toilets, sewers, garbage stations and other places. The MEMS series currently encompasses 11 different types of gas sensors (HCHO, CO, CH4, VOC, NH3, H2S, EtOH, Smoke, Odor, H2, NO2), which can be combined as per specific requirements. Please note: This sensor is capable of qualitative measurements only. For quantitative measurements, kindly consider purchasing the Factory-calibrated Gas Sensor. Precautions for use Kindly remove the protective film before usage.

sensor with compact dimensions (13x13x2.5mm), low power

**EDUCATION** 

## where volatile silicon compounds are present).

SKU

Gas

SEN0563

HCHO

- · Avoid exposure to high concentrations of corrosive gases (such
- as H2S, SOX, Cl2, HCl, etc.). · Prevent contamination from alkalis, alkali metal salts, and halogens.

• To prevent exposure to volatile silicon compounds vapors (such

as silicone adhesive, hair gel, silicone rubber, or other locations

- Refrain from prolonged exposure to extreme environments (such as high temperatures, high humidity, high pollution).
- Please refrain from employing this module in systems that involve personal safety concerns.

· Avoid contact with water, condensation, and freezing.

• Minimize excessive vibration, impact, and dropping.

SEN0564

CO

- For extended periods of non-usage, it is advisable to preheat the module for at least 24 hours.
- Other Mems Gas Sensors

SEN0565

CH4

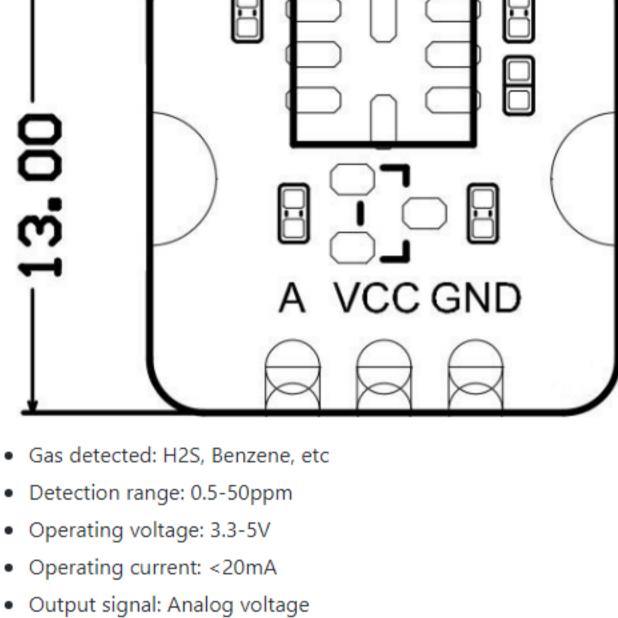
SEN0566

VOC

SEN0

NH3

Туре	НСНО	СО		CH4		VOC			NH3
SKU		SEN0569		SEN0570		SEN0571		SEN0572	
Gas Type		EtOH		Smoke		Odor		H2	
## Features									
- Compact size, measuring only 13*13*2.5mm									
- Low power consumption, minimal heat generation, operating current <20mA									
- High sensitive and ra- respon- recove	pid ise								
- Adva MEMS techno									
Specification									



13.00

• Sensitivity: R0(in air)/Rs(in 50ppm H2S) ≥ 3 Operating temperature: -10-50°C

• Load resistance (RL) : 4.7KΩ

- Operating humidity: 15-90%RH (non-condensing) • Lifespan: ≥5 years (in air)
- **Board Overview**

• Dimension: 13×13 x 2.5mm/0.0.51×0.51x0.1"

Description

Analog Voltage Output Α VCC

Label

GND

Num

2

3

Tutorial
NOTE: The module needs to be warmed up for more than 5 minutes when powered on for the first time. It is recommended to warm up for more than 24 hours if it has not been used for a long time.
Requirements

o DFRduino UNO R3 (or similar) x 1

MEMS Gas Sensor x 1

Jumper wires

# Arduino IDE **Connection Diagram**

Software

Hardware

# VCC GND Sample Code 1.Read the sensor raw value int sensorPin = A0; int sensorValue = 0;

```
void setup()
    Serial.begin(9600); //Set serial baud rate to 9600 bps
  void loop()
    sensorValue = analogRead(sensorPin);
    Serial.println(sensorValue);
    delay(100);
Expected Results
Open the serial port monitor and get the original value of the
```

sensor. More Documents

# Schematics & Dimension

· Characteristic Parameter

Get CCS811 Air Quality Sensor from DFRobot Store or

Turn to the Top

Downloaded from Arrow.com

**DFRobot Distributor.**