



WiNG-CO2

Wireless Carbon Dioxide, Temperature, and Humidity Sensor

Monitor. Integrate. Alert. Peace of Mind.

Applications

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

Key Features

- CO2 module is self-calibrating, zero maintenance, and features:
 - Range of 0-2000 PPM
 - Accuracy up to 30 PPM
 - Selectable CO2 measurement interval
 - 15 year CO2 sensor life expectancy
- Transmission range between manager and sensors:
 - Up to 100' through multiple walls
 - Up to 270' through one wall
 - Up to 600' direct line of sight
 - Add up to 1,000' direct line of sight with a WiNG-RXT
- Support 250 sensors on a single manager, up to 400 sensors with WiNG-RXT range extenders

WiNG systems communicate via a proprietary wireless protocol. WiNG sensors are only compatible with RLE WiNG products.



Robust, Responsive, Cost Effective Wireless Monitoring

Measure air circulation and track building occupancy for the comfort and safety of your building's occupants with this versatile sensor that monitors CO2, temperature, and humidity in one durable, compact package.

What Sets RLE's WiNG-CO2 Apart?

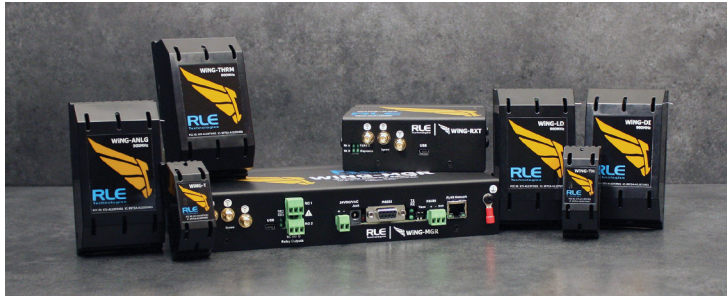
- **Track changes in air circulation** to monitor air handling equipment and quickly detect impeded airflow, stalled fans, leaks, blockages, or clogged filters.
- **Industry-leading battery life.** Sensor batteries last up to five years under normal room temperatures and at the default two minute CO2 measurement interval.
- **Up to 600' indoor, direct line of sight transmission range** supports flexible system and sensor deployment needs.
- **Packet transmission accuracy that exceeds 98%** and a polling rate of 10-20 seconds means the readings you see are accurate and relevant.
- **Available in 900MHZ and 868MHz configurations** for domestic U.S. and international installations.



WiNG-CO2 · Compatible with RLE's WiNG products

Product Codes

WiNG-CO2	WiNG carbon dioxide, temperature, and humidity sensor; 900MHz wireless transmitter
WiNG-CO2-868	WiNG carbon dioxide, temperature, and humidity sensor; 868MHz wireless transmitter



WiNG Family



WiNG-CO2

Technical Specifications

Power	7.2V (two 3.6V AA lithium batteries)
Battery Life	Up to 5 years at room temperature and at the default transmission rate
Shelf Life	10 years in quiescent mode with battery installed
Transmission Interval	10-20 seconds (random)
Frequency Range	Available in 868MHz and 900MHz configurations
Range	Up to 600ft line of sight
CO2 Sensor Range	0-2000 PPM
Accuracy	+/- 30 PPM plus 3% of reading
Measurement Interval	Every two minutes (default); Configurable 1-15 minutes
Temperature Sensor Accuracy At Room Temperature	Typical +/- 0.2°C; Max +/- 0.4°C; Room temperature is specified as 32°F to 140°F (0°C to 60°C)
Accuracy Over Full Operating Range	Typical +/- 0.6°C; Max +/- 1.0°C
Measurement Interval	10-20 seconds (random)
Humidity Sensor Accuracy Over Standard Operating Range	Typical 2%; Max 3.5%; Standard operating range is specified as 20% to 80% RH (Non-condensing)
Accuracy Over Full Operating Range	Typical 3.5%; Max 6%
Measurement Interval	10-20 seconds (random)
Operating Environment Temperature	32°F to 122°F (0°C to 50°C)
Humidity	0% to 90% RH (Non-condensing)
Altitude	-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	CE UL61010, CSA 22.2 #61010, IEC 61326-1, FCC 47CFR 15B, IC ICES-003, EN 61000-3-2, EN61000-3-3, ETSI EN 301 489-1, ETSI EN 301 489-3; FCC ID: X7J-A11072401; IC: 8975A-A11072401

