Room Controller
Our Distributed Controls Solutions

Field Deployable Controls - Less wires & ease of installation

Dialog® Room Controller is a versatile solution for stand-alone or networked lighting control applications. Douglas Lighting Controls® brings industry leading controls experience to provide you with the flexibility, value, and engineering expertise that you demand. The Dialog Room Controller, manages classrooms, offices, conference rooms or small rooms to meet local and national lighting codes such as ASHRAE 90.1 (2016), California Title 24 (2020 and IECC 2018).

The Dialog Room Controller has two components – the Room Controller and the UL924 Relay Expansion Pack. The Room Controller is the main device, which includes two or four relays, two or four independent dimming channels and connectivity to a Douglas Lighting Controls Dialog or BACnet network. The Relay Expansion Pack provides two additional relays that are certified for emergency lighting operation or can be used for additional lighting loads. It can be easily added by clipping it to the bottom of the room controller and connecting to the appropriate loads.

Dialog Room Controllers

FEATURES

- Configured “kits” for specific room design and lighting control
- Plug ‘N Control up to 12 different loads (lighting, receptacle, emergency lighting)
- Plug ‘N Control up to 12 dimming channels independent of lighting loads
- Wiring verification via manual control buttons
- On-device color coded labels and wiring instructions
- Installation directly to junction box
- Low cost, simple to install, polarity neutral 2-wire network
- Networkable with Dialog or BACnet IP
- UL and CSA certified
- UL924 certified for emergency lighting

ASHRAE 90.1 Compliant
Easy Installation

Dialog Room Controller is designed for easy installation with simple no polarity 2 wire control wiring. The units are available in pre-configured “rooms” that arrive to you fully commissioned – just Plug ‘N Control™ your room! Kits can include the Room Controller, the UL924 Expansion Pack, occupancy/vacancy sensors, daylight sensors, and switch stations based on the application. The Dialog Room Controller can also be used in a centralized Dialog system to create a globally controlled network that is faster to install, requires less long wire/conduit runs, and provides room-by-room testing before complete system start-up. All wires and connectors are color coded for quick identification and time saving completion of the installation.

DIMENSIONS

For product ordering information please see website.

SIMPLE INSTALLATION

- Configured “kits” for Plug ‘N Control right out of the box
- ½” chase nipples for junction box installation
- Color coded line voltage wires
- Color coded labels that match wire colors
- Push-connect low voltage terminal blocks
- Factory programmed for out-of-the-box Plug ‘N Control™
- Polarity neutral, 2-wire (#18AWG) low voltage network

Neutral not shown - these illustrations are for reference purposes only. For site installations, please review Kit wiring diagrams and follow local and national electrical codes.
Dialog Room Controller is designed for easy installation with simple no polarity 2 wire control wiring. The units are available in pre-configured “rooms” that arrive to you fully commissioned – just Plug ‘N Control™ your room! Kits can include the Room Controller, the UL924 Expansion Pack, occupancy/vacancy sensors, daylight sensors, and switch stations based on the application.

The Dialog Room Controller can also be used in a centralized Dialog system to create a globally controlled network that is faster to install, requires less long wire/conduit runs, and provides room-by-room testing before complete system start-up. All wires and connectors are color coded for quick identification and time saving completion of the installation.

Both the 2-Pole (WRC-4222) and the 4-pole (WRC-4244) version of the room controller allows for configurations via a PC application to enable the addition of room controllers connected to the downstream of a main controller.
STAND-ALONE ARCHITECTURE: Classroom example

FUNCTIONALITY
- Lighting control (including emergency lighting)
- Receptacle control
- Closed loop dimming
- Manual control
- Control up to twelve loads (lights, receptacle, emergency lights)
- Control from 2 to 4 0-10v dimming zones (independent of light zones)
- Demand response ready
- Daylighting Dim-to-OFF

ADVANCED STAND-ALONE CAPABILITIES: CAFETERIA

FUNCTIONALITY
- Lighting control (including emergency lighting)
- Receptacle control
- Closed loop dimming
- Manual control
- Control up to twelve loads (lights, receptacle, emergency lights)
- Control up to twelve 0-10v dimming zones (independent of light zones)
- Demand response ready
- Programmable with a device specific desktop application via Ethernet.
- Native BACnet
- Daylighting Dim-to-OFF
- Up to 4 daylight sensors each with their own Primary and Secondary control.
The “DRC Configuration Application” allows the owner to connect to a WRC-4244 or WRC-4222 to adjust the parameters of the rooms switch groups, scenes, and daylight harvesting settings with a simple user-friendly interface. These configurations can apply to all 12 relays and dimmers connected to the main room controller. When rooms are duplicated, a copy-and-paste feature is included to save time and money.

Ethernet Connection

- Ethernet Cat6
- Dialog Room Controller

Daylight Harvesting

- Primary & Secondary Zones
- Minimum Dim Values
- Dim-to-OFF Functionality

Preset Configuration

Group Configuration
Energy Management Ready
A lighting system is one of the largest energy users in a building. To optimize the lighting system, facility managers have relied on code requirements and past experience to set control strategies. What if there was a way to optimize the system by locating system inefficiencies and providing an easy way to change them?

CheckLight™ from Douglas Lighting Controls® is an energy management platform that helps optimize the energy use of your lighting system. Facilities that requirement an Energy Management system can use our CheckLight platform to gather data from CheckLight equipped devices to measure, report, and control their lighting system from a web-based application.

BACnet Connectivity

DIALOG SYSTEM CONNECTIVITY
- Full Dialog Features and Functionality
- Global Control functions such as Time Clock, Master Switching, etc.
- Centralized BACnet access

[Diagram showing BACnet connectivity]
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