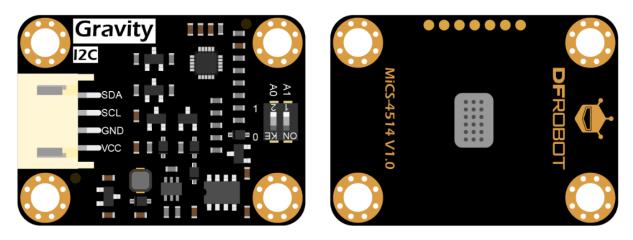
# Gravity: MEMS Gas Sensor (CO, Alcohol, NO2 & NH3) - I2C - MiCS-4514

### INTRODUCTION

This is a 3.3/5V compatible MEMS gas concentration sensor from DFRobot.

This sensor supports the detection of various gas concentrations like CO, C2H5OH (Alcohol), H2, NO2, NH3, and integrates various gas concentration conversion formulas in the code to facilitate the testing and use of sensors.

With I2C output and 3.3~5.5V wide voltage input, it is compatible with Arduino, ESP32, Raspberry Pi and other mainstream controllers.



**Board Overview** 

#### **FEATURES**

Support detection of a variety of harmful gas Integrate the calculation formulas of various gas concentration Low power consumption I2C digital output Compatible with the 3.3~5.5V master controller

#### **APPLICATIONS**

Gas leak detection Gas safety equipment Air environment detection

#### SPECIFICATION

Detection of Physical Quantities: gas concentration of CO, C2H5OH(Alcohol), H2, NO2, NH3, CH4 Operating Voltage: 3.3~5.5V DC Power Dissipation: 0.45W(5V) Output Signal: I2C (0~3V) Measuring Range: 1 – 1000ppm (Carbon monoxide CO) 0.05 – 10ppm (Nitrogen dioxide NO2) 10 – 500ppm (Ethanol C2H5OH) 1 – 1000ppm (Hydrogen H2) 1 – 500ppm (Hydrogen H2) 1 – 500ppm (Methane CH4) Working Temperature: -30~85°C Working Humidity: 5~95% RH(No condensation) Storage Temperature: -40~85°C Lifespan: >2 years (in the air) Circuit Board Size: 27mm\* 37mm Mounting Hole Size: inner diameter 3.1mm/ outer diameter 6mm

## SHIPPING LIST

Gravity: MEMS CO, Alcohol, NO2 & NH3 Gas Sensor x1 Gravity-4pin I2C Cable x1

