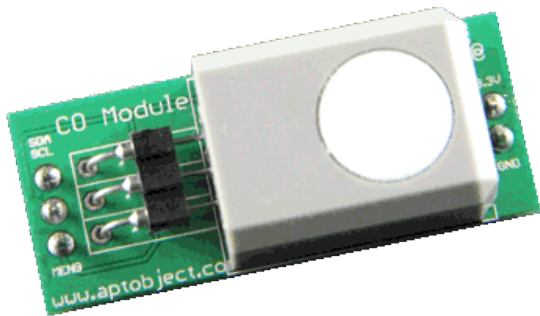


AptBee Carbon Monoxide Sensor Module



Specification

Model	MOD_CO_1402
Target Gas	Carbon Monoxide
Operating Principle	Electrochemical
Measurement range	0 to 1,000ppm
Accuracy	± 5%
Response time (90%)	< 30 seconds
Temperature drift(zero)	< 10ppm (-20 to 50°C)
Long term output drift	< 5% per year
Expected lifetime	> 5 years
Operating temperature	-20 to 50°C
Humidity range(constant)	15 to 95% RH
Storage temperature	0 to +20°C
Power Supply	2.7 ~ 3.6VDC
Power consumption	0.2W (Max)
Serial communication	I ² C
Dimensions (mm)	37(L) 15.5 (W) 9(H)

Features

- Small size
- High accuracy
- Low power consumption
- Wide measurement range
- Long life of sensor component

Applications

- Concentration of carbon monoxide (CO) detection
- Indoor air quality (IAQ) monitoring

Description

This module uses a low power, high accuracy and long life electrochemical sensing component. Through an analog/digital conversion circuit converts input per 1ppm about 40nA signal to digital signal output. The control and communication interface is I²C-bus, which is easy to integrate with a micro controller.

This module can be used to build a wired or wireless sensing device in application systems like indoor air quality monitoring, wireless sensor network or safety and security surveillance system to detect carbon monoxide concentration near the installation location.

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