

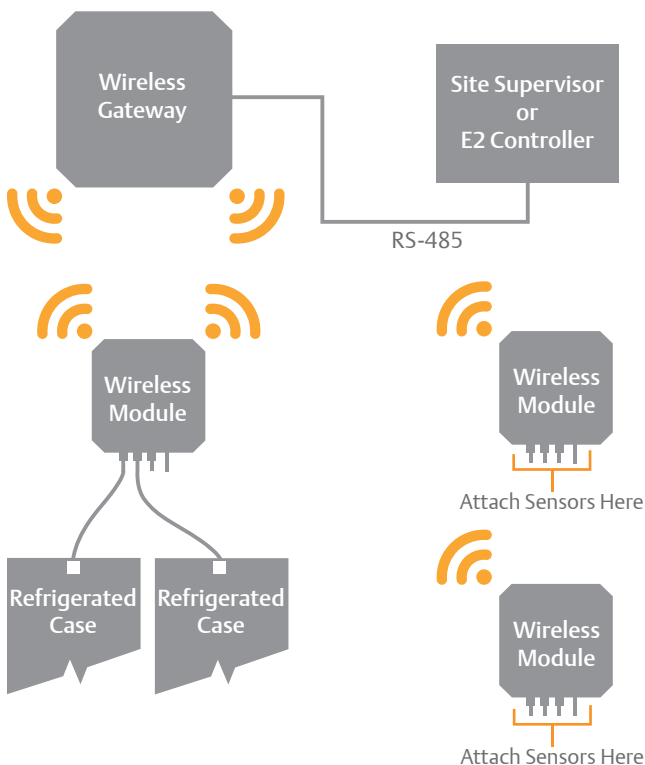
Wireless Module

Wireless monitoring for product quality



Emerson's Wireless Module System allows for quick and easy monitoring of a variety of refrigeration and HVAC applications by connecting temperature probes, product simulators, humidity probes, or switches to the Wireless Module that transmits these signals to the Wireless Gateway. The Gateway translates the signal into usable information to send to the building controller, E2 (version 4.08 or higher) or Site Supervisor, where the data can be logged into reports or used by algorithms to make control decisions. The Wireless Module is flexible and configurable with up to 3 analog or digital inputs, eliminating expensive network and power wiring.

Using patented energy harvesting technology, Emerson's Wireless Module can generate a signal of substantial range from a small amount of energy. The range is strong and reliable enough to reach up to 100 feet indoors and can be extended through repeaters to meet greater distances.



Benefits

- Quick and easy installation of Wireless Modules eliminates expensive network and power wiring, lowering installation costs by reducing labor and materials
 - Up to 15% cost savings in new construction
 - Up to 70% cost savings in retrofits
- No batteries or battery maintenance necessary, saving time, money and the environment by eliminating the need to monitor, stock, replace and dispose of batteries across the enterprise
- Wide range of applications in refrigeration and HVAC
 - Temperature, humidity, product simulators, switches
 - Mobile cases, single cases, case lineups, walk-ins
- Compatible with all Emerson Site Supervisor and E2 products for remote alarming and reporting

Features

- Solar power charges the Wireless Module for 5 hours @ 200 lux for continuous operation with battery backup
- Optional 5V power supply available for low or no light situations
- Up to 3 analog or digital inputs, configurable
- Broadcast rate, 30s – 15 min., configurable with a default of 2 min.
- 100ft range, extendable with the use of repeaters
- Strong 902 MHz signal able to pass through most objects with proper layout
- Simple installation with *Learn* and *Test* buttons
- Range analysis and diagnostics integrated into the E2 and Site Supervisor



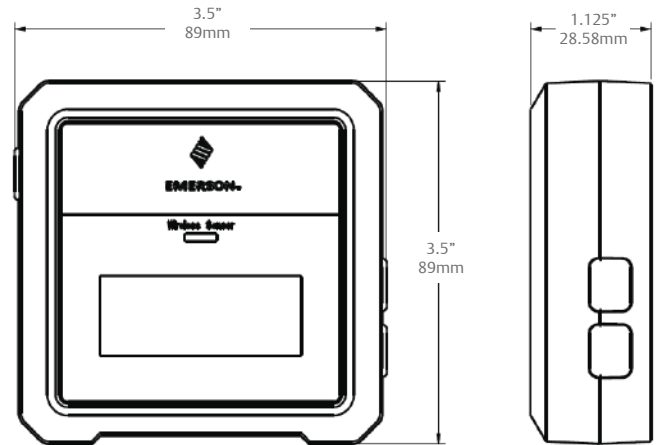
Wireless module technical specs

Power	Solar with battery backup
Battery backup (no light)	CR-2032
Additional power	Optional 5V power input
Wireless gateway	Up to 99 modules per gateway
Wireless module inputs	Up to 3 analog or digital sensors
Operating temperature range	-25 to +60 °C
Humidity	0% to 93% non-condensing
Max sensor cable length	Up to 20 Feet
Temperature transmit interval	10-900 seconds
LED status indicator	Tri-Color LED
Wireless frequency	902 MHz (North America)
Certification	FCC/FCC EMI, UL/UL-C, NSF module support
Dimensions	3.5" x 3.5" x 1.125"

No Batteries

Using solar technology to power the Wireless Module eliminates costly monitoring and tracking programs, stocking, replacement and disposal of environmentally harmful batteries. With a minimal amount of natural or artificial light, the Module can power itself virtually continuously. The Module even has a battery backup just in case there is no light for extended periods of time. An optional 5V power supply for no light applications is available.

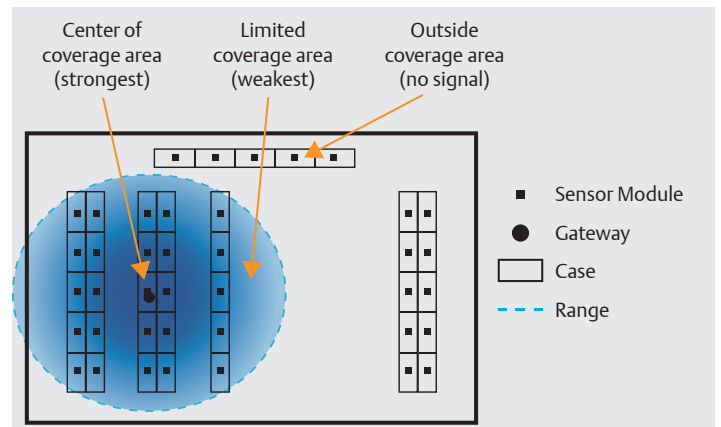
Part #	Name	Description
814-3550	Gateway	RF Gateway 902MHz
814-3560	Repeater	RF Repeater 902MHz, 24Vac
814-3570		RF Repeater 902MHz, 120Vac
814-3600	Module	RF Sensor 902MHz With User Selected Inputs, Clean Mode
814-3653		RF Sensor 902MHz, 3 Temperature, Clean Mode With Conn
501-1121	Temp sensor	General purpose
508-9101		Product simulator
201-1160		NSF temp sensor
140-6801	5V power supply	Optional wall mount 5V power supply



Easy Connection

Used with the Emerson Wireless Gateway connected to an E2 or Site Supervisor, the Module will send usable information to the building controller, or Site Manager where the data can be logged into reports or used by algorithms to make control decisions.

Simply press the Learn button to get started with fast reliable wireless connectivity to case lineups, mobile cases, single cases, walk-in coolers, and HVAC sensors.



The Next Generation of Facility Controls

Site Supervisor is the next generation of facility controls that deliver energy management with the ability to monitor various facility systems and provides alerts when there are issues that need attention. The Site Supervisor control module provides HVAC control, refrigeration system monitoring and control, as well as lighting control.