

# DMX 8 & 24 Circuit Relay Control Panels



8 Relay Panel



24 Relay Panel

## DESCRIPTION

Leviton DMX Relay Control Panels are specifically designed to support the switching power needs of non-dim, worklight and power for LED fixtures. The Leviton DMX Relay Control Panels are specifically designed for theaters and other entertainment venues as they transition to digitally controlled loads to turn power on and off to these devices. The DMX Relay Control Panels use DMX control protocols for this purpose to determine which relays are ON or OFF.

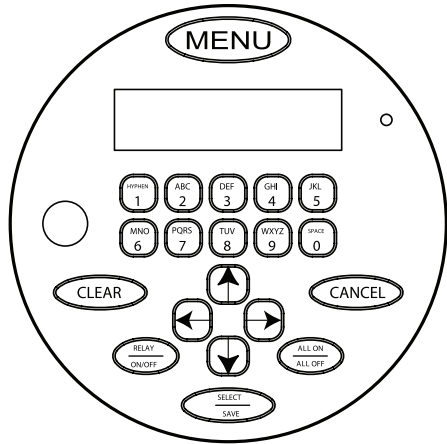
## FEATURES

- Relay cards are rated for all light sources and motors
- Relay cards are individually replaceable
- Single pole and two pole relay cards fit in the same location—same density regardless
- Normal or emergency panel capability
- Panel is pre-wired and tested
- Standard transformer has inputs for:
  - Input power (domestic): 120V, 277V and 347V
  - Input power (foreign): 230V +/- 15%
- Panels may be surface or recess mounted
- 2 year warranty on panels
- Integrated Astronomical Time Clock scheduler

## APPLICATIONS

- Theaters
- Schools
- Churches
- LED fixture control power
- Worklights
- Non-dimming lights

## PRODUCT DATA



### CONTROL MODULE OVERVIEW

The DMX Control Module is used to configure the entire system. The Controller features an LCD user interface to facilitate programming of all switching system and Astronomic Time Clock (ATC) parameters.

### CONTROL MODULE FEATURES

- Integrated ATC automates switching with up to 999 user-defined events and 999 holiday schedules
- ATC events may be triggered by time of day or by a time offset from either sunrise or sunset
- System location is programmable by specifying the location
- ATC automatically adjusts for daylight saving time and leap year (where applicable)
- Emergency sensing control power loss circuitry
- Daylight harvesting
- Individual override switch per relay

### ASTRONOMIC TIME CLOCK

- Capable of up to 999 events
- Capable of 999 holidays
- Holiday schedules are programmable one year in advance
- Astronomical time clock programmable by entering your location
- Meets energy code requirements for California Title 24 120V, 277V and 347V panels

### NETWORK CONNECTIONS

- DMX
- Luma-Net

## SPECIFICATIONS

### POWER

- Input Power: 120V, 277V or 347V power; separate transformer functions at 230V +/- 15%
- All voltages 50/60 Hz, phase to neutral
- Lifetime power failure memory: restores lighting to levels prior to power interruption
- User adjustable for either sequential or non-sequential cycling of relays

### SOURCES

- Incandescent (Tungsten) and Halogen
- Magnetic low voltage transformer
- Electronic low voltage transformer
- Neon or cold cathode
- Magnetic and electronic fluorescent lamp ballasts
- HID
- Motor loads: 1 HP at 120V, 2 HP at 277V, 2 HP at 480V

### RELAY CARDS

- Several relay cards to choose from:
  - 30A standard relay card
  - 347V 20A relay card, single pole
  - 2 pole 208-480V, 20A, N/O or N/C relay card
  - Latching 277V, 20A continuous use relay card
- Relay cards rated at 20A for N/O or N/C continuous use lighting loads
- Zero cross circuit eliminates arcing at mechanical contacts when loads are switched. Prolongs relay life to an average of 1,000,000 cycles (ON/OFF). Handles 50 times steady-state current inrush. Rated for resistive, inductive or capacitive sources.
- 10 year warranty on relay cards

### WIRING

- Internal: factory pre-wired and tested
- System communications: low voltage Class 2 (SELV) wiring connects panels to external controls
- Line (mains) voltage: feed (for control electronics) and load wiring only, no other wiring or assembly required

### PHYSICAL DESIGN

- Enclosure: NEMA-Type 1, IP20 Protection; #16 U.S. gauge steel, indoors only
- Dimension: (see page 4)
- Weight: (see page 4)
- Black finish

### MOUNTING

- Surface mount or recess
- Recessed mounting flanges available

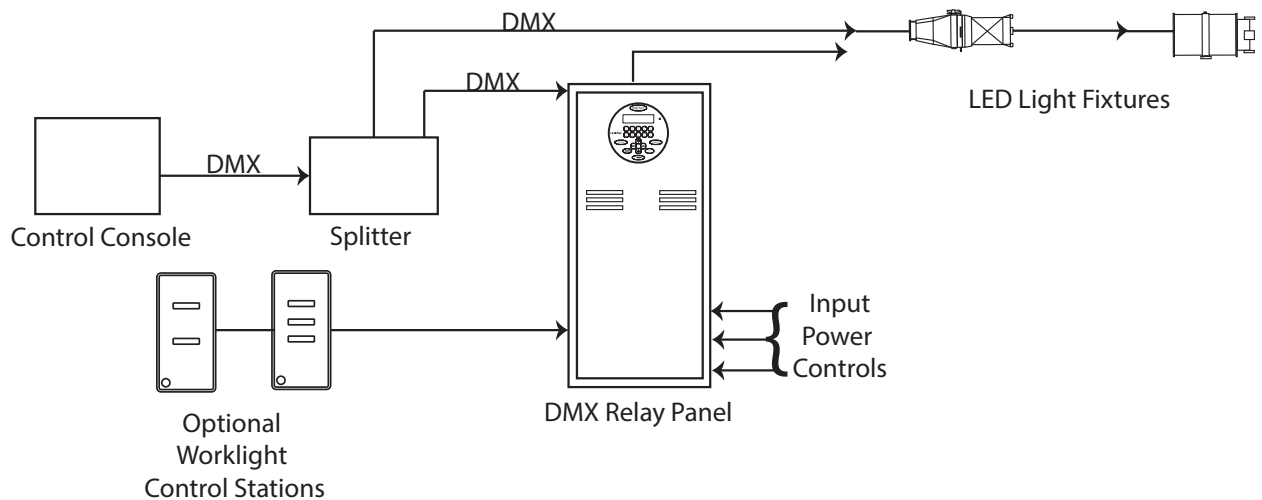
### ENVIRONMENT

- 32 to 104°F (0 to 40°C) relative humidity less than 90% non-condensing

### STANDARDS

- For 120V, 277V and 347V Panels:
  - UL 924
  - UL and cUL Listed (Reference: UL File EI23072)
  - Meets energy code requirements for ASHRAE Standard 90.1 and Title 24

## WIRING DIAGRAM



**ORDERING INFORMATION**

CAT. NO.	DESCRIPTION
R08DD-L08	8 Circuit DMX Relay Panel, 120, 277V and 347 input, provided with (8) 30A, 1-pole relays
R24DD-L24	24 Circuit DMX Relay Panel, 120, 277V and 347V input, provided with (24) 30A, 1-pole relays
R08DD-000	DMX 8 Relay Cabinet, empty
R24DD-000	DMX 24 Relay Cabinet, empty
ACCESSORIES	
RELAY-L30	Single-Pole N/O or N/C Relay Card, 30A, 120-277V
RELAY-2PL	2-Pole N/O Relay Card, 20A, 208-480V
RELAY-347	347V Relay Card, 20A
RAC00-ETH*	Ethernet Module
RAC00-F08	Flush Trim Kit for 8 Relay Panel
RAC00-F24	Flush Trim Kit for 24 Relay Panel
RAC00-VBR	Voltage barrier between relay cards
ZMDSW-0xW	Luma-Net Worklight Control Stations, color: white

\*Consult factory for availability  
 Worklight Control Stations come in 1, 2, 3, 4, 5, 6, 8 and 10 button configurations. Replace x with number of buttons (01, 02, 03, 04, 05, 06, 08, 10).

PANEL	LENGTH	HEIGHT	DEPTH	WEIGHT FULLY LOADED	SUGGESTED MOUNTING HEIGHT TO BOTTOM OF PANEL
8 Relays - Networked	13" (330.20mm)	13" (330.20mm)	4 11/32" (110.55mm)	16 lbs (7.26kg)	53" (1358.9mm)
24 Relay Panel	20" (514.35mm)	34" (863.60mm)	4 11/32" (110.55mm)	44 lbs (19.96 kg)	32" (825.5 mm)

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