

WiNG-AIR

Environment Monitoring

WIRELESS AIR VELOCITY SENSORS

01 APPLICATIONS: Monitor air velocity in a wide variety of spaces, including:

- CRAC units
- Server racks
- Plenum spaces

02 KEY FEATURES:

- Three configurations to suit any application:
 - **Wide-range:** WiNG-AIR10
 - **High precision:** WiNG-AIR4
 - **Economical:** WiNG-AIR3
- Support 250 sensors on a single manager, up to 400 sensors with range extenders
- 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 range extender

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

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WHAT SETS THE WING-AIR APART?

- **Track changes in airflow** 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 11 years, communicating under normal room temperature conditions.
- **Up to 600' indoor, direct line of sight transmission range.** WiNG's expansive 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.

04 ROBUST, RESPONSIVE, COST EFFECTIVE WIRELESS MONITORING: Poor or obstructed airflow can significantly affect cooling performance and lead to equipment failure. WiNG-AIR sensors monitor changes in airflow to avoid unnecessary downtime.



05 WING-AIR3, WING-AIR4, WING-AIR10: Compatible with RLE's WiNG products

Product Codes	
WiNG-AIR3	WiNG air velocity sensor; 900MHz wireless transmitter; Range: 0-3 meters per second, +/-10%; Includes 6' sensor connector cable
WiNG-AIR3-868	WiNG air velocity sensor; 868MHz wireless transmitter; Range: 0-3 meters per second, +/-10%; Includes 6' sensor connector cable
WiNG-AIR4	WiNG air velocity sensor; 900MHz wireless transmitter; Range: 0-4 meters per second, +/-5%; Includes 6' sensor connector cable
WiNG-AIR4-868	WiNG air velocity sensor; 868MHz wireless transmitter; Range: 0-4 meters per second, +/-5%; Includes 6' sensor connector cable
WiNG-AIR10	WiNG air velocity sensor; 900MHz wireless transmitter; Range: 0-10 meters per second, +/-5%; Includes 6' sensor connector cable
WiNG-AIR10-868	WiNG air velocity sensor; 868MHz wireless transmitter; Range: 0-10 meters per second, +/-5%; Includes 6' sensor connector cable

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WING-AIR sensors are available in 900MHz and 868MHz configurations.

Use the 6 feet of included sensor connector cable to place the air velocity sensor and the WING transmitter in optimal locations for air velocity data collection and WING sensor transmission

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Technical Specifications

Power	3.6V AA lithium battery
Included Accessories	Applicable air velocity sensor for configuration (0-3m/s, 0-4m/s, or 0-10m/s); 6' sensor connector cable
Battery Life WING-AIR-3 WING-AIR-4 & WING-AIR-10	At room temperature: 11 years @ ~120 sec read frequency; 9.5 years @ ~90 sec read frequency; 8 years @ ~60 sec read frequency; 5.5 years @ ~30 sec read frequency 7 years @ ~240 sec read frequency; 5 years @ ~180 sec read frequency; 4 years @ ~120 sec read frequency; 2.25 years @ ~60 sec
Shelf Life	10 years in quiescent mode with battery installed
Air Velocity Range Accuracy	WING-AIR3: 0-3m/s; WING-AIR4: 0-4m/s; WING-AIR10: 0-10m/s WING-AIR3: +/-10%; WING-AIR4: +/-5%; WING-AIR10: +/-5%
Transmission Interval Frequency Range	10-20 seconds (random) Available in 868MHz and 900MHz configurations Up to 600ft line of sight
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.

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Technical Specifications

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