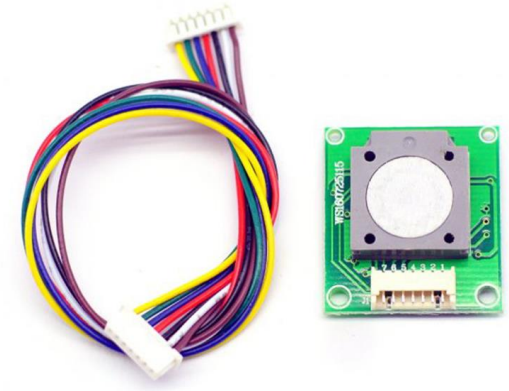
Formaldehyde Sensor Module

Model: ZE08-CH2O



Description:

ZE08-CH2O is a general-purpose and miniaturization electrochemical formaldehyde detection module. It utilizes electrochemical principle to detect CH2O in air which makes the module with high selectivity and stability. It is built-in temperature sensor to make temperature compensation. It has the digital output and analog voltage output at the same time. It is a combination of mature electrochemical detection principle and sophisticated circuit design.

Features:

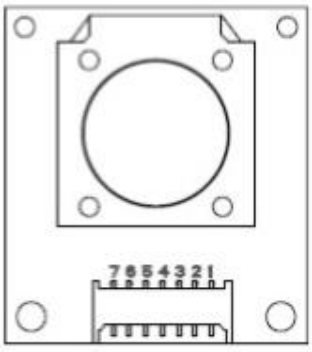
- High sensitivity &resolution, Low power consumption, Long life
- UART/Analog Voltage/PWM wave output
- Good stability, excellent ability of Anti-interference
- Temperature compensation , Excellent Linear output

Specifications:

- Target Gas: CH2O (Formaldehyde)
- Interference Gas: Alcohol, Carbon monoxide (CO), etc.
- Output Data: DAC (0.4~2V standard voltage output)
  UART output (3V Electrical Level)
- Operating Voltage: 3.7V~9V (With voltage reverse connection protection)
- Warm up (Preheat) time: ≤3 minutes
- Response time: ≤60s
- Recovery time: ≤60s
- Detection Range: 0~5ppm
- Resolution: ≤0.01ppm
- Operating Temperature: 0~50°C
- Operating Humidity: 15% RH ~ 90% RH (No condensation)
- Storage Temperature: 0~50°C
- Working life: 2 years (in air)

Pin Definition:

Pin name	Description
Pin4	Vin (voltage input 3. 7V~9V)
Pin3	GND
Pin2	DAC (0.4~2V, corresponding to 0-full scale)
Pin7	PWM
Pin1	HD (zero, not open)
Pin5	UART (RXD) 0~3.3V data input
Pin6	UART (TXD) 0~3.3V data output



Protocol:

Baud Rate	9600
Data Rate	8 byte
Capture position	1 byte
Calibrate byte	No

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