Gravity: NH3 Sensor (Calibrated) - I2C & UART



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 antiinterference 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.

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