

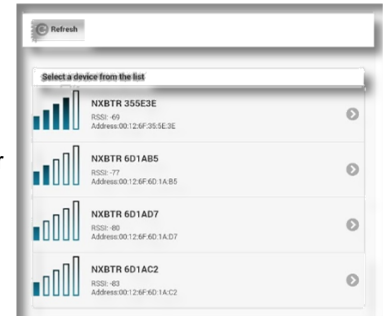
Room Controller Setup App Operation Guide



IMPORTANT: This App is designed to assist in the configuration of control parameters for the Hubbell Wiring Device-Kellems Load:Logic® Room Controller. Once the App has been used to change any setting in a room, manual configuration using the push buttons and LEDs on the Room Controller will be disabled. All further settings will need to be made using the App. (See Room Controller Installation Instructions)

START THE APP BY TOUCHING THE NX SCREEN ICON.

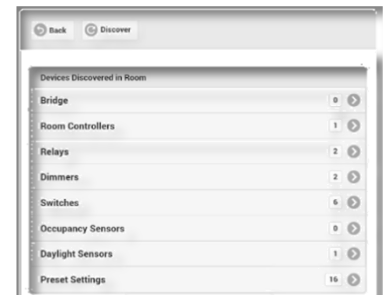
When the App starts, you will be prompted to enter a security pin. The default pin is **96@01**. Once started, the App will automatically do a discovery to find all active RCBTM's (NXBTR) Bluetooth® interface modules that are in range. After discovery is complete, a list of discovered RBTM's will be displayed. Use the signal strength indicators to determine the closest module for the current room. Modules can also be uniquely identified by the MAC address label on the module's housing.



Touch the appropriate module indicator to start a discovery of devices in the room where this module is installed. Wait for the discovery to complete before making further selections.

When discovery is complete, a listing of the devices found will be displayed. These will include:

1. **Room Controllers:** Touch to display a list of room controllers found in the room. Touch one of the room controllers to see a display showing controls for the relay(s) and dimmer(s), if present, in that room controller. If the room has only one room controller, it will automatically open when **Room Controllers** is selected.



The current state of the relays and dimmers will be displayed on the screen. The displays are in real time.

Use the relay control(s) to change the state of the relay. Use the dimmer control bar to change the state of the dimmer(s)

Reboot (Top of Screen): Restarts the room controller.

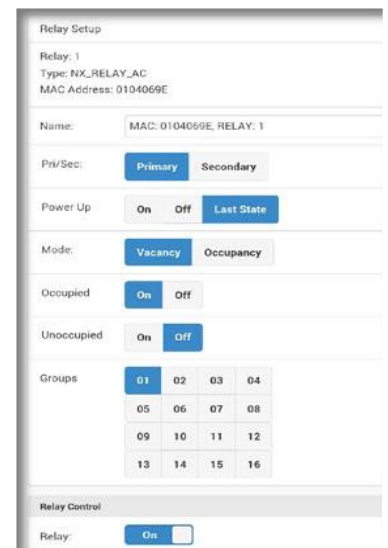
Factory Reset: Sets the room controller and all connected devices back to factory default settings.

2. **Relays:** Touch to display a list of relays found in the room. Touch the relay to see a display of the available relay settings. The current settings will be shown on the display.

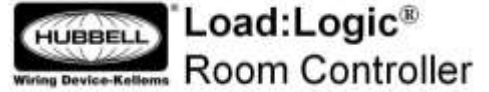
Name: Allows the relay to be given a meaningful name. Use the keyboard to enter a name if desired.

Pri/Sec: Indicates whether this relay is logically a Primary relay or a Secondary relay. This logic is used with the daylight sensor option to determine the sequence in which the relay(s) will switch OFF in response to increasing daylight. The Primary relay will switch first, followed by the Secondary.

Power Up: Select the state this relay will default to upon restoration of power to the room controller after an outage. The default setting is **Last State**.



Room Bluetooth Interface Module Installation Instructions



Precautions

READ AND FOLLOW ALL SAFETY INSTRUCTIONS.

SAVE THESE INSTRUCTIONS!

Description

The Hubbell Wiring Device-Kellems RCBTM's (NXBTR) Bluetooth® interface module enables wireless communication with one group of room controller(s), sensor(s), and switches using a Smart Phone or other *Bluetooth* enabled hand held device to manually control the room loads and/or perform set up and configuration.

INSTALLATION

1. Connect the Bluetooth interface module to a RJ45 port on either the room controller or a smart switch
2. If the Bluetooth module is being installed behind a smart switch, be careful to guide the module into a clear space in the box behind the switch as the screws are tightened.
3. Install the NX Room Setup App in your mobile device. The App is available from either the Google Play Store for Android™ mobile devices or the Apple's App Store for Apple mobile devices.
4. Consult the Room Controller Setup App Operation Guide for instructions on using the App to set up and configure the lighting controls.
5. When the App is started, any modules in range will be discovered and appear on the screen. If several modules are installed, it is likely that you will discover more than one. Each discovered module will include a signal strength indicator. This can be useful in identifying the local room.
6. Touch the NXBTR to which you wish to connect. Select a room controller on the screen. Use the relay ON/OFF control(s) to toggle the relay and confirm that you are connected to the local room.
7. Touch "Back" on the screen to return to the discovery screen to select the device you wish to configure.



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*Android™ is a trademark of Google, Inc.



Mode: Indicates how the relay will respond to the occupancy sensor. Occupancy mode is automatic ON. Vacancy mode is manual ON. This will automatically be set to Vacancy mode for all relays if at least one switch is connected to the room controller(s).

Occupied: Sets the state of the relay when the room is occupied. Default is ON.

Unoccupied: Sets the state of the relay when the room is unoccupied. Default is OFF.

Groups: A blue background fill in one of the 16 available groups indicates that this relay is selected to be a member of this group number. A gray background fill indicates that the relay is NOT a member of the group. The relay may be a member of any or all groups if required.

Relay: Allows manual ON/OFF actuation of the relay in real time.

Make changes as needed. Touch the **<Accept>** button to save the changes or touch the **<Back>** button to exit WITHOUT saving the changes.

3. **Dimmers:** Touch to display a list of dimmers found in the room. Touch one of the dimmers to see a display of the dimmer settings:

Name: Allows the dimmer to be given a meaningful name. Use the keyboard to enter a name if desired.

Power Up: Select the state this dimmer will default to upon restoration after an outage. **<Last State>** is the default setting. Touch **<Set Level>** to enter a specific dim level for power up. Use the **<Level>** slider to set the desired level or, touch the box to use the keyboard to enter the level.

High Trim: Sets the maximum dimming level for this dimmer. The default setting is 100%.

Low Trim: Sets the minimum dimming level for this dimmer. The default setting is 0%

Dim to OFF: If set to **<Enabled>**, a relay(s) in the same group as the dimmer, will turn OFF when the dimming level reaches 0%. If set to **<Disabled>**, a relay(s) in the same group as the dimmer, will NOT turn OFF when the dimming level reaches 0%.

Mode: Indicates how the dimmer will respond to the occupancy sensor. Vacancy Mode is Manual ON. Occupancy Mode is Automatic ON.

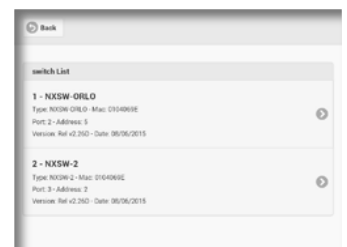
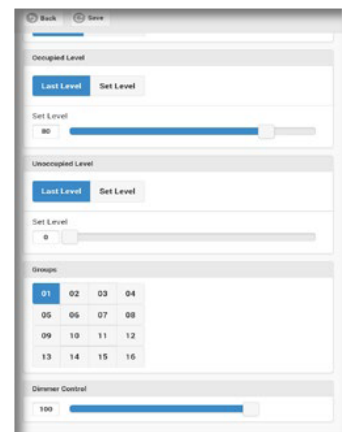
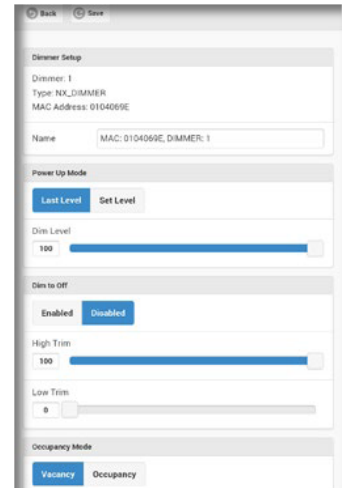
Occupied Level: Sets the Level of the dimmer when the room is occupied. Default is **Last Level**.

Unoccupied Level: Sets the level of the dimmer when the room is unoccupied. Default is **Last Level**.

Groups: A blue background fill in one of the 16 available groups indicates that this dimmer is selected to be a member of this group number. A gray background fill indicates that the dimmer is NOT a member of the group. The dimmer may be a member of any or all groups if required.

Dimmer: Allows manual actuation of the dimmer in real time.

Make changes as needed. Touch the **<Accept>** button to save the changes or touch the **<Back>** button to exit WITHOUT saving the changes.



- Switches:** Touch to display a list of switches found in the room. Note that each switch display indicates the port number and switch's address wheel setting (See RC Switch installation instructions for more details). This is useful for distinguishing between switches of the same type in the room.

There are a number of different switch types that might be discovered. The setup screens for the various types will differ based on the function of the switch being selected.

Touch a switch to see the current settings for that switch:

A. Multifunction Switch - # series smart switch:

Name: Allows the switch station to be given a meaningful name. Use the keyboard to enter a name as desired.

Button: Blue background fill indicates the currently selected button.

Type: Indicates the current button type. The default button type is Toggle. Use the pull down to display a list of the available button types and select the desired Type from the list for this button:

- Toggle:** Touch ON/Touch OFF (default)
- ON:** Touch for ON only
- OFF:** Touch for OFF only
- Raise:** Ramp dimmer up
- Lower:** Ramp dimmer down
- Timed ON:** Touch for ON for set time period
- Disabled:** Button disabled



Groups: A blue background fill in one of the 16 available groups indicates that this switch is selected to be a member of this group number. A gray background fill indicates that the switch is NOT a member of the group. The switch may be a member of any or all groups if required.

Make changes as needed. Touch the **<Accept>** button to save the changes or touch the **<Back>** button to exit WITHOUT saving the changes.

B. ON/RAISE/LOWER/OFF (ORLO) and RAISE/LOWER (RL) Switches:

Name: Allows the switch station to be given a meaningful name. Use the keyboard to enter a name as desired.

Raise/Lower Setup: Allows adjustment to the speed at which the dimming level will change as a Raise or Lower button held down.

Rate: Sets the rate at which level change messages are sent from the switch to the dimmer. Recommended setting is 300.

% Change: Sets the amount of change that occurs with each message. A setting of 10 will provide about a 5 second transition time from 0% to 100%.

Groups: A blue background fill in one of the 16 available groups indicates that this switch is selected to be a member of this group number. A gray background fill indicates that the switch is NOT a member of the group. The switch may be a member of any or all groups if required.



Make changes as needed. Touch the **<Accept>** button to save the changes or touch the **<Back>** button to exit WITHOUT saving the changes.

C. **Scene Switch:**

Name: Allows the switch to be given a meaningful name. Use the keyboard to enter a name as desired.

Preset Setup: The buttons are factory configured to control Preset 1 - Preset 4 from top to bottom respectively. Use the drop down arrow adjacent to a button to choose one of the 16 available presets to be recalled by this button.

Preset Status: Indicates the currently activated preset.

Raise/Lower Setup: Allows adjustment to the speed at which the dimming level will change as a Raise or Lower button held down.

Rate: Sets the rate at which level change messages are sent from the switch to the dimmer. Recommended setting is 300.

% Change: Sets the amount of change that occurs with each message. A setting of 10 will provide about a 5 second transition time from 0% to 100% while holding down a Raise or Lower button.

Make changes as needed. Touch the **<Accept>** button to save the changes or touch the **<Back>** button to exit WITHOUT saving the changes.

5. **Occupancy Sensors:** Note that regardless of the quantity of sensors installed, the App will only indicate a single sensor with a composite occupancy state for the room.

Name: Allows the sensor to be given a meaningful name. Use the keyboard to enter a name as desired.

Groups: A blue background fill in one of the 16 available groups indicates that this sensor is selected to be a member of this group number. A gray background fill indicates that the sensor is NOT a member of the group. By default, the occupancy sensor is set to be a member of all groups.

State: Indicates the Occupied or Unoccupied state of the room as reported by the occupancy sensor at the time the App screen was accessed. This is read only. Touch the **<Refresh>** button to re-read the occupancy state of the room.

Make changes as needed. Touch the **<Accept>** button to save the changes or touch the **<Back>** button to exit WITHOUT saving the changes.

6. **Daylight Sensor:** Touch to display the **Photocell** set up page. This page allows for the setup of up to 6 zones of daylight harvesting using a single compatible photocell like the RCDP.

Name: Allows the sensor to be given a meaningful name. Use the keyboard to enter a name as desired.

Daylight Level: Indicates the current amount of daylight visible to the daylight sensor. Touch **<Refresh>** at any time to re-read the daylight level.

Sensor Range: Use the pull down to select the range appropriate to the daylight sensor model installed. The standard RCDP daylight sensor is factory set to 3 to 300. This is the nominal default for typical indoor side lighted applications.

Zone #: Use the pull down to select the type of daylight harvesting control to be used for this zone. The available choices are:

A. **None:** Daylight harvesting not enabled. This is the default setting for Zones 2-6.



- B. **ON/OFF Mode:** All controlled lighting will turn OFF based on the settings. The controlled lighting will be OFF as long as there is sufficient daylight to maintain the desired minimum task light level.

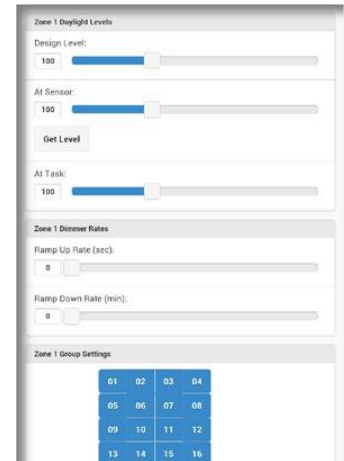
Design Level: The target minimum foot candle level at the task work surface.

At Sensor: Indicates the current amount of daylight visible to the daylight sensor. Touch **<Get Level>** at any time to refresh the daylight level.

At Task: The amount of light in foot candles as read by a light meter placed at the task surface. Take this reading with the indoor lighting turned OFF.

Dead Band (%): Provides a band between ON and OFF to prevent unwanted cycling of the load. Typically a setting of 5% works well.

Make changes as needed. Touch the **<Accept>** button to save the changes or touch the **<Back>** button to exit WITHOUT saving the changes.



- C. **Step Relay Mode:** High, low, OFF switching control based on the Primary/Secondary setting for the controlled relay(s)

- D. **Full Dimming Mode:** Full range dimming in response to daylight.

Design Level: The target minimum foot candle level to be maintained at the work surface. Enter the specified foot candle level.

At Sensor: Indicates the current amount of daylight visible to the daylight sensor. Touch **<Get Level>** at any time to re read the daylight level.

At Task: The amount of light in foot candles as read by a light meter placed at the task surface. Take this reading with the electric lighting turned OFF.

NOTE: Make adjustments to the Design Level until the desired foot candle reading is achieved on the light meter at the task surface.

- E. **Test Mode:** This is the factory default setting for Zone 1. Test mode causes the controlled lighting to react quickly to bright and dim light such as passing the beam of a flashlight across the daylight sensor.

- 7. **Preset Settings:** Touch to display the preset setup page. Use the Preset Select pull down to choose which preset (1 - 16) this button will affect. **Note:** the factory default programming, sets Preset 1 to 100%, Preset 2 to 75%, Preset 3 to 50%, and Preset 4 to 25% for all dimmers. **NOTE:** The “Include” setting determines if this preset will affect the associated dimmer or relay. If the box is not checked, this preset will NOT change this dimmer or relay when activated.

Fade Time: The fade time for transitions between presets can be set between 1 second and 18 hours. The factory default fade time is 5 seconds. Use the sliders or type in the box to change the fade time for this preset.

Dimmers: Use the slider or type in the box to set the desired dimmer level for each dimmer.

Relays: Use the controls to set if the relay will be turned ON or OFF when this preset is activated.

After all settings have been selected, touch the **<Save>** button at the top of the screen. A **<Test>** button is also provided at the top of the screen. This button will activate the current preset exactly as if the preset button on the actual switch is touched.

NOTE: Touching the **<Test>** button immediately after saving a preset will have no affect since the lighting will already be set to the levels defined for the current preset.

