Catalog Number: | Date: | Project:

AcuityControls

LC&D

GR 2400™

DMX512A Relay Panel

OVERVIEW

The DMX512A Relay Panel is a DMX panel which turns ON and OFF SnapLink Relays and may use any start address.

FEATURES

- Manual override of the entire panel, individual relays, or zones if no DMX signal is present.
- "Discreet Mode" or "Zone Mode" control which allows multiple relays to be controlled by the same DMX address
- Mixed voltage control (120V, 277V)
- Normal or Emergency Power control

Warranty

Three-year limited warranty. Complete warranty terms located at:
www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

Note: Actual performance may differ as a result of end-user environment and application.

Specifications subject to change without notice.

ORDERING INFORMATION

DMX PANEL ENCLOSURE — **Example: DMX48 ENC SM NE1**

DMX Relay Panel Enclosure		Enclosure Mounting, NEMA Rating, Knockouts[1]	
DMX16 ENC	16 Relay Enclosure	**SM NE1**	Surface mount, NEMA 1, with Knockouts
DMX32 ENC	32 Relay Enclosure	**FM NE1**	Flush mount, NEMA 1, with Knockouts
DMX48 ENC	48 Relay Enclosure	**SM NE1 NKO**	Surface mount, NEMA 1, no Knockouts
		FM NE1 NKO	Flush mount, NEMA 1, no Knockouts
		SM NE4	Surface mount, NEMA 4
		SM NE4X	Surface mount, NEMA 4X
		SM NE12	Surface mount, NEMA 12

DMX PANEL INTERIOR — **Example: DMX48 INT 12NCL 12SPDT 12DPNO DV 1VB**

DMX Relay Panel Interior		Relay Type		Transformer		Voltage Barrier[2]	
DMX16 INT	16 Relay Interior	**[qty]NCL**	Normally closed, Latching	**DV**	Dual voltage, 120/277V	**[Blank]**	No barrier
DMX32 INT	32 Relay Interior	**[qty]NOL**	Normally open, Latching	**CNDV**	Canadian dual voltage,120/347V	**1VB**	1 barrier
DMX48 INT	48 Relay Interior	**[qty]DPNC**	Double pole, normally closed			**2VB**	2 barrier s
		[qty]DPNO	Double pole, normally open			**3VB**	3 barrier s
		[qty]RRNO	Reed relay pair, normally open			**4VB**	4 barriers
		[qty]SPDT	Single pole, Double throw				
		[qty]SPDTC	Single pole, Double throw contractor				

Notes:
1. "NO KNOCKOUTS" option only available for DMX32 and DMX48 enclosures. DMX16 NEMA 1 enclosures come with knockouts by default. All other NEMA ratings (4, 4X and 12) come without knockouts by default.
2. Compliance with all codes concerning any internal barrier for normal and emergency power separation is up to the discretion of the authority having jurisdiction.

PANEL OVERVIEW

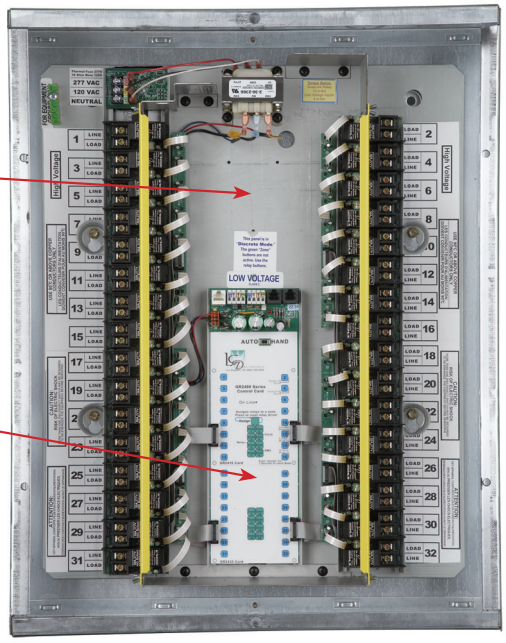
Digital DMX Connectors:
Pluggable Screw Connectors

Interior: mounted on removable back plate

Optional High/Low Voltage Barrier:
(16 gauge steel)

Relay Control Card:
Manual control of zones or individual relays

Title 24 System Component



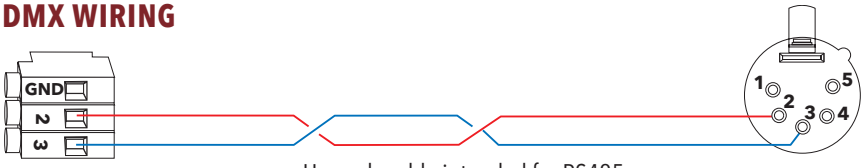
Seismic Certification:

- Preapproved for use in Category IV structures with an Importance Factor of 1.5
- California Office of Statewide Health Planning and Development (OSHPD) Special Seismic Certification Preapproval (# OSP-0091-10)

Evaluated per the requirements of:

- 2007/ 2010 California Building Code
- Section 13.2.5 of (American Society of Civil Engineers / Structural Engineering Institute) ASCE/SEI 7-05
- Tested to: ICC-ES AC156

DMX WIRING



Digital DMX Connector in DMX Panel

Use only cable intended for RS485 communication.

Only twisted and shielded pair.
Balanced audio cable is not acceptable.

Male XLR 5 pin connector

DMX Wiring and termination notes:

- Pin #3 of the XLR Connector is routed to Terminal #3 of the Digital DMX Connector.
- Pin #2 of the XLR Connector is routed to Terminal #2 of the Digital DMX Connector.
- If end of the line is an XLR connector, then terminate the end of the network with 120 ohm end-of-line resistor or DMX terminator. In the case of the Digital DMX connector, an end-of-line resistor should be across Terminals #2 and #3.
- If there is a two pin termination connector on the panel, use the blue jumper to enable it.

DIMENSIONS

16 RELAY PANEL

- NEMA 1 - 12" W x 18" H x 6" D
- NEMA 4/12 - 16"W x 24"H x 6"D
- NEMA 4X - 16"W x 24"H x 8"D

32 RELAY PANEL

- NEMA 1 - 20" W x 25.5" H x 6" D
- NEMA 4/4X/12 - 24"W x 36"H x 8"D

48 RELAY PANEL

- NEMA 1 - 20" W x 37.5" H x 6" D
- NEMA 4/12 - 24"W x 48"H x 10"D
- NEMA 4X - 36"W x 48"H x 10"D

SPECIFICATIONS

Electrical

- Power Supply Input: 120/277VAC or 120/347VAC
- Accessory Power (For Occupancy Sensor): 24VDC, 450mA

Mechanical

- Surface mount,, NEMA 1, hinged locking door
- Flush mount NEMA 1 available
- Surface mount NEMA 4, 4X, 12 available

Environmental

- Ambient: 32°F to 104°F (0°C to 40°C)
- Relative Humidity: 10-90% non-condensing

Standard Relay NCL (Normally Closed)

- 30A@277VAC Ballast
- 20A@120VAC Tungsten
- 20A@347VAC Ballast
- SCCR 18kA @ 277VAC
- Rated 250,000 Cycles

Optional Relays

- Normally Open (NOL)
- Two Pole - NOL or NCL (480VAC)
- Double Throw - 20A@ 277VAC

Standards

- UL and cUL to UL 916
- ETL Listed to UL 924 (for emergency circuit use)

Bus Physical Layer

- DMX 512A

