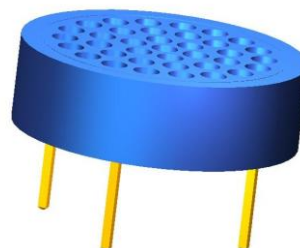


Brief Introduction

SEM-CO-500 economical CO sensor with long service life, works on the principle of electrochemical sensing technology with solid electrolyte, can realize precise detection of CO. The sensor is free from electrolyte leakage and environmental changes.



Application

Smart home
 Portable devices
 Wearable devices
 Air conditioners
 Air cleaners

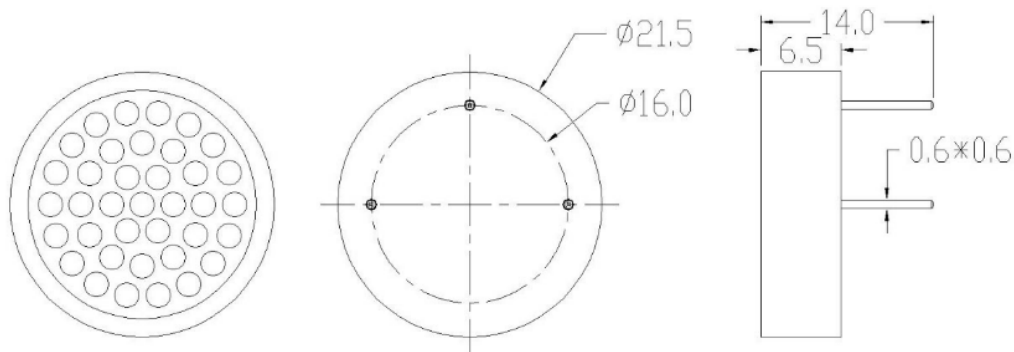
Technical Specification

Item	Technical Specification
Principle	3-electrodes electrochemistry
Range	0-500ppm
Maximum Overload	1000ppm
Sensitivity	0.12±0.2(uA/ppm)
Response Time (T90)	<30seconds
Baseline Offset (20°C)	-10~10ppm
Zero Drift (-20°C-40°C)	<10ppm
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°C~60°C
Working Pressure Range	90 ~ 110 kPa
Working Humidity Range	10%—90% (not condensing)
Storage Temperature Range	0~20°C
Expected Operating Life	3 years in air
Warranty	12months
Weight	11g

Key Features

- *Free from environmental changes
- *Free from electrolyte leakage
- *High Precision
- *Long Life
- *High Stability
- *Small size

Dimensions



Notes: 1 All dimensions in mm

2 All tolerances ± 0.15 mm unless otherwise stated

3 All performance data is based on condition at 20°C, 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 permanently
- 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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