Project	Catalog #	Туре	
Prepared by	Notes	Date	



# Greengate

## **Room Controller**

**Product Certification** 

**Product Features** 

Provides code compliant automatic lighting, emergency and plug load control

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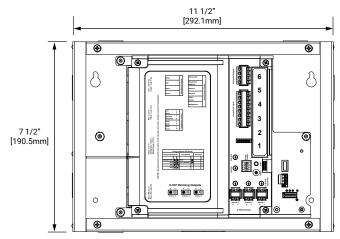
### **Top Product Features**

The system includes three relays and up to three 0-10 VDC dimming outputs to control compatible dimmable ballasts. Providing a
code compliant automatic lighting, emergency and plug load control out-of-the-box when connected to Room Controller low voltage
devices. Network up to 254 ControlKeeper and Room Controller Network panels.

BAA

- Click & Go ready, RJ45 connections
- · Preconfigured for automatic functionality upon power-up
- Manual or Automatic On, bi-level, tri-level and dimming control strategies
- · Integral Demand Response input with four levels of preconfigured energy reduction
- · Built in tubular lighting control with preconfigured wallstation controls
- · Options to meet Buy American Act requirements

### **Dimensional and Mounting Details**







### **Order Information**

#### **Catalog Number**

Domestic Preferences (1)	Catalog Number	Description	Voltage	Ballast/Incandescent
[Blank] =Standard	RC3-PL	3 Relays, Plenum	120-277 VAC, 50/60Hz	Maximum Combined Load 20A
	RC3D-PL	3 Relays, 3 0-10V dimming, Plenum	120-277 VAC, 50/60Hz	Maximum Combined Load 20A
	RC3D-PL-CP	3 Relays, 3 0-10V dimming, Chicago Plenum Room Controller	120-277 VAC, 50/60Hz	Maximum Combined Load 20A
	RC3DE-PL-CP	3 Relays, 3 0-10V dimming, UL924, Chicago Plenum Room Controller	120-277 VAC, 50/60Hz	Maximum Combined Load 20A
	RC3DEHC-PL-CP	3 Relays, 3 0-10V dimming, UL924 for healthcare, Chicago Plenum Room Controller	120-277 VAC, 50/60Hz	Maximum Combined Load 20A
[Blank] =Standard	RC3DE-PL	3 Relays, 3 0-10V dimming, UL 924, Plenum	120-277 VAC, 50/60Hz	Maximum Combined Load 20A
BAA = Buy American Act	RC3DEHC-PL	3 Relays, 3 0-10V dimming, UL 924 for healthcare, Plenum	120-277 VAC, 50/60Hz	Maximum Combined Load 20A

#### Note

(1) Only product configurations with this designated prefix are built to be compliant with the Buy American Act of 1933 (BAA). Please refer to <u>DOMESTIC PREFERENCES</u> website for more information. Components shipped separately analyzed under domestic preference requirements.

#### **Additional Options**

#### **Catalog Number**

Catalog	Description	
GGRC-COUPLER	RJ45 Coupler	
GGRC-SPLITTER	RJ45 Splitter	
GGRJ45-006-G	RJ45 cables 6 inches	
GGRJ45-03-G	RJ45 cables 3 feet	
GGRJ45-10-G	RJ45 cables 10 feet	
GGRJ45-25-G	RJ45 cables 25 feet	
GGRJ45-50-G	RJ45 cables 50 feet	
GGRJ45-100-G	RJ45 cables 100 feet	
GGRJ45-10P-G	RJ45 cables 10 feet plenum rated	
GGRJ45-25P-G	RJ45 cables 25 feet plenum rated	
GGRJ45-50P-G	RJ45 cables 50 feet plenum rated	
GGRJ45-100P-G	RJ45 cables 100 feet plenum rated	
Note Please refer to the Room Controller page on our website for more information. Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information.		

### **Product Specifications**

#### Mechanical

Size: 11 1/2" W x 7 1/2" H x 2 1/4" D (292.1mm x 190.5mm x 57.15mm) Environment:

- Operating temperature: 32°F to 104°F (0°C to 40°C)
- For indoor use only

#### Electrical

Input Requirements:

• 120-277 VAC 50/60Hz

Maximum 20A combined load per Room Controller

Ballast load: 20A @ 120/277 VAC (LED) Incandescent load: 15A @ 120 VAC

Motor load: 1HP @ 120 VAC

LED Drivers: Requires isolated LED drivers for optimal performance

LED, Ballast or Incandescent Load: 3A

#### Class 2 Dimming Output:

0-10 VDC, sinks up to 100mA per (40 µA max per circuit leakage to line)
Each 0-10V output supports up to 50 ballasts / drivers that draw

the standard 2mA each Emergency Output (RC3DE/RC3DEHC only): UL 924

Installation: Install in accordance with National Electrical Code and any other codes that may apply

#### Standards/Ratings

- UL Approved
- UL 508 Listed
- UL 924 Listed
- cULus Listed

#### Warranty

Five year warranty standard



### **Overview**

The Room Controllers are connected to a 120 VAC through 277 VAC 20 Amp circuit to provide unit power and input power to the individual relays. The wallstations, occupancy sensors, daylight sensors and receptacle control devices connect via QuickConnect cables (ordered separately) providing a Class 2 connection. Upon power up the preengraved wallstation automatically controls the On/Off relays adjust the dimming outputs. The daylight sensor will immediately adjust the lighting levels based on natural light.

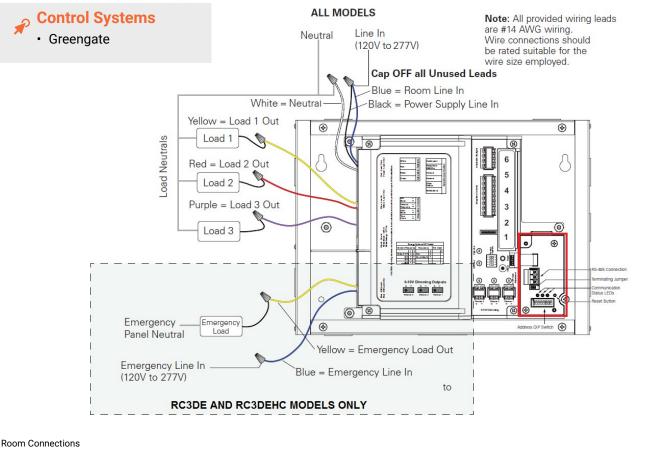
The line voltage section of the Room Controller provides the installing contractor space to make all line voltage connections and direct conduit access, reducing the need for additional junction boxes, while providing easy access to line voltage circuits. Low voltage devices are connected using Cat5 cables (ordered separately).

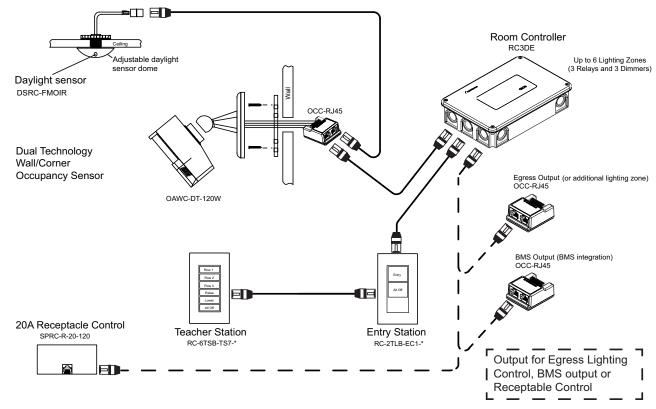
UL 924 relay is provided on some units for automatic emergency lighting control. The UL 924 relay automatically tracks with output 1 and can be connected to any of the three 0-10V dimmers. The UL 924 relay automatically closes and disconnects the 0-10V control open loss of normal power providing adequate egress lighting control. Ladderless maintenance testing of the UL 924 relay can be achieved by pressing the ALL OFF button four times.



### Wiring Diagrams

Sample Wiring Diagram







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Specifications and dimensions subject to change without notice.