

bitwise™



Cat. No. 000-BWRMT-000

## BWRMT INSTALLATION GUIDE

### ENGLISH

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DI-000-BWRMT-05A

#### LEVITON LIMITED WARRANTY

Leviton warrants to the original consumer purchaser and not for the benefit of anyone else that products manufactured by Leviton under the Leviton brand name ("Product") will be free from defects in material and workmanship for the time periods indicated below, whichever is shorter:

- **OmniPro II and Lumina Pro:** three (3) years from installation or 42 months from manufacture date.
- **OmniLT, Omni Ite, and Lumina:** two (2) years from installation or 30 months from manufacture date.
- **Thermostats, Accessories:** two (2) years from installation or 30 months from manufacture date.
- **Batteries:** Rechargeable batteries in products are warranted for ninety (90) days from date of purchase. **Note:** Primary (non-rechargeable) batteries shipped in products are not warranted.

**Products with Windows® Operating Systems:** During the warranty period, Leviton will restore corrupted operating systems to factory default at no charge, provided that the product has been used as originally intended. Installation of non-Leviton software or modification of the operating system voids this warranty. Leviton's obligation under this Limited Warranty is limited to the repair or replacement, at Leviton's option, of Product that fails due to defect in material or workmanship. Leviton reserves the right to replace product under this Limited Warranty with new or remanufactured product. **Leviton will not be responsible for labor costs of removal or reinstallation of Product.** The repaired or replaced product is then warranted under the terms of this Limited Warranty for the remainder of the Limited Warranty time period or ninety (90) days, whichever is longer. This Limited Warranty does not cover PC-based software products. **Leviton is not responsible for conditions or applications beyond Leviton's control. Leviton is not responsible for issues related to improper installation, including failure to follow written Installation and operation instructions, normal wear and tear, catastrophe, fault or negligence of the user or other problems external to the Product.** To view complete warranty and instructions for returning product, please visit us at [www.leviton.com](http://www.leviton.com).

For Technical Assistance Call: 800-824-3005 - [www.leviton.com](http://www.leviton.com)

#### WARNINGS & CAUTIONS

- **WARNING: TO AVOID DEATH OR SERIOUS PERSONAL INJURY** never push objects of any kind into this product through openings, as they may touch dangerous voltages.
- **WARNING: TO AVOID DEATH OR SERIOUS PERSONAL INJURY** never touch uninsulated wires or terminals unless the wiring has been disconnected at the network interface.
- Read and understand all instructions. Follow all warnings and instructions marked on the product.
- **Do not use this product near water** - e.g., near a tub, wash basin, kitchen sink or laundry tub, in a wet basement, or near a swimming pool.
- Never install communications wiring or components during a lightning storm.
- Never install communications components in wet locations unless the components are designed specifically for use in wet locations.
- Use caution when installing or modifying communications wiring or components.
- **SAVE THESE INSTRUCTIONS.**

**FCC COMPLIANCE:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**IC STATEMENT:** This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

**FOR CANADA ONLY:** For warranty information and/or product returns, residents of Canada should contact Leviton in writing at **Leviton Manufacturing of Canada Ltd to the attention of the Quality Assurance Department, 165 Hymus Blvd, Pointe-Claire (Quebec), Canada H9R 1E9** or by telephone at **1 800 405-5320**.

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WEB VERSION

## OVERVIEW

The Room Remote can be added to a Leviton® bitwise™ system utilizing iOS®/Android® Devices for control or can be used as the sole point of control. Each system needs at least one RF receiver and a compatible *Leviton bitwise* Controller (see Requirements for details). This document will guide you through connecting the required hardware. For programming, please refer to the Room Remote Programming Guide.

## REQUIREMENTS

### Hardware

- Room Remote - BWRMT
- RF to Serial Receiver – BWRRR
- Compatible *Leviton bitwise* Controller - BWBC1, BWBC2, Gen 2 BWBC4 (Not compatible with Gen1 BWBC4)

### Software

- Project Editor - v1.9.60 or later
- BWBC1 Firmware - v131115-0.1fw
- BWBC2 Firmware - v131115-0.1fw
- BWBC4 Firmware – v1.3.16

## CONNECT THE RF RECEIVER TO THE CONTROLLER SERIAL PORT

Each RF Receiver is capable of supporting up to 255 RF Room Remotes. The RF Receiver connects via RS232 to a compatible *Leviton bitwise* Controller. In most cases, it will be easiest to use a serial port with terminal connectors rather than the DB-9. The remaining instructions assume you are using a serial port with terminal block connections.

ROOM REMOTE WIRE	BITWISE CONTROLLER RS232 PORT
Black	GND - Ground
White	RXD - Receive
Red	4+12 VDC - Power

**NOTE:** If you need to extend the cable for the RF Receiver we recommend using 3 conductor shielded cable or 2 pairs of Cat5/6 network cable. If using Cat5/6, use the Orange pair for signal and ground and the Green pair for Power and ground. (Yes, connect ground to one conductor of each pair).

## RF RECEIVER PLACEMENT

Try to place the RF Receiver in a central location close to where the remote(s) will be used, away from sources of RF noise and large amounts of metal (refrigerators, furnaces etc...). The antenna whip should be vertical in most cases but may be adjusted as necessary for optimal reception.

### ADDRESS THE REMOTE(S)

1. Hold the "OK" and "B" buttons until the res status LED turns solid red (**figure 1**).
2. Enter a THREE digit address (001-255) using the numeric keys.
3. Press the "OK" key.

The LED will blink twice if the process was successful and 5 times if an invalid sequence was entered or the procedure timed out.

## CONTACT

**Technical Support:** 1-800-824-3005

**Email:** [sabw@leviton.com](mailto:sabw@leviton.com)

[support@bitwisecontrols.com](mailto:support@bitwisecontrols.com)

**Web:** [www.leviton.com/automation](http://www.leviton.com/automation)

FIGURE 1

