“The Dialog Room Controller* is the right product...

to provide the flexibility and cost savings needed in today's competitive lighting controls market. It's designed for stand-alone room applications, but can also be networked to a Dialog controller for centralized control of an entire floor or building.”

Brad Stevenson - Vice President, Sales
Douglas Lighting Controls

* Patent Pending
Dialog Room Controller introduces specifiers and contractors to a versatile solution for stand-alone or networked lighting control applications. The Dialog Room Controller, manages classrooms, offices, conference rooms or small rooms to meet local and national lighting requirements such as ASHRAE 90.1-2010, California Title 24, and New York Local Law 48.

The Dialog Room Controller incorporates 2 sections – the Room Controller and the UL924 Relay Expansion Pack. The Room Controller is the main device and it includes 4 relays, 4 independent dimming channels and the capability to connect to a Douglas Lighting Controls Dialog or BACnet network. When the need for emergency lighting control or additional relays arises because of room size or lighting requirements, the Room Controller UL924 / Relay Expansion Pack is easily added by clipping it to the bottom of the room controller and connecting to the appropriate loads. The expansion pack provides two additional relays that are certified for emergency lighting operation or can be used for additional lighting loads.

Dialog Room Controller is offered as in a packaged kit for specific room applications. Each kit is Plug ‘N Control™ ready out of the box for fast installation. Kits can include the Room Controller, the UL924 Expansion Pack, occupancy sensors, switch stations, and daylight sensors depending on the application.

An added feature is 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.
DIMENSIONS

2.1” (54mm)

5.7” (144mm)

6.1” (155mm)

4.3” (109mm)

6.3” (159mm)

WEIGHT 1.15lbs (0.52kg)
FEATURES

- Circuit Test Buttons
- Status & Locator LED
- Labeled Low Voltage Wiring Compartment
- RJ45 Port for BACnet IP Connectivity
- 1/2 Inch Chase Nipples
- Color Coded Wires
- Push-Connect Dimming and Data Terminals
- Wiring Instructions
- Easy Break Wiring Knockouts & Access Tabs
- Clip Connect Relay Expansion/UL924 Emergency Lighting Pack
- 1/2 Inch Chase Nipples
- Wire Color Matching Relay Labels
Dialog Room Controller is designed for versatility. There are two common architectures for the Dialog Room Controller: Stand-alone or Networked.

**STAND-ALONE ARCHITECTURE**

In this example, Dialog Room Controller supports the requirements of a single classroom by taking commands from wall switches and sensors. The functionality of the lighting in this classroom is independent of lighting controls in other classrooms or across the facility. The Dialog Room Controller can be connected to a BMS/EMS via BACnet IP to receive demand response commands, share information on occupancy status, provide central time control, and allow for energy monitoring.
In this example the Dialog Room Controller supports the requirements of one classroom by taking commands from wall switches and sensors in that classroom. Additionally, each Room Controller is networked to a centralized Dialog LCU (lighting control unit) through a low cost, polarity neutral, 2-wire data line. The LCU is programmed with schedules for controlling lights across the entire facility. Demand response functionality can also be initiated across the entire network.
in identifying market challenges and then developing solutions that solve those challenges. We designed the Dialog Room Controller to eliminate wiring complications, ensure code compliance, simplify control systems, and improve the commissioning experience - common challenges that are found across our industry."

Rob Mahaffey, Director Product Market Development
A key advantage of the Dialog Room Controller is the "kit" system. With many office and classrooms having common lighting control requirements, standardizing kits help make project design and installation easier. For extra cost and installation time saving, kits 9, 10, 15 are designed to control 2 similar rooms with only one Room Controller.

1. Find a classroom or office layout that best suits your application on the following pages.
2. Select the kit part number from the 4 options listed on the specific Kit page.

**MODIFICATIONS:**
In some cases, specific applications may need kit modifications. For these instances, first find the kit that best suits your application, then review the modifications available below. Then call or email us.

- Removal of the Occupancy/Vacancy Sensor
- Removal of the Interior Daylight Sensor
- Removal of the Entry Stations
- Removal of the Teachers Station

**SENSOR ADDITIONS**
Occupancy sensors can be added to a total of 4 sensors per room controller.

**SWITCH ADDITIONS**
Duplicate switches can be added to a total of 6 switch stations per room controller.

**TITLE 24 DIMMING**
Switch additions for Title 24 requirements, dimming switches can be added to a total of 6 switch stations.
### Classroom
- Windows Perpendicular to Teaching Wall
- Occupancy Control (Auto ON /Auto OFF)
- Daylight Control (2 zones)
- Light Control (3 zones)
- Receptacle Control
- Dimming Control (4 zones)
- Entry Station (General ON/ALL OFF)
- Teacher Station (Teaching, General ON, A/V, Quiet Mode)

### Options
- Additional Occupancy Sensors (4 max.)
- Vacancy Control (Manual ON / Auto OFF)
- Extended Lens range: 54’ diameter (standard 28’)

### Operation
- Upon Entry Occupancy sensor switches lights and receptacles ON
- Daylight Sensor maintains light level based on light level pre-set
- Entry Station and Teacher Station provide manual control of lights
- Upon Exit and after Occupancy sensor times out, lights and receptacles switched OFF
- Lights can be switched OFF manually at Entry Station and Teacher Station
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.
Classroom with Emergency Lighting
- Windows Perpendicular to Teaching Wall
- Occupancy Control (Auto ON / Auto OFF)
- Daylight Control (2 zones)
- Light Control (3 zones)
- Receptacle Control
- Dimming Control (4 zones)
- Entry Station (General ON / ALL OFF)
- Teacher Station (Teaching, General ON, A/V, Quiet Mode)

Emergency Lighting Control (2 zones Orange & Grey) (Requires UL924 Relay Expansion Pack)

Options
- Additional Occupancy Sensors (4 max.)
- Vacancy Control (Manual ON / Auto OFF)
- Extended Lens range: 54" diameter (standard 28")

Operation
- Upon Entry Occupancy sensor switches lights and receptacles ON
- Daylight Sensor maintains light level based on light level pre-set
- Entry Station and Teacher Station provide manual control of lights
- Upon Exit and after Occupancy sensor times out, lights and receptacles switched OFF
- Lights can be switched OFF manually at Entry Station and Teacher Station
- During power failure UL924 listed relays are automatically switched ON by back-up power source switching designated emergency lights ON and to full-bright. Emergency lights remain ON with all controls disabled until primary power is restored.
### Classroom + Emergency Lighting Schematic

- **Classroom Front**
  - Relay 1
  - Dim 1
  - Dim 4
  - Dim 3
  - Dim 2
  - Whiteboard Light (Relay 3)
  - Rear EM Light (Relay 6)
  - EM Expansion (WUL-3924)

- **Classroom Rear**
  - Relay 2
  - Dim 1
  - Dim 2
  - Dim 4
  - Dim 3
  - Front EM Light (Relay 5)
  - Emergency Lighting Control (2 zones Orange & Grey)

- **Teacher Station**
  - Teaching, General ON, A/V, Quiet Mode

- **Entry Station**
  - General ON/ALL OFF

- **Occupancy Sensor**
  - (up to 4)

- **Daylight Sensor**
  - (up to 2 zones)

- **Primary Daylight Zone**
  - Secondary Daylight Zone

- **Lighting Load 1**
  - Lighting Load 2
  - Lighting Load 3
  - Lighting Load 4

- **Receptacle(S) Load 4**
  - Receptacle(S) HOT

- **Lighting Load 5**
  - Lighting Load 6

- **Lighting HOT**

- **NEUTRAL**

- **DRC01PS-1X11-12-E**
- **DRC01PS-1S11-12-E**
- **DRC01PS-1S31-12-E**
- **DRC01PS-1X31-12-E**

- **Dialog Room Controller**
  - WRC-3160
  - BACnet IP or Dialog Network
  - Entry Station

**Options**
- Additional Occupancy Sensors (4 max.)
- Vacancy Control (Manual ON / Auto OFF)
- Extended Lens range: 54' diameter (standard 28”)
- Windows Perpendicular to Teaching Wall
- Occupancy Control (Auto ON / Auto OFF)
- Daylight Control (2 zones)
- Light Control (3 zones)
- Receptacle Control
- Dimming Control (4 zones)
- Entry Station (General ON/ALL OFF)
- Teacher Station (Teaching, General ON, A/V, Quiet Mode)
- Emergency Lighting Control (2 zones Orange & Grey)

**Operation**
- Upon Entry Occupancy sensor switches lights and receptacles ON
- Daylight Sensor maintains light level based on light level pre-set
- Entry Station and Teacher Station provide manual control of lights
- Upon Exit and after Occupancy sensor times out, lights and receptacles switched OFF.
- Lights can be switched OFF manually at Entry Station and Teacher Station
- During power failure UL924 listed relays are automatically switched ON by back-up power source switching designated emergency lights ON and to full-bright. Emergency lights remain ON with all controls disabled until primary power is restored.

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**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.**
KIT #3

Classroom
- Windows Opposite to Teaching Wall
- Occupancy Control (Auto ON /Auto OFF)
- Daylight Control (2 zones)
- Light Control (3 zones)
- Receptacle Control
- Dimming Control (3 zones)
- Entry Station (General ON/ALL OFF)
- Teacher Station (Teaching, General ON, A/V, Quiet Mode)

Options
- Additional Occupancy Sensors (4 max.)
- Vacancy Control (Manual ON / Auto OFF)
- Extended Lens range: 54’ diameter (standard 28’)

Operation
- Upon Entry Occupancy sensor switches lights and receptacles ON
- Daylight Sensor maintains light level based on light level pre-set
- Entry Station and Teacher Station provide manual control of lights
- Upon Exit and after Occupancy sensor times out, lights and receptacles switched OFF
- Lights can be switched OFF manually at Entry Station and Teacher Station
For site installations, please review Kit wiring diagrams and follow local and national electrical codes.
Classroom with Emergency Lighting

- Windows Opposite to Teaching Wall
- Occupancy Control (Auto ON / Auto OFF)
- Daylight Control (2 zones)
- Light Control (3 zones)
- Receptacle Control
- Dimming Control (3 zones)
- Entry Station (General ON / All OFF)
- Teacher Station (Teaching, General ON, A/V, Quiet Mode)
- Emergency Lighting Control (2 zones Orange & Grey) (Requires UL924 Relay Expansion Pack)

Options

- Additional Occupancy Sensors (4 max.)
- Vacancy Control (Manual ON / Auto OFF)
- Extended Lens range: 54" diameter (standard 28")

Operation

- Upon Entry: Occupancy sensor switches lights and receptacles ON
- Daylight Sensor maintains light level based on light level pre-set
- Entry Station and Teacher Station provide manual control of lights
- Upon Exit and after Occupancy sensor times out, lights and receptacles switched OFF
- Lights can be switched OFF manually at Entry Station and Teacher Station
- During power failure UL924 listed relays are automatically switched ON by back-up power source switching designated emergency lights ON and to full-bright. Emergency lights remain ON with all controls disabled until primary power is restored.
Classroom + Emergency Connection Schematic

Project Name: ___________________________     Date: __________________

Classroom + Emergency

Connection Schematic

Lighting Load 1
Lighting Load 2
Lighting Load 3
Switched Receptacle (Load 4)
Receptacle (Hot)
Lighting Hot
Neutral
(E) Lighting Load 5
(E) Lighting Hot
(E) Lighting Load 6
(E) Lighting Hot

Emergency Light (Relay 5)

Receptacle (Relay 4)

Neutral

Dim 1
Dim 2
Dim 3
Dim 4

Dataline: 18/2 Local Room Dataline (18/2)

Building Control via BACnet IP or Dialog Network

Daylight Sensor

Entry Station

Teacher Station

Occupancy Sensor (up to 4)

Dialog Room Controller

Kit Ordering Numbers:
DRC01OS-1S11-12-E
DRC01OS-1X11-12-E
DRC01OS-1S31-12-E
DRC01OS-1X31-12-E

Primary Daylight Zone
Secondary Daylight Zone
Classroom Front
Classroom Rear
Front EM Light (Relay 1)
Rear EM Light (Relay 2)
Whiteboard Light (Relay 3)

Options
• Additional Occupancy Sensors (4 max.)
• Vacancy Control (Manual ON / Auto OFF)
• Extended Lens range: 54' diameter (standard 28"
• Windows Opposite to Teaching Wall
• Occupancy Control (Auto ON / Auto OFF)
• Daylight Control (2 zones)
• Light Control zones (3 zones)
• Receptacle Control
• Dimming Control (3 zones)
• Entry Station (General ON/ALL OFF)
• Teacher Station (Teaching, General ON, A/V, Quiet Mode)
• Emergency Lighting Control (2 zones Orange & Grey)
  (Requires UL924 Relay Expansion Pack)

Operation
• Upon Entry Occupancy sensor switches lights and receptacles ON
• Daylight Sensor maintains light level based on light level pre-set
• Entry Station and Teacher Station provide manual control of lights
• Upon Exit and after Occupancy sensor times out, lights and receptacles switched OFF.
• Lights can be switched OFF manually at Entry Station and Teacher Station
• During power failure UL924 listed relays are automatically switched ON by back-up power source switching designated emergency lights ON and to full-bright. Emergency lights remain ON with all controls disabled until primary power is restored.

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.
Classroom
- Windows Perpendicular to Teaching Wall
- Skylight
- Occupancy Control (Auto ON / Auto OFF)
- Daylight Control (2 zones)
- Light Control (3 zones)
- Receptacle Control
- Dimming Control (4 zones)
- Entry Station (General ON / ALL OFF)
- Teacher Station (Teaching, General ON, A/V, Quiet Mode)

Options
- Additional Occupancy Sensors (4 max.)
- Vacancy Control (Manual ON / Auto OFF)
- Extended Lens range: 54’ diameter (standard 28’)

Operation
- Upon Entry Occupancy sensor switches lights and receptacles ON
- Daylight Sensor maintains light level based on light level pre-set
- Entry Station and Teacher Station provide manual control of lights
- Upon Exit and after Occupancy sensor times out, lights and receptacles switched OFF
- Lights can be switched OFF manually at Entry Station and Teacher Station
CLASSROOM

PROJECT NAME: _________________________  DATE: ____________________

For site installations, please review Kit wiring diagrams and follow local and national electrical codes.

Options
• Additional Occupancy Sensors (4 max.)
• Vacancy Control (Manual ON / Auto OFF)
• Extended Lens range: 54' diameter (standard 28”)

Classroom
• Windows Perpendicular to Teaching Wall
• Skylight
• Occupancy Control (Auto ON / Auto OFF)
• Daylight Control (2 zones)
• Light Control (3 zones)
• Receptacle Control
• Dimming Control (4 zones)
• Entry Station (General ON/ALL OFF)
• Teacher Station (Teaching, General ON, A/V, Quiet Mode)

Operation
• Upon Entry Occupancy sensor switches lights and receptacles ON
• Daylight Sensor maintains light level based on light level pre-set
• Entry Station and Teacher Station provide manual control of lights
• Upon Exit and after Occupancy sensor times out, lights and receptacles switched OFF.
• Lights can be switched OFF manually at Entry Station and Teacher Station

Dialog Room Controller

KIT#5

Kit Ordering Numbers:
DRC01PM-1S12-12-N
DRC01PM-1X12-12-N
DRC01PM-1S32-12-N
DRC01PM-1X32-12-N

Lighting 120/277/347Vac Distribution Cabinet (by Others)

Receptacle 120Vac Distribution Cabinet (by Others)

Neutral not shown - these illustrations are for reference purposes only.
Classroom with Emergency Power

- Windows Perpendicular to Teaching Wall
- Skylight
- Occupancy Control (Auto ON / Auto OFF)
- Daylight Control (2 zones)
- Light Control (3 zones)
- Receptacle Control
- Dimming Control (4 zones)
- Entry Station (General ON / All OFF)
- Teacher Station (Teaching, General ON, A/V, Quiet Mode)

Emergency Lighting Control (2 zones Orange & Grey) (Requires UL924 Relay Expansion Pack)

Options
- Additional Occupancy Sensors (4 max.)
- Vacancy Control (Manual ON / Auto OFF)
- Extended Lens range: 54’ diameter (standard 28’)

Operation
- Upon Entry Occupancy sensor switches lights and receptacles ON
- Daylight Sensor maintains light level based on light level pre-set
- Entry Station and Teacher Station provide manual control of lights
- Upon Exit and after Occupancy sensor times out, lights and receptacles switched OFF
- Lights can be switched OFF manually at Entry Station and Teacher Station
- During power failure UL924 listed relays are automatically switched ON by back-up power source switching designated emergency lights ON and to full-bright. Emergency lights remain ON with all controls disabled until primary power is restored.
CLASSROOM + EMERGENCY

PROJECT NAME: ________________________________ DATE: __________________

CLASSROOM + EMERGENCY

Connection Schematic

Section 2

www.DouglasLightingControls.com

PURPLE
RED
YELLOW
BLUE
BLUE
WHITE
BLACK
ORANGE
ORANGE
GREY
GREY

LIGHTING LOAD 1
LIGHTING LOAD 2
LIGHTING LOAD 3
SWITCHED RECEPTACLE LOAD 4
RECEPTACLE HOT
LIGHTING HOT
NEUTRAL
(EM) LIGHTING LOAD 5
(EM) LIGHTING HOT
(EM) LIGHTING LOAD 6
(EM) LIGHTING HOT

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

Kit Ordering Numbers:
DRC01PM-1S12-12-E
DRC01PM-1X12-12-E
DRC01PM-1S32-12-E
DRC01PM-1X32-12-E

Classroom with Emergency Power

• Windows Perpendicular to Teaching Wall
• Skylight
• Occupancy Control (Auto ON / Auto OFF)
• Daylight Control (2 zones)
• Light Control (3 zones)
• Receptacle Control
• Dimming Control (4 zones)
• Entry Station (General ON / ALL OFF)
• Teacher Station (Teaching, General ON, A/V, Quiet Mode)
• Emergency Lighting Control (2 zones Orange & Grey)
  (Requires UL924 Relay Expansion Pack)

Operation

• Upon Entry Occupancy sensor switches lights and receptacles ON
• Daylight Sensor maintains light level based on light level pre-set
• Entry Station and Teacher Station provide manual control of lights
• Upon Exit and after Occupancy sensor times out, lights and receptacles switched OFF.
• Lights can be switched OFF manually at Entry Station and Teacher Station
• During power failure UL924 listed relays are automatically switched ON by back-up power source switching designated emergency lights ON and to full-bright. Emergency lights remain ON with all controls disabled until primary power is restored.
**Classroom**
- Windows Opposite to Teaching Wall
- Skylight
- Occupancy Control (Auto ON / Auto OFF)
- Daylight Control (2 zones)
- Light Control (3 zones)
- Receptacle Control
- Dimming Control (4 zones)
- Entry Station (General ON/ALL OFF)
- Teacher Station (Teaching, General ON, A/V, Quiet Mode)

**Options**
- Additional Occupancy Sensors (4 max.)
- Vacancy Control (Manual ON / Auto OFF)
- Extended Lens range: 54” diameter (standard 28”)

**Operation**
- Upon Entry Occupancy sensor switches lights and receptacles ON
- Daylight Sensor maintains light level based on light level pre-set
- Entry Station and Teacher Station provide manual control of lights
- Upon Exit and after Occupancy sensor times out, lights and receptacles switched OFF
- Lights can be switched OFF manually at Entry Station and Teacher Station
For site installations, please review Kit wiring diagrams and follow local and national electrical codes.

Neutral not shown - these illustrations are for reference purposes only.

CLASSROOM

PROJECT NAME: ________________________________     DATE: __________________

Connection Schematic

Section 2

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PURPLE

RED

YELLOW

BLUE

BLUE

WHITE

BLACK

PURPLE

RED

YELLOW

BLUE

BLUE

BLACK

WHITE

LIGHTING LOAD 1

LIGHTING LOAD 2

LIGHTING LOAD 3

SWITCHED RECEPTACLE(S) LOAD 4

RECEPTACLE(S) HOT

LIGHTING HOT

NEUTRAL

NEUTRAL

NEUTRAL

Lighting 120/277/347Vac

Distribution Cabinet
(by Others)

Receptacle 120Vac

Distribution Cabinet
(by Others)

Dialogue Controller

Dialog Room Controller

KIT#7

Kit Ordering Numbers:

DRC01OM-11S12-N
DRC01OM-11X12-N
DRC01OM-13S2-N
DRC01OM-13X2-N

Building Controller via BACnet IP or Dialog Network

Dim 1

Dim 2

Dim 3

Dim 4

Local Room Dataline (18/2)

Daylight Sensor

Daylight Zone

Occupancy Sensor

Entry Station

Teachers Station

Options

• Additional Occupancy Sensors (4 max.)
• Vacancy Control (Manual ON / Auto OFF)
• Extended Lens range: 54’ diameter (standard 28’)
• Windows Opposite to Teaching Wall
• Skylight
• Occupancy Control (Auto ON / Auto OFF)
• Daylight Control (2 zones)
• Light Control (3 zones)
• Receptacle Control
• Dimming Control (4 zones)
• Entry Station (General ON / ALL OFF)
• Teacher Station (Teaching, General ON, A/V, Quiet Mode)

Operation

• Upon Entry Occupancy sensor switches lights and receptacles ON
• Daylight Sensor maintains light level based on light level pre-set
• Entry Station and Teacher Station provide manual control of lights
• Upon Exit and after Occupancy sensor times out, lights and receptacles switched OFF.
• Lights can be switched OFF manually at Entry Station and Teacher Station

Neutral not shown - these illustrations are for reference purposes only.

22
Kit #8

Classroom with Emergency Lighting
- Windows Opposite to Teaching Wall
- Skylight
- Occupancy Control (Auto ON / Auto OFF)
- Daylight Control (2 zones)
- Light Control (3 zones)
- Receptacle Control
- Dimming Control (4 zones)
- Entry Station (General ON / All OFF)
- Teacher Station (Teaching, General ON, A/V, Quiet Mode)

Emergency Lighting Control (2 zones Orange & Grey)
(Requires UL924 Relay Expansion Pack)

Options
- Additional Occupancy Sensors (4 max.)
- Vacancy Control (Manual ON / Auto OFF)
- Extended Lens range: 54" diameter (standard 28")

Operation
- Upon Entry Occupancy sensor switches lights and receptacles ON
- Daylight Sensor maintains light level based on light level pre-set
- Entry Station and Teacher Station provide manual control of lights
- Upon Exit and after Occupancy sensor times out, lights and receptacles switched OFF
- Lights can be switched OFF manually at Entry Station and Teacher Station
- During power failure UL924 listed relays are automatically switched ON by back-up power source switching designated emergency lights ON and to full-bright. Emergency lights remain ON with all controls disabled until primary power is restored.
For site installations, please review Kit wiring diagrams and follow local and national electrical codes.

![Diagram of Classroom + Emergency Connection Schematic](image-url)
Double Classroom
- Windows Perpendicular to Teaching Wall
- Occupancy Control (Auto ON / Auto OFF)
- Daylight Control (2 zones per room)
- Light Control (2 zones per room)
- Dimming Control (2 zones per room)
- Entry Station (General ON / ALL OFF)
- Teacher Station (Teaching, General ON, A/V, Quiet Mode)

Options
- Additional Occupancy Sensors (4 max.)
- Vacancy Control (Manual ON / Auto OFF)
- Extended Lens range: 54" diameter (standard 28")

Operation
- Upon Entry Occupancy sensor switches lights and receptacles ON
- Daylight Sensor maintains light level based on light level pre-set
- Entry Station (ON/OF) and Teacher Station (GENERAL, TEACHING, A/V, ALL, DIMMING) provide manual control of lights
- Upon Exit and after Occupancy sensor times out, lights and receptacles switched OFF
- Lights can be switched OFF manually at Entry Station and Teacher Station

Dialog Room Controller

Entry Station A
Teacher Station A
Relay 1     Dimmer 1
Relay 2     Dimmer 2
Dimming Zone 1
Dimming Zone 2

Primary Daylight Zone A
Primary Daylight Zone B

Secondary Daylight Zone A
Secondary Daylight Zone B

Relay 3 White Board / Presentation Wall Lights
Relay 4 White Board / Presentation Wall Lights

O/S A
D/S A

Window
Teacher Station B
Entry Station B

Dimmer 3
Dimmer 4
Dimming Zone 3
Dimming Zone 4

Relay 3
Relay 4
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.
Double Classroom with Emergency Lighting
(Requires UL924 Relay Expansion Pack)

- Windows Perpendicular to Teaching Wall
- Occupancy Control (Auto ON / Auto OFF)
- Daylight Control (2 zones per room)
- Light Control (3 zones per room)
- Dimming Control (2 per room)
- Entry Station (General ON/ALL OFF)
- Teacher Station (Teaching, General ON, A/V, Quiet Mode)

Options
- Additional Occupancy Sensors (4 max.)
- Vacancy Control (Manual ON / Auto OFF)
- Extended Lens range: 54” diameter (standard 28”)

Operation
- Upon Entry Occupancy sensor switches lights and receptacles ON
- Daylight Sensor maintains light level based on light level pre-set
- Entry Station and Teacher Station provide manual control of lights
- Upon Exit and after Occupancy sensor times out, lights and receptacles switched OFF
- Lights can be switched OFF manually at Entry Station and Teacher Station
- During power failure UL924 listed relays are automatically switched ON by back-up power source switching designated emergency lights ON and to full-bright. Emergency lights remain ON with all controls disabled until primary power is restored.
DOUBLE CLASSROOM + EMERGENCY

PROJECT NAME: ________________________ DATE: __________________

Double Classroom + Emergency

Connection Schematic

Section 2

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PURPLE
RED
YELLOW
BLUE
BLUE
WHITE
BLACK
ORANGE
ORANGE
GREY
GREY

LIGHTING LOAD 1
LIGHTING LOAD 2
LIGHTING LOAD 3
LIGHTING LOAD 4
LIGHTING HOT LOAD 4
LIGHTING HOT
NEUTRAL
NEUTRAL

(EM) LIGHTING LOAD 5
(EM) LIGHTING HOT
(EM) LIGHTING LOAD 6
(EM) LIGHTING HOT

Emergency

120/277/347Vac
Distribution
Cabinet
(by Others)

Lighting
120/277/347Vac
Distribution
Cabinet
(by Others)

Neutral

Neutral

Emergency

120/277/347Vac
Distribution
Cabinet
(by Others)

Dialog Room Controller

KIT#10

Kit Ordering Numbers:
DRC02PS-2STZ-22-E
DRC02PS-2X12-22-E
DRC02PS-2S3Z-22-E
DRC02PS-2X32-22-E

Near Window
(Relay 1)

Emergency
120/277/347Vac
Distribution
Cabinet
(by Others)

Near Window
(Relay 2)

Emergency
120/277/347Vac
Distribution
Cabinet
(by Others)

Near Window
(Relay 3)

Emergency
120/277/347Vac
Distribution
Cabinet
(by Others)

Near Window
(Relay 4)

Emergency
120/277/347Vac
Distribution
Cabinet
(by Others)

Near Window
(Relay 5)

Emergency
120/277/347Vac
Distribution
Cabinet
(by Others)

Near Window
(Relay 6)

Occupancy Sensor
Classroom A

Daylight Sensor
Classroom A

Daylight Sensor
Classroom B

Entry Station(s)
Classroom A

Teachers Station
Classroom A

Emergency
Loading
NEUTRAL

Building Control
Kit 10B or building network

Options
• Additional Occupancy Sensors (4 max.)
• Vacancy Control (Manual ON / Auto OFF)
• Extended Lens range: 54' diameter (standard 28”)
• Windows Perpendicular to Teaching Wall
• Occupancy Control (Auto ON / Auto OFF)
• Daylight Control (2 zones per room)
• Light Control (3 zones per room)
• Dimming Control (2 per room)
• Entry Station (General ON/ALL OFF)
• Teacher Station (Teaching, General ON, A/V, Quiet Mode)
• Emergency Lighting Control (2 zones Orange & Grey)

(ID Requires UL924 Relay Expansion Pack)

Operation
• Upon Entry Occupancy sensor switches lights and receptacles ON
• Daylight Sensor maintains light level based on light level pre-set
• Entry Station and Teacher Station provide manual control of lights
• Upon Exit and after Occupancy sensor times out, lights and receptacles switched OFF.
• Lights can be switched OFF manually at Entry Station and Teacher Station
• During power failure UL924 listed relays are automatically switched ON by back-up power source switching designated emergency lights ON and to full-bright. Emergency lights remain ON with all controls disabled until primary power is restored.

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.
Kit #11

Office
- Occupancy Control (Auto ON / Auto OFF)
- Daylight Control (2 zones)
- Light Control (3 zones)
- Receptacle Control
- Dimming Control (3 zones)
- Wall Station (General ON/ALL OFF)

Options
- Additional Occupancy Sensors (4 max.)
- Vacancy Control (Manual ON / Auto OFF)
- Extended Lens range: 54" diameter (standard 28")

Operation
- Upon Entry Occupancy sensor switches lights and receptacles ON
- Daylight Sensor maintains light level based on light level pre-set
- Office Wall Station provides manual control of lights
- Upon Exit and after Occupancy sensor times out, lights and receptacles switched OFF
- Lights can be switched OFF manually at Office Wall Station
**Project Name:**

Date: 

---

**Office**

---

**Connection Schematic**

---

**Section 2**

---

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---

**PURPLE**

---

**RED**

---

**YELLOW**

---

**BLUE**

---

**BLUE**

---

**WHITE**

---

**BLACK**

---

**NEUTRAL**

---

**Lighting 120/277/347Vac Distribution Cabinet (by Others)**

---

**Neural not shown - these illustrations are for reference purposes only.**

**For site installations, please review Kit wiring diagrams and follow local and national electrical codes.**
Office with Emergency Lighting
- Occupancy Control (Auto ON / Auto OFF)
- Daylight Control (2 zones)
- Light Control (3 zones)
- Receptacle Control
- Dimming Control (3 zones)
- Wall Station (General ON / ALL OFF)

Emergency Lighting Control (EMRG)
- UL924 Relay Expansion Pack Required
- (1 zone - Orange)

Options
- Additional Occupancy Sensors (4 max.)
- Vacancy Control (Manual ON / Auto OFF)
- Extended Lens range: 54" diameter (standard 28")

Operation
- Upon Entry Occupancy sensor switches lights and receptacles ON
- Daylight Sensor maintains light level based on light level pre-set
- Office Wall Station provides manual control of lights
- Upon Exit and after Occupancy sensor times out, lights and receptacles switched OFF
- Lights can be switched OFF manually at Office Wall Station
- During power failure UL924 listed relays are automatically switched ON by back-up power source switching designated emergency lights ON and to full-bright. Emergency lights remain ON with all controls disabled until primary power is restored.
OFFICE + EMERGENCY

Dialog Room Controller - KIT #12

Kit Ordering Numbers:
DRC01NS-1S11-30-E
DRC01NS-1X11-30-E
DRC01NS-1S31-30-E
DRC01NS-1X31-30-E

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.
KIT #13

Office
- Occupancy Control (Auto ON / Auto OFF)
- Daylight Control (2 zones)
- Light Control (3 zones)
- Receptacle Control
- Dimming Control (3 zones)
- Wall Station (4-button toggle)

Options
- Additional Occupancy Sensors (4 max.)
- Vacancy Control (Manual ON / Auto OFF)
- Extended Lens range: 54’ diameter (standard 28’)

Operation
- Upon Entry: Occupancy sensor switches lights and receptacles ON
- Daylight Sensor maintains light level based on light level pre-set
- Office Wall Station provides manual control of lights
- Upon Exit and after Occupancy sensor times out, lights and receptacles switched OFF.
- Lights and receptacle can be switched OFF manually at Wall Station

*Optional

Dialog Room Controller

Wall Station

Primary Daylight Zone & Dimmer Zone 1

Dimming Zone 1

Dimming Zone 2

Dimming Zone 3

Relay 1

Dimmer 1

Relay 3

Dimmer 3

Relay 3

Dimmer 3

Relay 3

Dimmer 3

D/S

O/S

Relay 4

Receptacle
### Office

**Project Name:**

**Date:**

---

#### Dialog Room Controller

**Kit Ordering Numbers:**
- DRC01NS-1S11-30-N
- DRC01NS-1X11-30-N
- DRC01NS-1S31-30-N
- DRC01NS-1X31-30-N

---

**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.*
Office with Emergency Lighting

- Requires UL924 Relay Expansion Pack (orange)
- Occupancy Control (Auto ON / Auto OFF)
- Daylight Control (2 zones)
- Light Control (3 zones)
- Receptacle Control
- Dimming Control (3 zones)
- Wall Station (4-button)

Options

- Additional Occupancy Sensors (4 max.)
- Vacancy Control (Manual ON / Auto OFF)
- Extended Lens range: 54' diameter (standard 28')

Operation

- Upon Entry Occupancy sensor switches lights and receptacles ON
- Daylight Sensor maintains light level based on light level pre-set
- Office Wall Station provides manual control of lights
- Upon Exit and after Occupancy sensor times out, lights and receptacles switched OFF
- Lights and receptacle can be switched OFF manually at Wall Station
- During power failure UL924 listed relays are automatically switched ON by back-up power source switching designated emergency lights ON and to full-bright.
- Emergency lights remain ON with all controls disabled until primary power is restored.
For site installations, please review Kit wiring diagrams and follow local and national electrical codes.
Two Offices, One Dialog Room Controller

- UL924 Relay Expansion Pack used for additional light loads (not Emergency Lighting)
- Occupancy Control (Auto ON / Auto OFF)
- Daylight Control (1 zone per room)
- Light Control (2 zones per room)
- Receptacle Control
- Dimming Control (1 zone per room)
- Wall Station (ON/OFF)

Options
- Additional Occupancy Sensors (Max. 4 per system)
- Vacancy Control (Manual ON / Auto OFF)
- Extended Lens range: 54’ diameter (standard 28’)

Operation
- Upon Entry Occupancy sensor switches lights and receptacles ON
- Daylight Sensor maintains light level based on light level pre-set
- Office Wall Station provides manual control of lights
- Upon Exit and after Occupancy sensor times out, lights and receptacles switched OFF
- Lights can be switched OFF manually at Wall Station

Primary Daylight Zone A

- Relay 1
- Dimmer 1
- D/S
- O/S

Dimming Zone 1

- Relay 2
- Dimmer 1

Primary Daylight Zone B

- Relay 3
- Dimmer 2
- D/S
- O/S

Dimming Zone 2

- Relay 4
- Dimmer 2

Relay 5
Receptacle

Wall Station A

Relay 6
Receptacle

Wall Station B

Dialog Room Controller
Two Offices, One DRC

Project Name: ___________________ Date: __________________

Connection Schematic

Office A

Office B

Receptacle (Relay 3)

N

Dim 1

Dim 2

Dim 4

Dim 3

Daylight Sensor

Classroom B

Entry Station(s)

Office B

Building Control via BACnet IP or Dialog Network

WRC-3160

WUL-3924

Occupancy Sensor

Classroom A

Daylight Sensor

Classroom A

N

Dim 2

Dim 1

Entry Station(s)

Office A

Receptacle (Relay 5)

N

Receptacle

(Relay 6)

N

Receptacle (Relay 5)

N

Receptacle (Relay 6)

N

Dialog Room Controller

Kit#15

Kit Ordering Numbers:

DRC02NS-2S12-04-N
DRC02NS-2X12-04-N
DRC02NS-2S32-04-N
DRC02NS-2X32-04-N

Office A

Office B

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.
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.
**BASIC + EMERGENCY LIGHTING**

```
1.0 BASIC INSTALLATION
2.0 RECEPTACLE
3.0 EMERGENCY INSTALLATION
4.0 EMERGENCY + RECEPTACLE INSTALLATION
```

 Loads Line Voltage (lights)

 Line Voltage (lights) with emergency backup power

 Daylight Sensor

 Occupancy Sensor

 Wall Switches

 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.
BASIC + RECEPTACLE

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.
BASIC + RECEPTACLE + EMERGENCY

4.0 EMERGENCY + RECEPTACLE INSTALLATION

Daylight Sensor
2-Wire Network
Occupancy Sensor
Wall Switches

Loads

Line Voltage (lights)
Line Voltage (receptacle)

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.
EMERGENCY (REMOTE MOUNT)

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.
Switch Option Summary

<table>
<thead>
<tr>
<th>Device Type</th>
<th>Description</th>
<th>PN</th>
</tr>
</thead>
<tbody>
<tr>
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<td>Digital 4 Channel ON/OFF Room Controller w/ Receptacle Control, BACnet</td>
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<td>Digital 2 Channel UL924 Emergency Lighting Controller / Relay Expansion Pack</td>
<td>WUL-3924</td>
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<td>Recessed Ceiling Standard Range Lens w/ Time Delay Dial &amp; Aux Relay</td>
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<td>Recessed Ceiling Extended Range Lens w/ Time Delay Dial &amp; Aux Relay</td>
<td>WORXD01-R-T</td>
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<td>Digital Vacancy Sensor</td>
<td>Recessed Ceiling Standard Range Lens w/ Time Delay Dial &amp; Aux Relay</td>
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<td>Interior Daylight Sensor for Closed Loop Controlled dimming (on-board dial)</td>
<td>WPP-INT</td>
</tr>
<tr>
<td>Digital Dimmer &amp; Switch, 1 Channel, O Type</td>
<td>Digital Dimmer &amp; Switch, ALL Up/Down &amp; On/Off</td>
<td>WRC-DS-O</td>
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<td>Digital Dimmer &amp; Switch, FRONT Up/Down &amp; On/Off</td>
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<td>Digital Dimmer &amp; Switch, Zone 1 UP/Down &amp; On/Off</td>
<td>WRC-DS-Z1</td>
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<tr>
<td>Digital Dimmer &amp; Switch, 1 Channel, Zone 2 Type</td>
<td>Digital Dimmer &amp; Switch, Zone 2 UP/Down &amp; On/Off</td>
<td>WRC-DS-Z2</td>
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<tr>
<td>Digital Dimmer &amp; Switch, 1 Channel, Zone 3 Type</td>
<td>Digital Dimmer &amp; Switch, Zone 3 UP/Down &amp; On/Off</td>
<td>WRC-DS-Z3</td>
</tr>
<tr>
<td>4 Button Teacher Switch Station</td>
<td>Digital 1 Gang 4 Button Switch</td>
<td>WRC-TS-1</td>
</tr>
<tr>
<td>2 Button Classroom Entry Switch Station</td>
<td>Digital 1 Gang 2 Button Switch</td>
<td>WRC-ES-1</td>
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<td>4 Button Office Switch Station Toggle Control</td>
<td>Digital 1 Gang 4 Button Switch</td>
<td>WRC-OF-TGL</td>
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<tr>
<td>4 Button Office Switch Station Preset Control</td>
<td>Digital 1 Gang 4 Button Switch</td>
<td>WRC-OF-PS</td>
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<td>Digital 1 Gang 2 Button Switch</td>
<td>WRC-OF-ES2</td>
</tr>
<tr>
<td>4 Button Office Entry Switch Station</td>
<td>Digital 1 Gang 8 Button Switch (dimming &amp; ON/OFF)</td>
<td>WRC-TS-8</td>
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<td>8 Button Dimmer Control</td>
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Dimmer Switch: Optimal Dimming Control

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<td>WRC-DS-0</td>
<td>General</td>
</tr>
<tr>
<td>WRC-DS-F</td>
<td>Front</td>
</tr>
<tr>
<td>WRC-DS-R</td>
<td>Rear</td>
</tr>
<tr>
<td>WRC-DS-Z1</td>
<td>Zone 1</td>
</tr>
<tr>
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<td>Zone 2</td>
</tr>
<tr>
<td>WRC-DS-Z3</td>
<td>Zone 3</td>
</tr>
</tbody>
</table>

Standard naming Shown
Can be Customized at Site or At Customer Request
FAQ - DIALOG ROOM CONTROLLER

QUESTION: How does the Expansion Pack connect to Dialog Room Controller?

ANSWER: The Expansion Pack can be connected directly to the Room controller via an integrated clip attachment.

- If the Expansion Pack is connected with the Room Controller, then the units communicate through a Dialog protocol connection.

ANSWER: If the Expansion Pack is remotely mounted from the Room Controller, then a 2-wire connection is needed to communicate through a Dialog protocol. The remote mount kit includes a Conduit Adapter and Connector.

QUESTION: What power can the relays support?

ANSWER: There are two 20A circuits coming into the Room Controller, Hot on #1, #2, #3 and Hot on 4.

- #1, #2, #3 are rated for 20A (combined).
- #4 is rated for 20A by itself.
- There are 2 circuits so different voltages can be used.
- Expansion pack can add 2 more 20A Circuits (#5 and #6)

QUESTION: Do the relays support 120VAC, 277VAC and 347VAC?

ANSWER: Yes.

QUESTION: When using Dialog WLC-3150 and Dialog Room Controller and the Dialog WLC-3150 goes down, will the Dialog Room Controller function as a stand-alone?

ANSWER: Yes.

QUESTION: Does Dialog Room Controller work with a GUI?

ANSWER: Graphical UI would be for a centralized system. To drive graphics, a Dialog WLC-3150 and GWS are required.

QUESTION: Do Dialog devices work with Dialog Room Controller?

ANSWER: No. Dialog Room Controller is sold as a kit and includes sensors and switches configured for the specific room applications.

QUESTION: Is the 0-10V dimming isolated?

ANSWER: Yes, each of the four 0-10V dimming outputs are independent channels. 100mA sinking per channel.

QUESTION: What is the maximum number of devices on a room controller?

ANSWER: Dimming: Calculation required based on 100mA per channel of dimming. This will depend on LED driver sinking current requirements. Each DRC is designed to handle up to four Occupancy Sensors and 2 Daylight Sensors plus switches and is limited by the 250mA output of the Dialog Room Controller.

QUESTION: Can Dialog Room Controller provide partition control?

ANSWER: No, it is designed for room control. Partition Control requires WLC-3150 and appropriate firmware version.

QUESTION: How many Dialog Room Controllers on WLC-3150?

ANSWER: WLC-3150 can support up to 64 Dialog Room Controllers. Please contact us for your specific project.

QUESTION: Why or when should I use the expansion pack?

ANSWER: If the room requires a UL924 emergency lighting circuit.

QUESTION: How does the emergency lighting work when a 0-10v dimmer channel is controlling the fixture/zone?

ANSWER: When power is lost to the room controller, the dimming circuit acts as an open circuit so dimming control is no longer present, while the expansion pack automatically latches both internal relays to ON position. When emergency power is provided, power goes through the UL924 expansion pack and the fixture will turn on at full brightness. – see wiring diagram.
Since 1962, Douglas Lighting Controls has been solving lighting control challenges by providing convenient and efficient solutions to buildings throughout North America. Their products effectively operate facility lighting while minimizing energy consumption. With over 50 years of providing lighting control solutions, customers trust Douglas Lighting Controls' experience and product quality.

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- Make use of Highest Performing Components

**Integrity**
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- Unwavering Commitment to Successful Outcomes
- Backed by a Global Leader - Panasonic