

Monitor. Integrate. Alert. Peace of Mind.

Applications

Fine tune your environment to:

- Monitor a facility for changes in a wide variety of environmental conditions
- Meet energy efficiency goals
- Maintain optimal equipment performance parameters
- Ensure your facility is operating as expected

Key Features

- 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
- Support 250 sensors on a single manager, up to 400 sensors with range extenders
- NO licensing or hosting fees – You own all of your data and firmware updates are available at no charge
- Available in 868MHz and 900MHz configurations



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.

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, CO2, and liquid leaks, and to pull in signals from wired analog and digital devices.
- **Web interface delivers direct alarm & email notification** so you can quickly, effectively locate areas of concern.
- **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.

WiNG-MGR • Compatible with all RLE WiNG and WIFI sensors and the WiNG-RXT

Product Codes

WiNG-MGR	WiNG Manager - 900MHz receiver; includes rack mount bracket, PSWA-DC-24 power supply and type A blade
WiNG-MGR-868	WiNG Manager - 868MHz receiver; includes rack mount bracket, PSWA-DC-24 power supply and type A, C G & I adapter 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



WiNG Family

Technical Specifications

Power	24VAC @ 600mA max, 50/60Hz, 24VDC @ 600mA max
Included Equipment	WiNG-MGR, 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 extenders, but signal conflict will increase
Communications	Available in 868MHz or 900MHz configurations
Ethernet	10/100 BASE-T, RJ45 connector; 500VAC RMS isolation
RS232	DB9 female connector; 9600 baud; no parity; 8 data bits; 1 stop bit
EIA-485	9600, 19200, or 38400 baud; no parity; 8 data bits; 1 stop bit
USB	Serial port emulation for diagnostics; 115200 baud; no parity; 8 data bits; 1 stop bit
Protocols	
TCP/IP, HTML, TFTP, SNMP	V1: V2C MIB-2 compliant; NMS Manageable with Get; IPv4; IPv6
Modbus (EIA-485)	Modbus Server; RTU mode; Supports function codes 03
Modbus TCP/IP UDP/IP	Modbus Server; TCP/IP transmission protocol
BACnet/IP	ASHRAE STD 135-2004 Annex J
BACnet/MSTP	EIA-485
Terminal Emulation (RS232)	VT100 compatible
Wireless Interface	Proprietary protocol from sensors to manager/range extender; mesh backbone between manager and range extender; appropriate receivers for configuration (868MHz or 900MHz), RP/SMA connectors for 868-928MHz antennas.
Login Security	Web browser access (Ethernet); 8 users and passwords can be configured
Data Trending	
Temperature	Records temperature data at 5 minute intervals; daily records; retains 30 days of information
Temperature/Humidity	Records temperature and humidity data at 10 minute intervals; daily records; retains 30 days of information
Operating Environment	
Temperature	32°F to 140°F (0°C - 60°C)
Humidity	5% to 95% RH (Non-condensing)
Altitude	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 - 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; 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

