



**CUBIC**



**ECO-5011A-001**

# **Electrochemical CO Sensor Module**

## Discription

Cubic ECO-5011A-001 is a state-of-the-art carbon monoxide (CO) sensor that leverages advanced electrochemical technology to provide precise and reliable CO detection. With an impressive measurement range of 0 to 100ppm and outstanding accuracy, it ensures the accurate detection of CO level of safety for residential gas appliances.

Designed for high temperature condition of gas furnaces and boilers, Cubic ECO-5011A-001 operates efficiently in a wide temperature range from 20°C to 70°C, ensure great accuracy at whole temperature and measurement range and can be safely stored between -20°C and 70°C. Additionally, it could achieve a long lifespan of up to 10 years, significantly reducing the need for frequent replacements and ensuring long-term application.

Cubic ECO-5011A-001 also features minimal zero drift, maintaining stability and reliability throughout its lifespan. Also, it has smart and digital self-check function. Moreover, Cubic electrochemical CO sensor is certified by UL2075 safety standards, making it a dependable choice for CO detection.

## Features

- High temperature up to 70°C durable
- Ensure great accuracy at whole temperature and measurement range
- Temperature compensation design and value output
- Long lifetime over 10 years
- Factory calibrated, no user calibration required
- Smart and digital self-check function

## Applications

- Gas-fired central furnace
- Gas boiler
- Gas wall furnace
- Gas floor furnace

## Specifications

Principle	Electrochemical technology
Measurement Gas	CO
Measurement Range	0~100ppm
Accuracy	±5ppm@0~25ppm; ±10ppm@26~100ppm
Resolution	0.5ppm
Response Time	T <sub>90</sub> <60s
Output	UART_TTL (3.3V)
Working Condition	20~70°C, 5~99%RH (non-condensing)
Storage Condition	-20~70°C, 5~99%RH (non-condensing)
Power Supply	4.5~5.5V DC
Working Current	≤15mA (25°C)
Lifetime	>10 years