

ROOM CONTROL | LevNet RFTM

Room Control

LevNet RF™ Energy Harvesting Wireless Solutions

LevNet RF™ is Leviton's family of energy harvesting radio frequency products based on EnOcean's technology. EnOcean-based products, including the LevNet RF™ products, have three common features. They are:

• Energy Harvesting Technology • Wireless (Radio Frequency) • Interoperable within an RF-Based Network

Energy harvesting technology allows LevNet RF™ transmitters (i.e., occupancy sensors, switches, light sensors and hotel key card switches) to operate indefinitely without external power or batteries. Self-powered transmitters receive power from the motion of a switch actuation, light on a solar cell or temperature differentials in the environment for a true zero-maintenance energy harvesting device. Operating in the 315 mHz band provides minimal competing traffic and greater transmission range than other technologies. With no additional or new wiring required, LevNet RF™ delivers easyto-install energy harvesting lighting controls with little to no interruption to a customer's operations and without damage to the customer's property.

Product Overview

There are three main types of LevNet RF™ products:

- A TRANSMITTER, such as a switch, generates a wireless RF control signal (e.g., "ACTUATE RELAY"). All transmitters are self-powered products that can be located anywhere and send transmission signals. Transmitters are available in occupancy sensor, light sensor, switch leg, Vizia®-style remote switch, Decora® rocker switch remote, handheld remote, hotel key card and 3 x 3 remote switch (international) varieties.
- A RECEIVER receives a control signal from a transmitter and performs the appropriate action (e.g., activate or deactivate the relay). All receivers are connected to a power source and a load that the receiver operates when the RF signal is received. Receivers are available in basic and advanced wall switch, 3- and 5-wire relay, plug-in and thermostat styles.
- A TRANSCEIVER acts as both a transmitter (when it is generating an RF signal) and as a receiver (when it receives and processes an RF signal generated by a transmitter). The transceiver can also be used as a repeater where it utilizes the receiver and then retransmits the RF signal. Leviton offers room, shade, dimmer and 4- and 8-channel relay controllers.
- Accessories available for LevNet RF™ products include RS-232 serial box, signal strength meter, power packs and industrial wireless relay.

Features and Benefits

- Easy to install for new construction and retrofit applications, requiring minimal labor disruption to operations
- Requires no new wiring and installs in 1/4 the time of hardwired sensors, translating into faster turnaround and reduced costs
- With no batteries to replace and no maintenance to perform, plus annual energy savings and rebates that can total up to 80% in reduced costs, LevNet RF™ revolutionizes efficiency and savings
- Lowest power consumption of any RF device with less than one Watt per device used annually, saving approximately 70% over other RF devices
- LevNet RF™ is the only energy harvesting wireless solution that fulfills LEED requirements to earn LEED points for both wireless control and no battery
- Operation at 315 mHz band reduces interference and increases transmission range
- Range: 50 to 150 feet
- FCC Certified for Wireless Communication (U.S.), I.C. Certified (Canada)*
- Backed by a limited 5-year warranty

*Excludes WSD02-020.

NAFTA and Made in USA models available — visit www.leviton.com/NAFTA or www.leviton.com/USA

Visit www.leviton.com/levnetrf for more information



ROOM CONTROL | LevNet RF™ System Selection

LevNet RF™ Energy Harvesting Wireless System

Basic System Selection

STEP 1

Determine What LOADS You Want to Control: Lighting, HVAC, Lamp, TV, etc.



Pick the Appropriate RF RECEIVER and/or TRANSCEIVER







LevNet RF™ Wireless/ Wired-In Transceivers







STEP 3

Pick the Appropriate Energy Harvesting Wireless RF Transmitter (Sensor or Switch)

LevNet RF™ Sensor or Switch



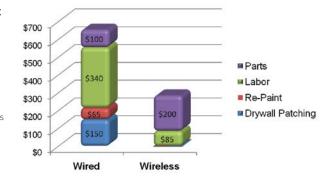




Tip A good way to visualize your wireless system is to imagine that the "wires" connecting each device are invisible wires or "unique addresses."

Wired vs. Wireless Cost

*Installation time per device: 45-50 minutes for hardwired vs. 10-15 minutes for wireless devices





ROOM CONTROL | LevNet RF™ Transmitters and Thermostats

Hardware and Software		
	LAN Access Point	USB Computer Link
Cat. No.	WSAP0-TIP	WSCOM-03W
Description	TCP/IP LevNet RF™ Gateway. Use with Leviton Venergy UI software. View software at www.leviton.com/LevNetRF	Use for testing, monitoring and commissioning a LevNet RF™ environment for use with LevNet RF™. View software at www.leviton.com/LevNetRF





WSAP0

SPOTLIGHT LevNet RF™

For more information on our energy harvesting wireless solutions, including technical reference, LEED credits, programming videos, and software downloads go to www.leviton.com/levnetrf

