

*AI-Powered*

# Smart City Ecosystem



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## Carbon Monoxide (CO) Sensor

### ZS-CO01

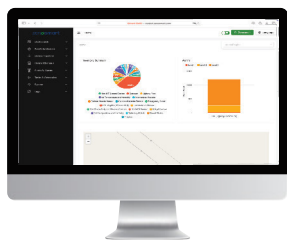
ZenoSmart LoRaWAN CO Sensor Module detects carbon monoxide levels and transmits data wirelessly to measure indoor air quality. It operates with the LoRaWAN™ Class A protocol and can be powered by battery or electricity.



ZenoSmart CO Sensor transmits data via a LoRaWAN Gateway using a 3.6V 19Ah battery. The data can be monitored from an IoT server, and the transmission frequency can be adjusted. With an LTE or Wi-Fi LoRaWAN Gateway, you can monitor air quality over wide areas at low cost. The sensor monitors carbon monoxide in indoor environments, heating systems, and industrial processes, helping to prevent dangerous situations.

<b>Communication Range</b>	2500m <sup>1</sup>
<b>Sensor Feature</b>	CO Measurement Range: 0–2000 ppm
<b>Power</b>	3.6V 19000mAh
<b>Frequencies</b>	EU433 – KR920 – US915 / EU868 – AS923 – AU915
<b>Connections</b>	LoRaWAN <sup>1</sup>    <sup>2</sup>
<b>Monitoring</b>	Web and Mobile-Based Remote Monitoring
<b>Dimensions</b>	(H×W×D): 154 × 67 × 60 mm

1. The range may vary depending on the gateway antenna gain and geographic conditions.
2. Bluetooth is offered as an optional feature based on preference.



You can manage your CO monitoring either through our web management platform at [zenosmart.com](https://zenosmart.com) or via your own servers

## Installation

When the CO sensor's battery is inserted, it connects to the nearest LoRaWAN gateway and starts sending data to the IoT server. Operating temperature should be between -20°C and 60°C

## Usage

The sensor offers IP67 waterproof protection and a battery life of up to 10 years depending on usage. The LoRaWAN wireless range can reach up to 2.5 km depending on elevation (varies with antenna power and geographic conditions)