




Falcon Wi-MGR-INT Wireless Sensor Network Manager

RLE's wireless sensor network manager receives and aggregates signals from wireless transmitters. It then displays this data on its integrated web interface, which provides a centralized view of the sensors and their current readings, as well as direct alarm notification from any smartphone or web browser.

Since the Wi-MGR-INT can relay the gathered information to facility monitoring systems, it streamlines communications and allows an unlimited variety of wireless equipment to communicate directly with a BMS or NMS. Newly added to the Wi-MGR-INT – four hardwired digital inputs and two hardwired relay outputs. This expands the device's capabilities and allows the Wi-MGR-INT to relay signals from traditional wired sensors and equipment.

While it can operate as a stand-alone device, the Wi-MGR-INT can easily integrate into larger systems via SNMP, or building management systems through BACnet. Modbus protocols can serve as a network repeater to convey alarm status information to a centralized location.

The convenient wireless design reduces installation and system expansion costs frequently associated with hard-wired sensors and systems, and allows users to complete installation without the aid of an electrician.

Features

- Wireless design
- Wireless receivers & antennas are included for indoor open air transmission:
 - 433MHz antenna - receives transmissions up to 100 feet (30.5m)
 - 2.4GHz antenna - receives transmissions up to 600 feet (182m)
- Additional wired inputs and outputs provides expanded functionality

Benefits

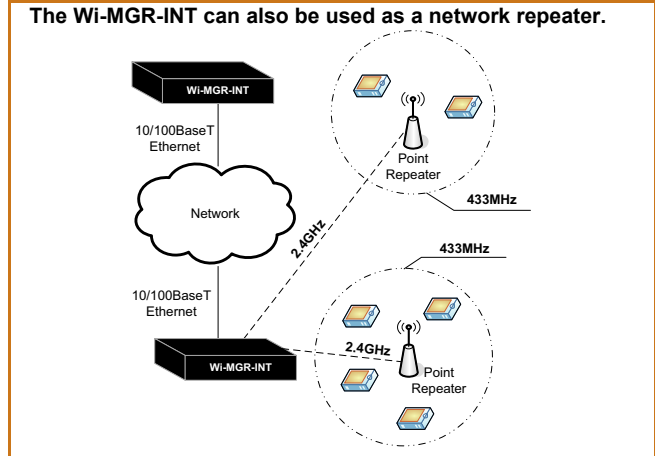
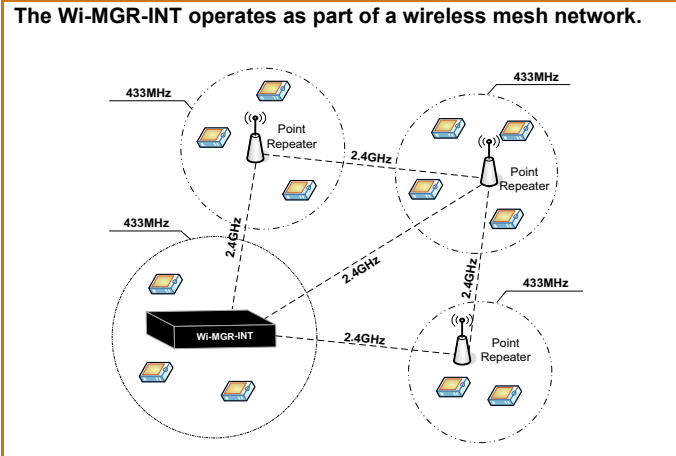
- Easy, low cost installation
- Output readings as Modbus, BACnet, and SNMP for integration with building management systems (BMS) and network management systems (NMS)
- Web interface enables direct alarm notification and stand-alone operation

Use the Wi-MGR-INT and RLE's Sensors to Monitor:

- Temperature
- Temperature/Humidity
- Power
- Equipment Status
- Third-party Devices

Monitoring & Notification

Suggested Wireless Sensor Network Manager Applications



Wi-MGR-INT Specifications

| | | |
|---|---|---|
| Power | 24VAC @ 600mA max, 50/60Hz, 24VDC @ 600mA max. | |
| Included Accessories | PSWA-DC-24 power supply (Type A blade) with Type C, G, and I blades included, (1) 433MHz antenna and (1) 2.4GHz antenna, Cat 6 crossover cable, rack mount brackets | |
| Wired Digital Inputs | Four (4) 24V, 10mA max. per channel | |
| Wired Relay Outputs | Two (2) Dry Contact, Form C, 1A @ 24VDC resistive, 0.5A @ 120VAC | |
| Maximum Number of Wireless Ports | 400 - RLE strongly recommends not exceeding 150 sensors per Wi-MGR-INT; point repeaters may be necessary | |
| Communication Ports | Ethernet EIA-232 EIA-485 | 10/100 BASE-T, RJ45 connector; 500VAC RMS isolation DB9 female connector; 9600 baud; No parity, 8 data bits, 1 stop bit 1200, 2400, 9600 or 19200 baud (selectable); Parity: none, even or odd, 8 data bits, 1 stop bit |
| Protocols | TCP/IP, HTML, TFTP, SNMP Modbus (EIA-485) Modbus TCP/IP UDP/IP BACnet/IP BACnet/MSTP Terminal Emulation (EIA-232) | V1: V2C MIB-2 compliant; NMS Manageable with Get Modbus Slave; RTU mode; Supports function codes 03 Modbus Slave; TCP/IP transmission protocol ASHRAE STD 135-2004 Annex J EIA-485 VT100 compatible |
| Indicators | Network Status EIA-485 Status | 2 Green - Active & Speed 1 Red LED 2 Green - Transmit & Receive |
| Wireless Interface | | 433MHz & 2.4GHz receivers, RP/SMA connectors for 433MHz & 2.4GHz antennas |
| Login Security | | Web Browser Access (Ethernet): 1 Web password Read Only; 1 Web password Read/Write |
| Data Trending | Temperature Temperature/Humidity | Records temperature data at 5 minute intervals; daily records; retains 30 days of information Records temperature and humidity data at 10 minute intervals; daily records; retains 30 days of information |
| Operating Environment | Operating Temperature Humidity Altitude | 32°F to 122°F (0°C - 50°C) 5% to 95% RH (Non-condensing) 15,000 ft (4572m) max. |
| Storage Temperature | | -4°F to 185°F (-20°C - 85°C) |
| Mounting | | Desktop, rack mount (brackets included), wall mount (brackets available, sold separately) |
| Dimensions and Weight | | 9.7"W x 4.8"D x 1.6"H (24.6cmW x 12.2cmD x 4.1cmH), 2.3lb (1.04kg) |
| Certifications | | CE, ETL listed; conforms to UL 61010-1, EN 61010; certified to CSA C22.2 NO, 61010.1; RoHS compliant |

