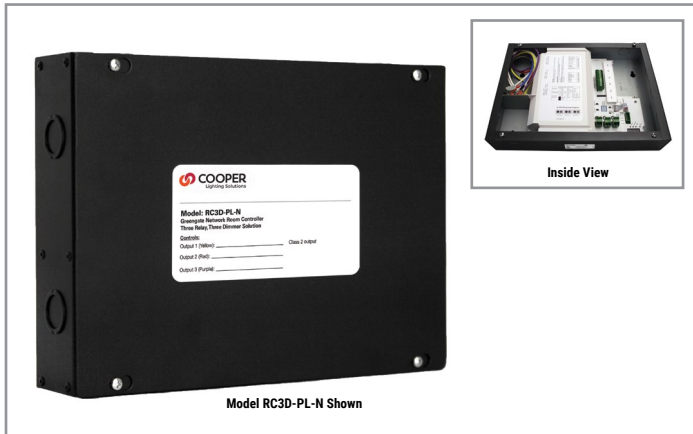


Project		Catalog #		Type	
Prepared by		Notes		Date	



Greengate

Room Controller Network

Provides code compliant automatic lighting, emergency and plug load control

Interactive Menu

- Order Information page 2
- Additional Resources page 3
- Wiring Diagrams page 4
- Product Warranty

Product Certification



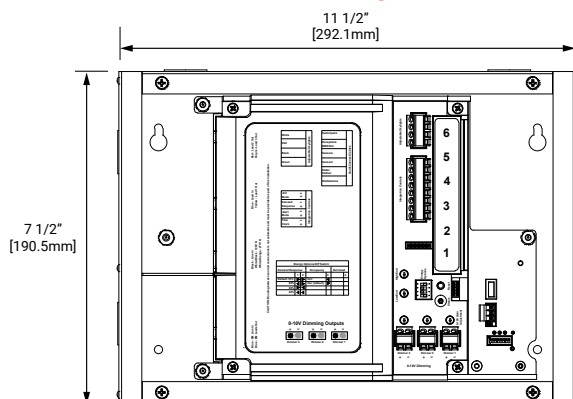
Product Features



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.
- Click & Go ready, RJ45 connections
- Preconfigured for automatic functionality upon power-up
- Manual or Automatic On, bi-level, tri-level and dimming control strategies
- Local and network Demand Response input for automatic energy reduction
- Each 0-10V control supports up to 50 dimming drivers sourcing 2mA
- Integral pillow speaker connections for GPCS (RC3DEHC-PL-N)
- Integral Solatube® connection for classrooms
- Provides multi-level corridor lighting control
- Guaranteed compatibility with Cooper Lighting LED and 0-10V fluorescent fixtures
- Ladderless UL 924 Emergency Mode testing (RC3DE & RC3DEHC)
- Network up to 254 ControlKeeper and Room Controller Network lighting control panels
- Options to meet Buy American Act requirements

Dimensional and Mounting Details



additional product diagrams

Order Information

Catalog Number

	Catalog Number	Description	Voltage	Ballast/Incandescent
[Blank] =Standard	RC3-PL-N	3 Relays, Plenum, Network Room Controller	120-277 VAC, 60Hz	Maximum Combined Load 20A
	RC3D-PL-N	3 Relays, 3 0-10V dimming, Plenum, Network Room Controller	120-277 VAC, 60Hz	Maximum Combined Load 20A
	RC3DEHC-PL-N	3 Relays, 3 0-10V dimming, UL 924 for healthcare, Plenum, Network Room Controller	120-277 VAC, 60Hz	Maximum Combined Load 20A
	RC3D-PL-N-CP	3 Relays, 3 0-10V dimming, Chicago Plenum Network Room Controller	120-277 VAC, 60Hz	Maximum Combined Load 20A
	RC3DE-PL-N-CP	3 Relays, 3 0-10V dimming, UL924, Chicago Plenum Network Room Controller	120-277 VAC, 60Hz	Maximum Combined Load 20A
	RC3DEHC-PL-N-CP	3 Relays, 3 0-10V dimming, UL924 for healthcare, Chicago Plenum Network Room Controller	120-277 VAC, 60Hz	Maximum Combined Load 20A
[Blank] =Standard BAA = Buy American Act	RC3DE-PL-N	3 Relays, 3 0-10V dimming, UL 924, Plenum, Network Room Controller	120-277 VAC, 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 [DOMESTIC PREFERENCES](#) website for more information. Components shipped separately may be separately analyzed under domestic preference requirements.

Room Controller Upgrade Options

Catalog Number

Catalog	Description
RCNN	Room Controller Network Node, upgrades stand alone Room Controller to the network option
RPTR	Network Repeater is needed every 32 network panels and/or to extend the lighting network beyond 4000'

Additional Options (sold separately)

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 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

System Includes

- UL listed - UL 508 standard, UL 924 Optional
- NEMA 1 enclosure
- 12 Zone or Scene Wallstations
- Programmable Scene control
- Open loop three zone daylight sensor
- Time clock input
- Occupancy/Vacancy Sensor Connection
- Occupancy based receptacle control
- Occupancy based HVAC output
- RS-485 network standard
- Software programmable

Accessories (sold separately)

- Keeper Enterprise Software
- CEPC-1-D (UL 924 0-10V Accessory)
- Ethernet Interface Module
- EISSBox OpenADR device
- Receptacle Rated Switchpack
- Zone Wallstations
- Scene Wallstations
- Dimming Slider
- Daylight Sensor
- Occupancy Sensors
- Input/Output Device
- Personal Remote
- QuickConnect Cable
- Network Repeater (RPTR)
- BACnet interface (BMSPPro)

Standards/Ratings

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

Warranty

Five year warranty standard

Overview

The Room Controller products can be networked together to expand their out of the box capabilities. Perfect for projects that have multiple rooms that have similar requirements. The Room Controllers can be installed and provide control capabilities on day one without requiring network programming. As the project schedule allows network programming can be completed to provide centralized control and user training.

Installation

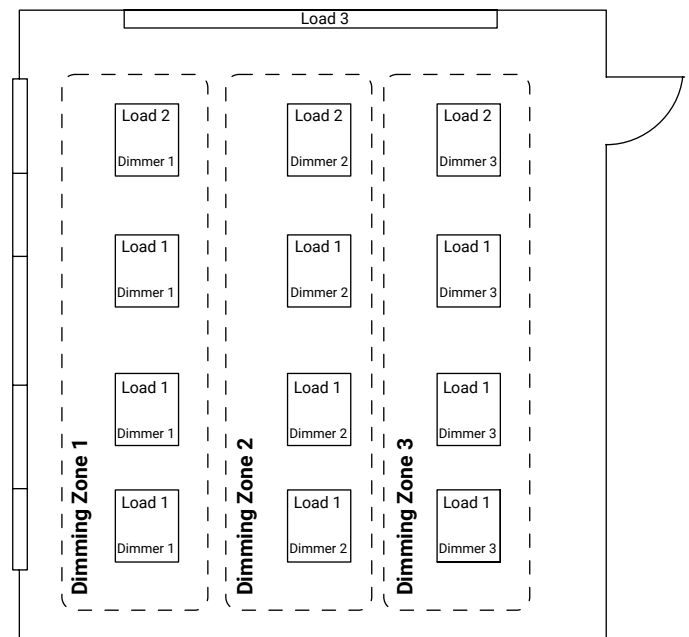
The line voltage section of the Room Controller provides the installing contractor space to make all line voltage connections and direct conduit access, reducing the need for additional junction boxes, while providing easy access to line voltage circuits. Low voltage devices are connected using Cat5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

ControlKeeper and Room Controller Network lighting control panels are joined together using a RS-485 network cable sold separately (GG9841, GG9842, GG89841P, GG89842P).

Include the Network Repeater to provide the ability to extend the lighting control network beyond the specified 4,000 feet or more than 32 panels.

Sample Room Layout

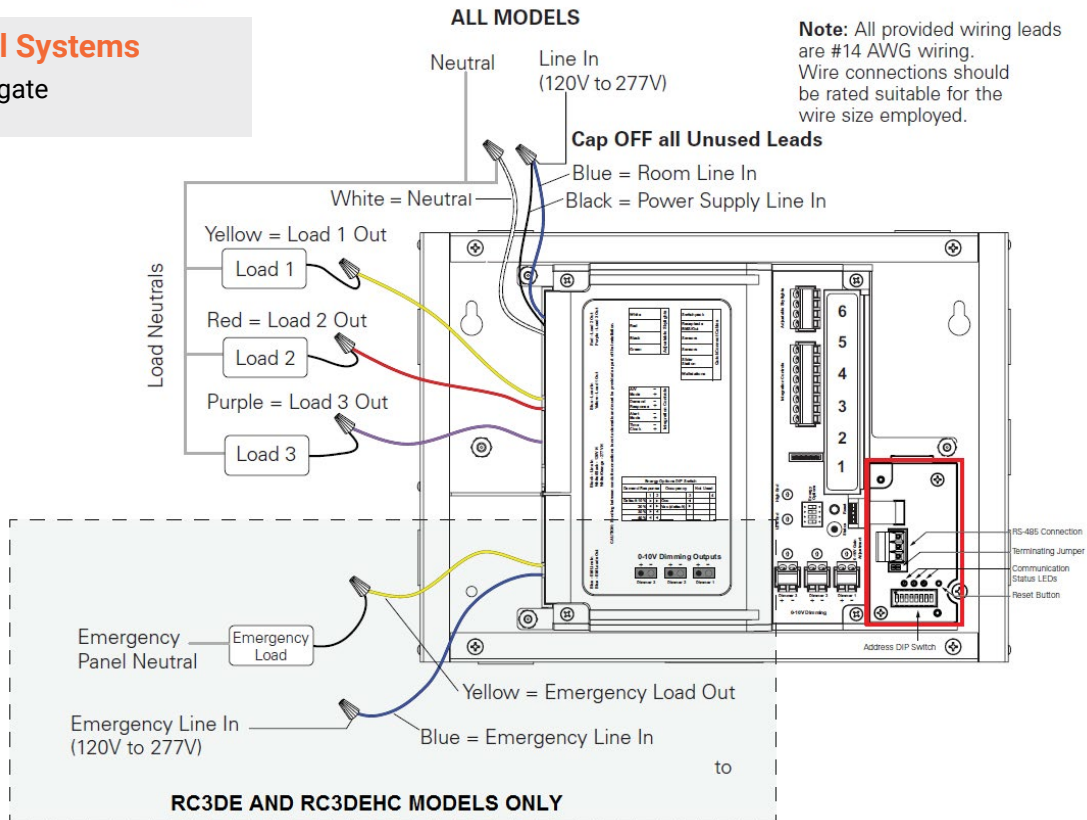


Wiring Diagrams

Sample Wiring Diagram

Control Systems

- Greengate



Room Connections

