

GreenMAX® DRC System Features



The GreenMAX® DRC Room Control System offers a fully distributed room control system, with each room operating independently of others—no dependence on network processors or centralized controllers. This revolutionary system is fully configurable via the GreenMAX DRC app for smart devices, and can be used to comply with IECC, ASHRAE 90.1, and 2019 Title 24, Part 6 occupancy/vacancy sensing, 0-10V dimming, daylight harvesting, partial-ON, partial-OFF, demand response and receptacle control requirements.

GREENMAX DRC APP

Wirelessly commission, configure, control, monitor and provision the GreenMAX DRC system using the Bluetooth-enabled GreenMAX DRC App designed for an Android or iOS smart device or other Bluetooth-enabled devices within a 30' range.

SYSTEM FEATURES

- Programmable from WiFi network using any Android or iOS smart device and GreenMAX DRC app
- Connection to building WiFi network recommended but optional; direct connectivity from app is supported
- Multi-location switching
- Occupancy detection and response
 - Multiple occupancy zones supported
 - Auto-ON/auto-OFF
 - Manual-ON/auto-OFF
 - Partial-ON, partial-OFF
 - (2) vacancy time-outs
 - Auto-ON functionality:
 - Go to fixed level
 - Restore previous level
 - Restore daylighting target
- Multi-zone daylight harvesting
 - Closed loop daylight harvesting
 - Configurable dead band
 - Room daylight harvesting has two operating modes
 - CAP at Target—lights will never go brighter than the programmed target level
 - Override Allowed—lights can temporarily override the daylighting target
 - When the lights are in override, they will remain so until the user puts them in daylighting mode again by pressing the “ON” button, the user adjusts the level, or the override timer expires
 - Upon expiration of the override timer, the lights will revert to the daylighting target value
 - Daylighting timer can be set from 1 minute to xx hours or to infinite
- Programmable Digital Keypad buttons—each soft button is programmable
 - Execute Scene—collection of groups at level with fade time, does not need to be all lights in room
 - Room ON/OFF—all lights assigned to room controller ON or OFF. ON level and fade time are configurable
 - Toggle Room—turn entire room ON/OFF via a single button. ON level and fade time are configurable
 - Toggle Group—turn a single group ON/OFF via a single button. ON level and fade times are configurable
 - Raise/Lower—each button press increases or decreases the lights. Holding the button will cause the lights to raise (or lower) until the button is released. Raise/lower can impact any of the following:
 - Entire room
 - Single group
 - Last selected scene

Leviton Manufacturing Co., Inc. Lighting & Controls

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SYSTEM FEATURES (CONTINUED)

- User Access Controls—functionality configurable based on which user is currently logged into the GreenMAX DRC App. Each user can be granted the following privileges:
 - Permissions definable at each level in the building hierarchy (project, building, floor, area, room)
 - Occupant Access
 - View room access
 - Change level of all groups
 - Execute scenes
 - Scene Editor
 - Change scenes
 - Installer
 - Create new rooms, add new devices
 - Commissioner
 - All functions of Occupant Access, Scene Editor, and Installer
 - Project Admin
 - Manage users and permissions

CURRENT DRAW	
Low Voltage Room Controller (DRC00-0L0)	435-210mA
Digital Switch (DRKDN)	50-25mA
Digital Sensor (OSR05-ICW)	70-35mA
2-Port AI (DRID0)	35mA + connected device consumption
LumaCAN to DALI Gateway (DRCDD)	60mA
Phase Control Dimmer (DRDDP-A40)	200mA

ROOM CONTROLLER CAPABILITIES	
Max # of Devices	100 per Room Controller. A device is: <ul style="list-style-type: none"> • Controlled load (smart pack or single channel of a phase control dimmer) • Occupancy sensor (digital or analog) • Keypads (all buttons count as single device) • Remote sensor • Remote keypads • DALI device (input or output) • DMX channel
Max # of Groups/Zones	127 per Room Controller. Included is: <ul style="list-style-type: none"> • Occupancy zone • Daylighting zone • User group
Max # of Scenes	127 per Room Controller
Max # of LumaCAN Nodes	250
SYSTEM CAPABILITIES	
Max # of Room Controllers	No limit
Max # of Controlled Channels	32,768 per building
Max # of Points per BACnet/Interface	1,024 A point is any of the following: <ul style="list-style-type: none"> - Dimmer or relay ON/OFF/Level control - Sensor or contact closure input - Metrology data—each metric represents a single point
LumaCAN Network—Max # of Nodes	LumaCAN network input and output, RJ45 connectors
LumaCAN Network—Max Run Length	1600 ft between repeaters; up to 10,000 ft end-to-end when using repeaters
LumaCAN Topology	Daisy-chain; home run supported when using 6-port repeater

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Visit our Website at: www.leviton.com/greenmaxdrc

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