LEVITON®

GreenMAX DRC Room Control System FAQs

Q **How does the Sapphire Touch Screen interact with the GreenMAX Room Controllers?**

A Sapphire can be used to control any light in the system. A Sapphire can be placed at one location controlling lights in another space (for example, in a hospital at a nurse's station controlling lights in patient rooms).

Q **Can the GreenMAX Room Control System accomplish shade control?**

A Simple control of shades can use the 0-10V Smart Pack to trigger contact closure input of a shade control system indicating open/close or preset status. Other more advanced methods using multiple contact closures, alternate forms of signals or direct Mechoshade interface can be provided as needed. Contact Leviton EMC&A Quotations to facilitate a system design.

Q **Is the analog input device what is necessary to connect standard low voltage occupancy sensors, photocells, etc.?**

A Yes. The AI can be used to interface to any 24V occupancy sensor or 0-10V analog photocell. In addition, the device can receive a contact closure to trigger channels, groups, act as a security or fire alarm system interface, or trigger a load shed response from a demand response interface.

Q **Which keypads are utilized to manually dim/switch lights and recall scenes?**

A GreenMAX DRC keypads (DRKDN models) are used for manual room control.

Q **What wireless encryption is used?**

A The GreenMAX DRC Room Control System uses AES 128 encryption on both wireless networks. There is no open communication; it is all secured encryption.

Q **How do you tie a GreenMAX Relay Control Panel to a GreenMAX DRC Room Control System?**

A GreenMAX relays can be used in a GreenMAX DRC Room Control System. Note that those relays, when configuring, will be put in a behavior that tells the panel to do nothing with them other than let them be controlled from across the network. The GreenMAX DRC room controllers will be in charge of those relays and the NPU will just ignore them. The relays will look like Smart Packs to the GreenMAX DRC system.

Q Can a GreenMAX control system and a GreenMAX DRC system coexist on the same LumaCAN network?

A Yes, however they are independent systems. A GreenMAX HDU will be used to program the GreenMAX panel and the GreenMAX DRC App to program the GreenMAX DRC Room Control System. Even if they are on the same LumaCAN cable, they operate as two independent systems. GreenMAX is commonly used for panel scheduling for applications such as landscaping and hallway lighting, and GreenMAX DRC is used for rooms that don't have crossover with the other applications.

This works best when each controller is fully in charge of its own applications and they do not comingle, which becomes confusing. Note that there is no particular benefit to running GreenMAX and GreenMAX DRC on the same LumaCAN network, except in the case of having a Sapphire Touchscreen front-end controlling the entire building.

Q How do you network the GreenMAX DRC Room Control System together with GreenMAX DRC?

A Connect all of the room controllers via the app and network via wifi.

Q How do you network the GreenMAX DRC Room Control System with BACnet?

A BACnet is used for control from BMS and LumaGraphics interfaces. The NP00G is the BACnet interface for the GreenMAX DRC Room Control System, which is a LumaCAN to BACnet interface. Add that solution to the network, and then the system has an IP connection going out to the BACnet network. The system shows up to the BACnet network with every load (sensor/button) as an analog input that gets full exposure to the network. Every group of 250 LumaCAN nodes has a BACnet interface to the system.

Q Is it possible to set address through the app or does that have to be done at the dip switches?

A Network addresses have to be set at the dip switches. Channels can be set from anywhere on the network.

Q What is the GreenMAX DRC Room Control System's operation out-of-the-box? What happens before the app is used to commission the system?

A The only action that happens is the load turns on.

Q Is it a good idea to try and run a parallel WiFi system to the building's existing WiFi?

A As a general rule, no. It results in negative performance for all systems as a result of having two WiFi networks in a facility. It is a standard Ethernet and WiFi best practice to create segmented networks. For example, in facilities that offer guest WiFi access. Every time you log into that guest network, it forms a network that is separate from every other guest network in a building. Users cannot see or talk to one another, but they are on the same WiFi system.

Q Does the GreenMAX Room Control System have a Plenum rating?

A All components are UL2043 Plenum Rated as appropriate to their application. To meet some local requirements, such as Chicago Plenum, installation into a metal enclosure may be required.