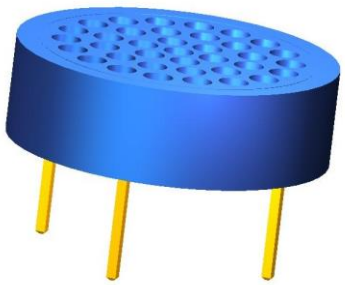
Brief Introduction

SEM-HCHO-10 economical HCHO sensor with long service life, works on the principle of electrochemical sensing technology with solid electrolyte, can realize precise detection of HCHO. The sensor is free from electrolyte leakage and environmental changes.



Application

Smart home

Portable devices

Wearable devices

Air conditioners

Air cleaners

... ...

Key Features

*Free from environmental changes

*Free from electrolyte leakage

*High Precision

*Long Life

*High Stability

*Small size

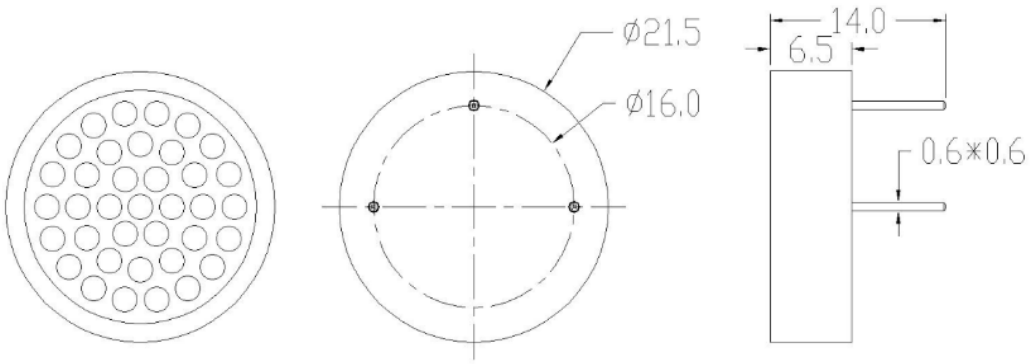
Technical Specification

Item	Technical Specification
Principle	3-electrodes electrochemical
Range	0-5ppm
Maximum Overload	10ppm
Sensitivity	1.2±0.3(uA/ppm)
Response Time (T90)	＜70seconds
Baseline Offset（20℃）	-0.03ppm～0.03ppm
Zero Drift（-20℃-40℃）	＜0.03ppm
Repeatability	2% of signal
Output Signal	linear
Long Term Output Drift	＜1% signal/month
Recommended Load Resistor	10Ω
Bias Potential	not required
Working Temperature Range	-40℃～60℃
Working Pressure Range	90 ～ 110 kPa
Working Humidity Range	10％－90％RH (not condensing)
Storage Temperature Range	0～20℃
Storage Life	6months
Expected Operating Life	3 years in air
Warranty	12months
Weight	11g

Cross-Sensitivity Data

Gas	Concentration Used（ppm）	7HCHO-10（ppm HCHO）
CO	500	100

Dimensions



Notes：1. All dimensions in mm

2. All tolerances ±0.15mm unless otherwise stated
3. All performance data is based on condition at 20℃, 50%RH & 1013mbar. For sensor performance data under other conditions, please contact us.
4. Connection should be made via PCB sockets only. Soldering to the pins will seriously damage the sensor

Precautions

- The sensor should be prevented from organic solvents or corrosive gases
- The sensor should not be stored in dusty, dirty areas and anaerobic environment
- The sensor must not be exposed to very high concentration of the analyte permanantly
- Excessive shock or vibration should be prevented to avoid internal damage
- The pins should not be broken or bent
- The working and reference electrodes should be in short-circuit condition in storage

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