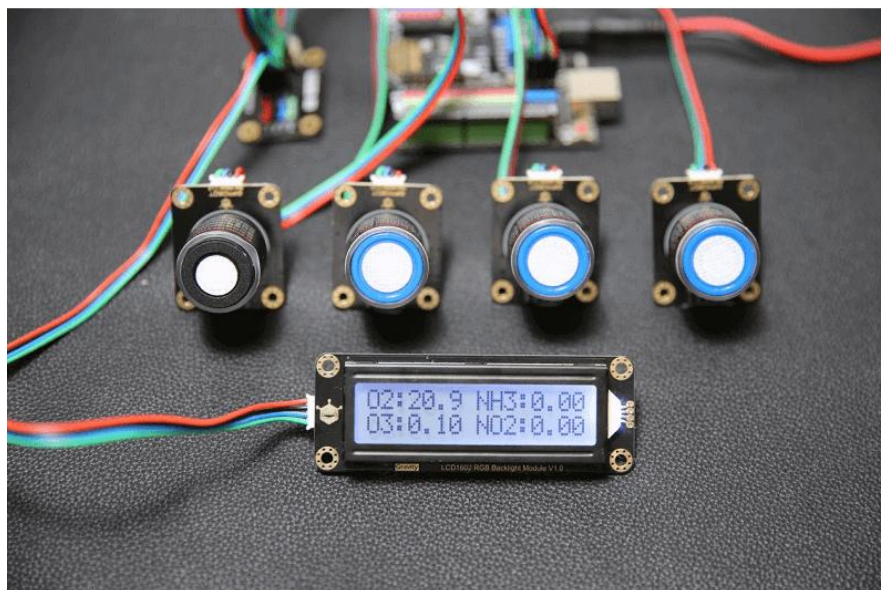


Introduction

This is a sensor that detects ammonia concentration and supports three output modes: analog, I2C, and UART. **The probe has been calibrated at the factory, which can quickly and accurately measure the concentration of ammonia in the environment.** Can be widely used in the detection of ammonia in industrial and environmental protection fields.

The probe adopts the electrochemical principle, has the characteristics of strong anti-interference ability, high stability, high sensitivity, etc., and the service life is as long as two years. The sensor has 32 modifiable I2C addresses, an integrated temperature compensation algorithm, and a threshold alarm function, It has good compatibility with mainstream main control devices such as [Arduino](#), [ESP32](#), and [Raspberry Pi](#). The easy-to-use Gravity interface, coupled with our sample code, can quickly build an ammonia concentration detector.

DFRobot has introduced 12 gas detection sensors in this series, [CO](#), [O2](#), [NH3](#), [H2S](#), [NO2](#), [HCL](#), [H2](#), [PH3](#), [SO2](#), [O3](#), [CL2](#), [HF](#), which are used in exactly the same way and data format, so you can combine them according to your needs.



Features

- Strong anti-interference ability
- High stability
- High sensitivity

Applications

- Industrial ammonia detection
- Environmental protection device

Specification

- Detection Gas: Ammonia (NH₃)
- Detection range: 0~100ppm
- Working Voltage: 3.3~5.5V DC
- Working Current: <5mA
- Output Signal: I2C, UART (0~3V), analog voltage
- Working Temperature: -20~50°C
- Working Humidity: 15~90%RH (non-condensing)
- Storage Temperature: -20~50°C
- Storage Humidity: 15~90%RH (non-condensing)
- Lifespan: >2 years (in the air)
- Adapter Plate Size: 37*32mm
- Compatibility: Arduino, ESP32, Raspberry pi

Shipping List

- Gravity: NH3 Signal Conversion Board x1
- NH3 sensor probe x1
- Gravity - 4pin Cable x1