

DFR0329 Bluno M3

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

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

microelectromechanical system (MEMS) technology, endowing the

EDUCATION

as silicone adhesive, hair gel, silicone rubber, or other locations where volatile silicon compounds are present).

Other Mems Gas Sensors

HCHO

Gas

- · 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

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

· Avoid contact with water, condensation, and freezing.

· Minimize excessive vibration, impact, and dropping.

- involve personal safety concerns. • For extended periods of non-usage, it is advisable to preheat
- the module for at least 24 hours.

CO

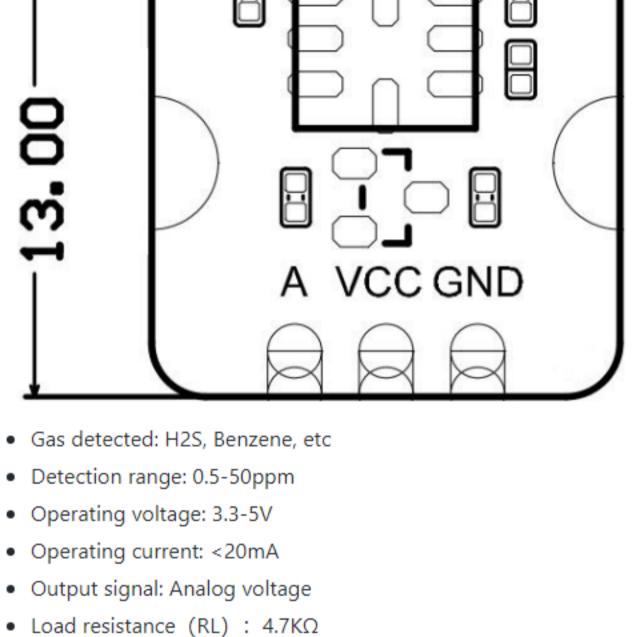
SKU SEN0563 SEN0564 SEN0565 SEN0566 SEN0

CH4

VOC

NH3

Туре	НСНО		CO		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	vity pid ise								
- Adva MEMS techno									
Speci	ficatio	n							



13.00

- Sensitivity: R0(in air)/Rs(in 50ppm H2S) ≥ 3 Operating temperature: -10-50°C
- Operating humidity: 15-90%RH (non-condensing)
- Lifespan: ≥5 years (in air) • Dimension: 13×13 x 2.5mm/0.0.51×0.51x0.1"
- **Board Overview** Description Label Num

Analog Voltage Output

2 VCC 3 GND

Α

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

o 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 **DFRobot Distributor.**

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