

# HTT-B2EX-BATT

## Battery-Powered infiNET EX 2-Button Wireless Keypad

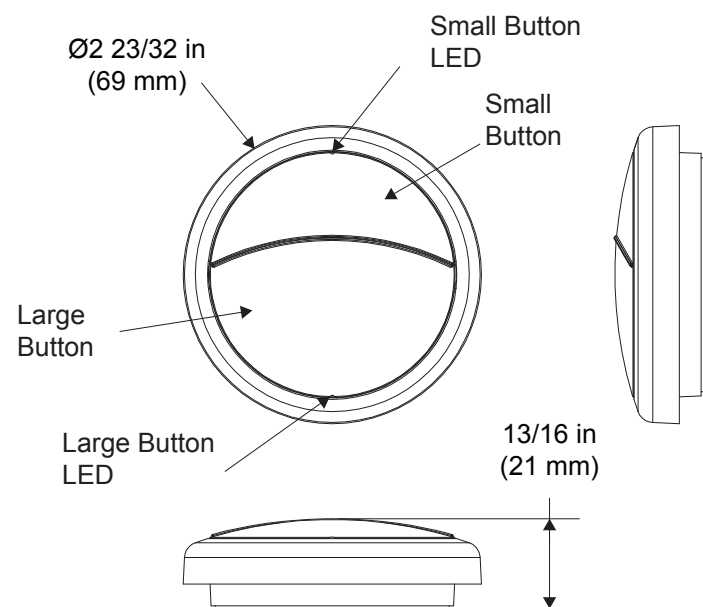
### 1 Description

The HTT-B2EX-BATT is a battery-powered, 2-button, wireless keypad designed to control a wide range of applications supported by a Crestron® control system. Compact and simplistic in design, the HTT-B2EX-BATT is an ideal tabletop keypad for use as a hotel bedside controller, a conference room presenter selector or a simple living room lighting/shade controller. The HTT-B2EX-BATT is powered by lithium coin cell batteries that boast high performance and a long battery life. Outfitted with Crestron infiNET EX® technology, the HTT-B2EX-BATT can be wirelessly connected to a Crestron control system.

The HTT-B2EX-BATT is available with an optional tether that allows the device to be secured at its mounting location.

#### infiNET EX Communication

Built on steadfast infiNET™ technology, infiNET EX is the new standard in 2-way wireless connectivity that can handle installations in even the most urban settings. The redundant nature of its mesh networking technology means that a command will never be missed, resulting in faultless operation—something that is of the utmost importance when it comes to home automation. The HTT-B2EX-BATT harnesses this cutting edge wireless connectivity which affords it a level of robustness and dependability above other solutions.



### 2 Installation

Installation of the HTT-B2EX-BATT is limited to powering the device, placing it on a flat surface and securing it to the line cord of a lamp (optional).

#### Power Device

The HTT-B2EX-BATT is shipped with the batteries pre-installed. To power the device pull and remove the plastic tab on the side of the device. Once the plastic tab is removed the device is powered and ready to be operated. Properly discard the plastic tab.

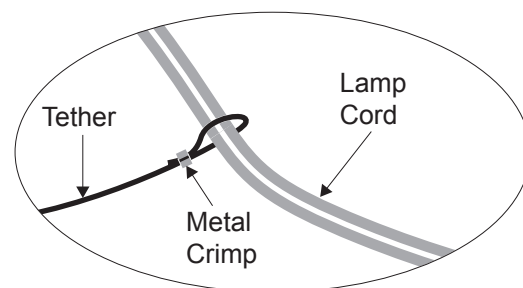
#### Place Device

Place the HTT-B2EX-BATT on the table surface where it is to be used.

#### Secure Device (Optional)

A security tether is available on the HTT-B2EX-BATT-B-T W/TETHER and HTT-B2EX-BATT-W-T W/TETHER. The tether is secured inside the cover of the keypad and attaches to a lamp cord. Use the following steps to secure the loose end of the tether to a lamp cord.

1. Wrap the loose end of the tether around the lamp cord. The loop should be loose enough to allow the tether to slide along the lamp cord but not loose enough to slide it over the plug.
2. Use the supplied metal crimp and a pair of pliers to secure the tether to the lamp cord.
3. Neatly trim the excess wire from the tether using a pair of wire cutters.



### 3 RF ID

It is recommended to use Crestron Toolbox™ to set the RF ID of the device while the device is awake. Wake the device by pressing the large or small button on the HTT-B2EX-BATT.

The RF ID of the unit, set using Crestron Toolbox, must match the RF ID specified in the Crestron Studio™ or SIMPL Windows program.

### 4 Firmware

To upgrade the firmware on the HTT-B2EX-BATT use Crestron Toolbox (v. 2.37.01 or later). Upload firmware with the infiNET EX Firmware Upload tool by clicking **Tools | infiNET EX Firmware Upload** in Crestron Toolbox.

**NOTE:** This infiNET EX Firmware Upload tool eliminates the need for the user to manually wake every sensor that is being updated.

**NOTE:** When using the infiNET EX Firmware Upload tool, the device does not update immediately. It updates upon waking up and communicating with the gateway.

The infiNET EX Firmware Upload tool has four columns: product ID, Firmware image, model name, and version number. Assign the selected firmware image from the bottom box to the corresponding ID/model name.

After pressing the load firmware file button, the gateway holds the file and waits for the device to wake up on its own. Once the device wakes up it checks for differences in the firmware file, if different than the one currently on the device the firmware is loaded onto the sensor.

### 5 Wireless Communication

The device connects to the Crestron network via the infiNET EX communications protocol. Use the procedures outlined below to join or leave an infiNET EX network and to verify communications between the device and the control system.

#### Joining an infiNET EX Network

Before a device can be used in a lighting system, it must first join an infiNET EX network by being acquired by an infiNET EX gateway.

**NOTE:** A device can be acquired by only one gateway.

1. Put the infiNET EX gateway into *Acquire* mode from the unit itself or from Crestron Toolbox, as described in the latest version of its manual, which is available from the Crestron Web site ([www.crestron.com/manuals](http://www.crestron.com/manuals)).

**NOTE:** In an environment where multiple gateways are installed, only one gateway should be in *Acquire* mode at any time.

(Continued on the following page)

### 6 Wireless Communication (Continued)

2. Place the device into *Acquire* mode by doing the following:
  - a. Tap the large button three times then press and hold it down (tap-tap-tap-press+hold) until the large button LED on the device flashes once (this can take up to 10 seconds).
  - b. Release the button to start the acquire process. The large button LED blinks slowly to show that the device is actively scanning the infiNET EX network.
    - The device is acquired when the large button LED lights for 5 seconds.
    - The large button LED blinks 10 times to indicate that the device was not successfully acquired to the infiNET EX network. Ensure gateway is in *Acquire* mode and within range before attempting the acquire process again.
3. Take the infiNET EX gateway out of *Acquire* mode from the unit itself or from Crestron Toolbox, as described in the latest version of its manual.

#### Leaving an infiNET EX Network

To leave an infiNET EX network put the device into *Acquire* mode, as described in “Joining an infiNET EX Network” above, when no gateway is in *Acquire* mode.

#### Verifying Communications Status

To check the communication status of the device tap the large button three times then press and hold it down (tap-tap-tap-press+hold) for less than 2 seconds. The large button LED indicates the communication status. Refer to the following table for details.

LED	COMMUNICATIONS STATUS
Turns on for 5 seconds	Device communicating with gateway and control system.
Blinks three times	Device communicating with gateway but not the control system.
Blinks twice	Device is acquired but not communicating with gateway.
Blinks once	Device not acquired to a gateway.

### 6 Replace Battery



**WARNING:** Refer to the following warnings before changing the batteries.

- Do not ingest batteries, chemical burn hazard.
- This product contains coin cell batteries. If a coin cell battery is swallowed, it can cause severe internal burns in just 2 hours and can lead to death.
- Keep new and used batteries away from children. If the battery compartment does not close securely, stop using the product and keep it away from children.
- If you think batteries have been swallowed or placed inside any part of the body, seek immediate medical attention.

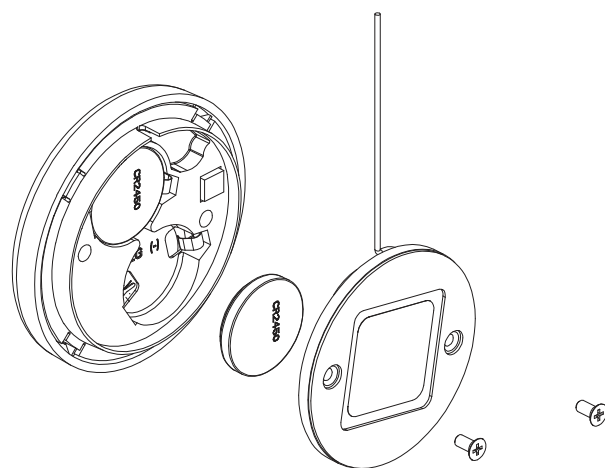


**CAUTION:** The battery used in this device may present a risk of fire or chemical burn if mistreated. Do not recharge, disassemble, heat above 212° F (100° C), or incinerate. Replace batteries with Panasonic® CR2450 only. Use of another battery may present a risk of fire or explosion.

Follow the instructions below to replace the batteries in the HTT-B2EX-BATT. Refer to the illustration that follows for details.

1. Using a Phillips head screwdriver remove the two screws on the bottom of the device that secure the base to the cover.
2. Gently separate the base from the cover of the device.
3. Remove the two batteries from the cover of the HTT-B2EX-BATT and replace with two new Panasonic CR2450 batteries.
4. Reassemble the HTT-B2EX-BATT and place it in its original location.

**NOTE:** Dispose of used batteries promptly. Keep away from children. Do not disassemble and do not dispose of in fire.



The specific patents that cover Crestron products are listed at [patents.crestron.com](http://patents.crestron.com).

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