**SELF-POWERED + RADIO FREQUENCY = TRUE WIRELESS**

Energy harvesting using levNet RF transmitters operates reliably without external power or batteries. For a true-zero-maintenance wireless device, the transmitter receives power from the motion of a watch oscillation, light from a solar cell, or temperature differentials in the environment. Transmitters communicate with levNet RF receivers via radio-frequency signaling that can be powered by the transmitter's internal power harvesting circuitry and transmitter power from nearby devices.

**GREEN SOLUTIONS**

- **Energy Savings:** • Zero-power consumption on wireless receivers at less than one Watt per device.
- **Maintenance:** • There’s virtually anywhere and any control compatible with any wireless device within range.
- **Self-powered and self-charging:** Uses zero external power consumption to operate.

**ENERGY HARVESTING**

- **Self-powered and self-charging, uses zero external power technologies.**
- **LevNet RF: Equipment actuation, light on a solar cell or temperature differentials in the environment. Transmitters communicate with LevNet RF receivers via radio frequency signaling that can be powered by the transmitter’s internal power harvesting circuitry and transmitter power from nearby devices.**
- **Energy harvesting:** LevNet RF transmitters operate indefinitely with other EnOcean Alliance wireless devices.
- **Implementation:** For a true zero-maintenance wireless energy harvesting solution, the transmitter can be powered by the transmitter’s internal power harvesting circuitry and transmitter power from nearby devices.

**WIRED VS. WIRELESS COSTS**

- **2 min (test), 10, 20, 30 min**
- **30 seconds**
- **Power Consumption:**
  - **Longest:**
  - **Medium:**
  - **Low:**
  - **High:**
  - **Off:**

**LEVENET RF SELF-POWERED WIRELESS SOLUTIONS**

**COMPATIBILITY**

**PRODUCT**

- **Basic Wall Switch Receivers**
  - **x x x A x - - - - - - - - - x**
- **X - Indicates compatibility**
- **P - Indicates partial support (PTM mode only)**
- **A - Indicates product is compatible only with WSTxx**

**WS0RF-300**

**PAIR**

- **RF TRANSMITTER**
- **and/or**
- **RELAY RECEIVER MODULES**

**RECEIVERS AND TRANSCEIVERS**

**WALL SWITCH RECEIVERS**

- **Input Voltage:**
  - **Power Supply Input:**
  - **Memory:**
  - **Power Consumption:**
  - **Max Loads/Contact Ratings:**
  - **Time Delay:**
  - **Additional Listings:**

**WIRELESS RELAY RECEIVERS**

- **Input Voltage:**
  - **Power Consumption:**
  - **Max Loads/Contact Ratings:**
  - **Time Delay:**
  - **Additional Listings:**

**DIMMER MODULES**

- **Input Voltage:**
  - **Power Supply Input:**
  - **Memory:**
  - **Power Consumption:**
  - **Max Loads/Contact Ratings:**
  - **Sampling Rule:**
  - **Fan Control:**
  - **Additional Listings:**

**DIMMER W/ON/OFF RELAY RECEIVERS**

- **Input Voltage:**
  - **Power Supply Input:**
  - **Memory:**
  - **Power Consumption:**
  - **Max Loads/Contact Ratings:**
  - **Time Delay:**
  - **Additional Listings:**

**ROOM CONTROLLERS AND RELAY RECEIVERS**

- **Input Voltage:**
  - **Power Supply Input:**
  - **Memory:**
  - **Power Consumption:**
  - **Max Loads/Contact Ratings:**
  - **Time Delay:**
  - **Additional Listings:**

**TRANSMITTERS**

**WIRELESS RELAY TRANSMITTERS**

- **Input Voltage:**
  - **Power Supply Input:**
  - **Memory:**
  - **Power Consumption:**
  - **Max Loads/Contact Ratings:**
  - **Time Delay:**
  - **Additional Listings:**

**DIMMER TRANSMITTERS**

- **Input Voltage:**
  - **Power Supply Input:**
  - **Memory:**
  - **Power Consumption:**
  - **Max Loads/Contact Ratings:**
  - **Time Delay:**
  - **Additional Listings:**

**WIRELESS ROOM CONTROLLERS**

- **Input Voltage:**
  - **Power Supply Input:**
  - **Memory:**
  - **Power Consumption:**
  - **Max Loads/Contact Ratings:**
  - **Time Delay:**
  - **Additional Listings:**

**ACCESSORIES**

- **Input Voltage:**
  - **Power Supply Input:**
  - **Memory:**
  - **Power Consumption:**
  - **Max Loads/Contact Ratings:**
  - **Time Delay:**
  - **Additional Listings:**

**REMOTE SWITCHES**

- **Input Voltage:**
  - **Power Supply Input:**
  - **Memory:**
  - **Power Consumption:**
  - **Max Loads/Contact Ratings:**
  - **Time Delay:**
  - **Additional Listings:**
### BASIC LEVNET RF SOLUTIONS

<table>
<thead>
<tr>
<th>Basic Wireless Lighting</th>
<th>3-Way or Multi-Location Switching</th>
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<tbody>
<tr>
<td>Wireless Switch</td>
<td>Daylight Harvesting with Bi-Level Control</td>
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</table>

#### STEP 4: PAIR the devices to communicate with each other

**BASIC WALL SWITCH RECEIVER PAIRING**

**Step 1: Enter Pairing**
- Press & hold button for 15 seconds
- LED will change to flashing amber

**Step 2: Select Pairing or Clear Mode**
- For Basic WSS10 Models:
  - Amber LED (1 flash = Paring; 2 flashes = Clear)
  - No devices can be paired on flashing amber, continue to step 3 unless you need to CLEAR

- For Advanced WSS10 Models:
  - Amber LED (1 flash = Rocker; 2 flashes = Momentary, 3 flashes = Toggle)
  - Select pairing mode by tapping button to advance flashes
  - No devices can be paired on flashing amber, continue to step 3 unless you need to CLEAR

**Step 3: Enter the Pairing Mode**
- Press & hold button for 5 seconds
- LED will change to red (pair devices paired) or green (number of flashes indicates number of devices paired)

**Step 4: Pair Transmitter Button**
- Tap button to return to mode selection (amber LED)

**Step 5: Exit Pairing**
- Auto exit will occur in 20 seconds

**RELAY RECEIVERS WITH 2-BUTTON PAIRING**

**Step 1: Enter Pairing**
- Press & hold button until load flashes

**Step 2: Select Paring Mode**
- Press & hold button again to advance modes
  - 1 flash = Rocker
  - 2 flashes = Momentary
  - 3 flashes = Toggle

- Load will flash faster to acknowledge

**Step 3: Pair Transmitter Button**
- Press & release button you wish to pair
- Load will hold ON for successful pairing, hold OFF for unpairing

**Step 4: Exit Pairing**
- Auto exit will occur in 30 seconds, or
- Press & hold button for 1 seconds and release

**ROOM CONTROLLER TRANSCEIVER PAIRING**

**Step 1: Enter Pairing (Output 1)**
- Press & hold button until load 1 starts flashing

**Step 2: Select Paring Mode**
- Press & hold button again to advance modes
  - 1 flash = Rocker
  - 2 flashes = Momentary
  - 3 flashes = Toggle

- Load will flash faster to acknowledge next mode

**Step 3: Pair Transmitter Button**
- Press & release button you wish to pair
- Load will hold ON for successful pairing, hold OFF for unpairing

**Step 4: Exit Pairing**
- Wait 30 seconds
- Press LRN for a seconds and release

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### HOW TO PUT IT ALL TOGETHER

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