EURsense

AG-4-CO-M5042

Features

- ✓ High repeatability
- ✓ High selectivity to carbon monoxide
- ✓ Linear voltage output
- ✓ >10-year lifespan
- ✓ No electrolyte leakage risk
- ✓ Environmentally friendly
- ✓ pre-calibrated before leaving the factory

Product Description

The AG-4-CO-M5042 is an embedded type module equipped with the Figaro's carbon monoxide gas sensor TGS5042, for accurately detecting carbon monoxide (CO) gas concentrations in various environments. The module has been pre-calibrated before leaving the factory and has good stability and selectivity. It allows users to easily and quickly integrate the module into various systems.
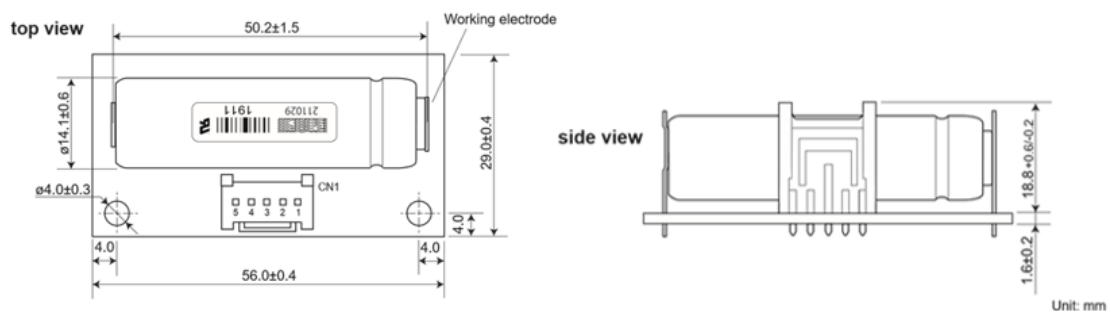
Technical Specification

Item	Specification
Model Number	AG-4-CO-M5042
Target Gases	CO
Sensing Principle	Electrochemical
Detection Range	0 ~ 800ppm
Current consumption	≤ 5mA
Input voltage	2.5~5.3V DC
Output V_{CONC}	0 ~ 2V DC
Normal operation	$V_{CONC} = 2 - [CO\ conc(ppm)/400]$
V_{CONC} in 0 ppm CO	2.0±0.1V
V_{CONC} in 400 ppm CO	1.0±0.1V
Warm up time	≤ 30 sec
Operating temperature	-5˚C ~ +55˚C
Operating humidity	5 ~ 95%RH
Storage conditions	-5˚C ~ +55˚C/5 ~ 95%RH
Size	L*W*H=56mm*29mm*22mm
Expected Life	≥ 10 years

Application

- Residential and commercial CO detectors
- CO monitors for industrial applications
- Ventilation control for indoor parking garages
- Fire detection

Product Appearance and Dimensions

Pin Configuration

Pin Number	Name	Functional Description
1	GND	Common ground
2	Test	Self-diagnosis control input *1
3	Vconc	Concentration output voltge
4	-	(not connected)
5	Vin	Input voltage

Note:

After being powered-on, the module needs approximate 30s to warm up. Once the process is complete, the module enters into normal monitoring state.