WiNG-MGR v2

Environment Monitoring

WIRELESS NETWORK MANAGER - VERSION 2

01

APPLICATIONS: Fine tune your environment to:

- Monitor a facility for changes in environmental conditions
- Meet energy efficiency goals
- Maintain optimal equipment performance parameters

02

KEY FEATURES:

- Expansive transmission range between manager and sensors supports your facility's flexible deployment needs:
  - **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**
- Support 250 sensors on a single manager, up to 400 sensors with range extenders
- Integrated mapping lets you visualize data and quickly identify sensor locations
- NO licensing or hosting fees – you own all of your data.
- Supports HTTPS and secure email services
- Available in 900MHz, 868MHz, and 865MHz configurations

03

WHAT SETS RLE'S WING-MGR APART?

- **A suite of sensors with an industry-leading 12 year battery life** allow users to monitor conditions including temperature, humidity, dew point, & liquid leaks, and to pull in signals from wired analog and digital devices.
- **Web interface delivers direct alarm, integrated mapping, & email notification** so you can quickly locate issues.
- **Open protocols streamline communication & integrate** into larger BMS systems via SNMP, Modbus, or BACnet.
- **Designed with your facility's security in mind,** WiNG sensors do not have IP addresses and cannot connect to a Wi-Fi network. This ensures that they cannot be used as unauthorized wireless access points.
- **A packet delivery rate that exceeds 98%** and a polling rate of 10-20 seconds means the readings you see are accurate and relevant.

04

ROBUST, RESPONSIVE, COST EFFECTIVE WIRELESS MONITORING: A complete system of sensors, gateway manager, and range extenders, RLE's budget friendly, feature rich WiNG products are the new standard for wireless monitoring.

05 **WING-MGR V2:** Compatible with all WiNG sensors and the WiNG-RXT

Product Codes	
WiNG-MGR v2	WiNG Manager - version 2; 900MHz receiver; includes rack mount bracket, PSWA-DC-24 power supply and type A blade
WiNG-MGR-868 v2	WiNG Manager - version 2; 868MHz receiver; includes rack mount bracket, PSWA-DC-24 power supply and type A, C G & I adapter blades
WiNG-MGR-865 v2	WiNG Manager - version 2; 865MHz receiver; includes rack mount bracket, PSWA-DC-24 power supply and type A, C G & I adapter blades
WiNG-MGR v2-NR	WiNG Manager v2 - No Radio; includes rack mount bracket and PSWA-DC-24-KIT, type A, C, G & I blades
WMB	Wall mount brackets; qty 2; for use with WiNG-MGR
WiNG-MGR DRM	WiNG-MGR DIN rail mount bracket; fits 35mm DIN rail

Related Items:

WiNG-RXT with Antennas

WiNG Family

06

Technical Specifications	
Power	24VAC @ 600mA max, 50/60Hz, 24VDC @ 600mA max
Included Equipment	WiNG-MGR v2, PSWA-DC-24 power supply, antennas, rack mount tabs
Wired Relay Outputs	Two (2) Dry Contact, Form C, 1A @ 24VDC resistive, 0.5A @ 120VAC
Maximum Number of Wireless Sensors Per Manager	RLE recommends not exceeding 250 sensors per WiNG-MGR; 400 sensors per WiNG-MGR may be accomplished with range
Communications Ethernet EIA-485 USB	Available in 900MHz, 868MHz, and 865MHz configurations 10/100 BASE-T, RJ45 connector; 500VAC RMS isolation 9600, 19200, or 38400 baud; no parity; 8 data bits; 1 stop bit Serial port emulation for diagnostics; 115200 baud; no parity; 8 data bits; 1 stop bit
Protocols TCP/IP, HTML, SNMP Modbus (EIA-485) Modbus TCP/IP BACnet/IP BACnet/MSTP	IPv4, IPv6; HTTP/HTTPS (TLS1.2); V1, V2C, V3 Modbus Server Modbus Server; TCP/IP transmission protocol ASHRAE STD 135-2004 Annex J EIA-485
Wireless Interface	Proprietary protocol from sensors to manager/range extender; mesh backbone between manager and range extender; appropriate receivers for configuration (865MHz, 868MHz, or 900MHz), RP/SMA connectors for 868-928MHz antennas.
Login Security	Web browser access (Ethernet); 4 users and passwords can be configured
Data Trending Temperature/Humidity	Records temperature and humidity data at 5 minute intervals; daily records; retains 30 days of information
Operating Environment Temperature Humidity Altitude	32°F to 140°F (0°C to 60°C) 5% to 95% RH (Non-condensing) 15,000ft (4572m) max.; 9,842ft (3000m) max. if applying more than 150V, 50/60Hz to relays from overvoltage category II circuit
Storage Temperature	-4°F to 185°F (-20°C to 85°C)
Mounting	Desktop, rack mount (tabs included)
Dimensions and Weight	9.7”W x 4.8”D x 1.8”H (24.6cmW x 12.2cmD x 4.6cmH), 2.7lb (1.23kg)
Certifications	ETL listed; CE; conforms to UL 61010-1, EN 61010, EN 61000-3-2, EN61000-3-3, EN 18031-1:2024; ETSI EN 301 489-1, ETSI EN 301 489-3; IEC 61326-1; certified to CSA C22.2 #61010; FCC X7J-A11072401, MCQ-XB900HP, and 47CFR 15B; IC 8975A-A11072401, 1846A-XB900HP, and ICES-003; RoHS compliant, WPC ETA