

Applications

- Building Air Quality
- HVAC Systems
- Count Indoor Human Occupancy
- Office Buildings
- Schools
- Horticulture and Greenhouses

Key Features

- Transmits on your existing Wi-Fi network
- CO2 module is self-calibrating, zero maintenance, and features:
 - Range of 0-2000 PPM
 - Accuracy up to 30 PPM
 - 15 year CO2 sensor life expectancy
- A sensor designed with security in mind:
 - Only allows one-way communications
 - Supports WPA/WPA2-PSK encryption
 - Encrypted data storage for network and configuration information
- Supports DHCP or static IPv4 addresses and static IPv6 addresses
- Configurable transmission rate



Robust, Responsive, Cost Effective Wireless Monitoring

This versatile sensor leverages an existing Wi-Fi network to monitor CO2, temperature, & humidity in one durable, compact package. Measure air circulation and track occupancy for the comfort and safety of a building's inhabitants.

What Sets RLE's WIFI-CO2 Apart?

- **Track changes in air circulation** to monitor air handling equipment and quickly detect impeded airflow, stalled fans, leaks, blockages, or clogged filters.
- **Industry-leading battery life.** Sensor batteries last up to five years communicating under normal room temperatures and at the default five minute transmission rate.
- **Compatible with RLE's WiNG-MGR.** Populates seamlessly into the WiNG-MGR's user interface.
- **BMS integration.** Transmits CO2, temperature, and humidity data to a BMS using an existing wireless network.
- **Wireless and battery powered.** No wires for power; no wires for data transmission.

WIFI-CO2 • Compatible with RLE's WiNG-MGR and any BMS system capable of receiving a UDP packet.

Product Codes	
WIFI-CO2	Carbon dioxide, temperature, and humidity sensor; Wi-Fi wireless transmitter; requires USB-A to Micro B cable for configuration
MICRO-USB-3FT	USB-A to Micro B Cable; 3ft (1m); Black; Use with WIFI sensors for sensor configuration

Technical Specifications	
Power	7.2V (two 3.6V AA lithium batteries)
Battery Life IPv4 IPv6	Battery life varies based on Wi-Fi signal strength and access point performance Up to 5 years at 5 minute transmission intervals; up to 2 years at 2 minute transmission intervals Up to 5 years at 15 minute transmission intervals
Shelf Life	10 years in quiescent mode with battery installed
Connectivity Wi-Fi IP	2.4 Ghz 802.11b/g/n, supports WEP, WPA (TKIP) or WPA2 (AES) encryption IPv4 static or DHCP; IPv6 static
Transmission Interval	1-30 minutes (configurable)
CO2 Sensor Range Accuracy	0-2000 PPM +/- 30 PPM plus 3% of reading
Temperature Sensor Accuracy At Room Temperature Accuracy Over Full Operating Range	Typical +/- 0.2°C; Max +/- 0.4°C; Room temperature is specified as 32°F to 140°F (0°C to 60°C) Typical +/- 0.6°C; Max +/- 1.0°C
Humidity Sensor Accuracy Over Standard Operating Range Accuracy Over Full Operating Range	Typical 2%; Max 3.5%; Standard operating range is specified as 20% to 80% RH (Non-condensing) Typical 3.5%; Max 6%
Operating Environment Temperature Humidity Altitude	-13°F to 185°F (-25°C - 85°C) 0% to 90% RH (Non-condensing) -200ft to 15,000ft (-70m to 4572m) max.
Mounting	Free standing, zip ties, screw and keyhole - spaced 2.5" (6.4cm), junction box - 2 screws spaced 3.28" (8.3cm)
Dimensions and Weight	4.4"L x 2.5"W x 1.5"H (11.2cmL x 6.4cmW x 3.8cmH), 0.2lb (0.10kg)
Certifications and Standards	EN-61326-1:2013, EN 301 489-1 V2.1.1, EN 301 489-17 V 3.1.1, Subpart B of Part 15 of FCC Rules for Class A digital devices, ANSI/UL 61010-1:2012, CAN/CSA-C22.2 No. 61010-1:2012 (3rd Edition), EN 61010-1:2010 (3rd Edition), and IEC 61010-1:2010. Contains FCC ID: Z64-CC3220MOD or Z64-CC3235MOD; Contains IC/ISED: 4511-CC3220MOD or 4511-CC3235MOD; Contains MIC: 201-170386 or 201-190033

