



WLRC-IDCO



Wireless Carbon Monoxide Detector (CO)

WLRC-IDCO is an Investigative Device used for monitoring presences of carbon monoxide at any inclosed area. This device can detect carbon monoxide and send data to our cloud platform for investigative purpose and notification.

Features:

- Super Long Range Signal Penetration
- 3 years plus Battery Life*
- Easy Installation
- Frequency Hopping Spread Spectrum (FHSS)
- Improved interference immunity
- Encrypt-RF™ Security (Diffie-Hellman Key Exchange + AES-128 CBC for sensor data messages)
- Over-the-air updates
- Interactive WatchNET IoT platform with dashboard, search and notification settings



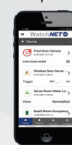
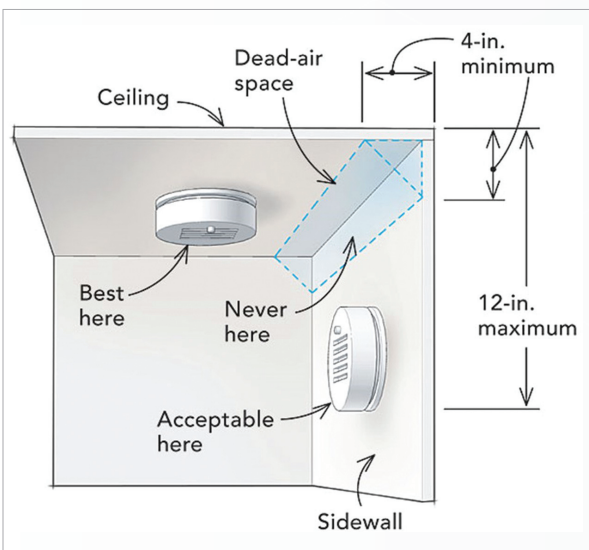
Applications:

- Carbon Monoxide Detection device for Commercial building, offices, stair walls, server rooms, school and hotel applications



1. WLRC-IDCO device is not to substitute for smoke detection mandated by local and government regulations/building code
2. WLRC-IDCO is to be used as investigative device for information purposes ONLY
3. WLRC-IDCO is not a life safety device

Schematic Diagram:



Technical Specifications

Electrical	
Input power	2xAAA alkaline battery
Standby Current	18uA/3VDC
Battery Life time	3 years (25°C/77°F, heartbeat:60mins, tx power=20dBm, LoRaSF=10)
Average Operating Current	70uA/3VDC
Current While alarming	20mA/3VDC
Alarm Sound Intensity	85dBm at 3m
CO Detection Concentration Range	0 ~ 1000ppm
Frequency	
TX Power	19dBm±1dBm
Rx Sensitivity	-136dBm (LoRa, Spreading Factor=12, Bit Rate=293bps) -121dBm (FSK, Frequency deviation=5kHz, Bit Rate=1.2kbps)
Antenna Type	Built-in antenna
Communication Range	Up to 400m/0,25miles plus, the actual transmission distance depends on the environment*
Data Transfer Rate	0.3kbps~50kbps
Spread Technique	LoRa/FSK
Available Frequency	EU863-870, US902-928, Configured before shipment
Physical	
Dimension	D:106mm x H:36mm / 4.17" x 1.42"
Protection Class	Main Part IP20
Environment Temperature Range	-20°C ~ 55°C / -4°F ~ 131°F
Environment Humidity Range	<90%RH (No condensation)
Storage Temperature	-40°C ~ 85°C / -40°F ~ 185°F

* Actual signal range may vary depending on the environment.

* 3 year battery life

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