

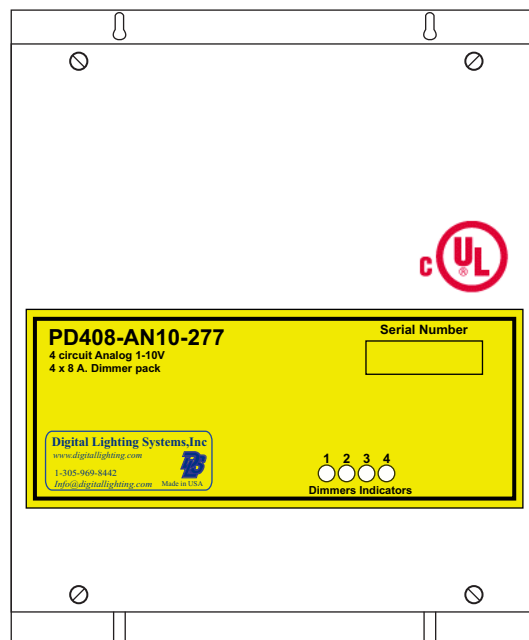


# Digital Lighting Systems, Inc.

## PD408-AN10-277

ANALOG 0-10 V

0-10V analog control  
4 Channel x 2250 W Dimmer & Switch Packs  
220/240/277 Volts operation



# USER'S MANUAL

PD408-AN10-277 Load Driver Module Information

Figure 1 - PD408-AN10-277 LDM Detail

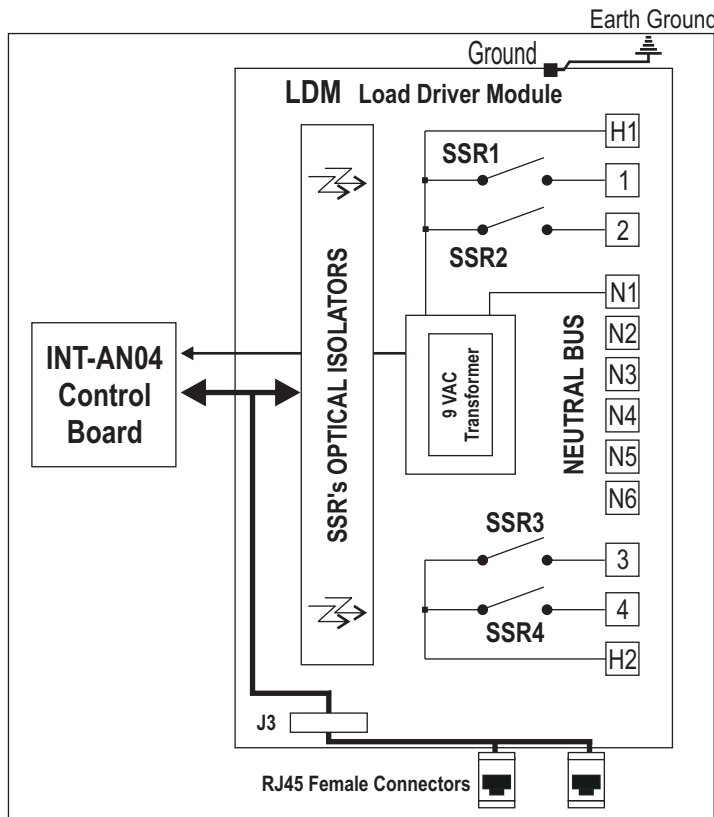


Table 1 - Terminals Definition

NAME	DESCRIPTION
1	Output Of Solid-State Relay #1
2	Output Of Solid-State Relay #2
3	Output Of Solid-State Relay #3
4	Output Of Solid-State Relay #4
H1	Hot Line Feed For Relays 1 & 2.
H2	Hot Line Feed For Relays 3 & 4.
N1-N6	Neutral Bus Connections.

Table 2 - Absolute Maximum Electrical Ratings

Electrical Characteristic	Terminal	Maximum
Relay Load Current	1 to 4	8 Amps.
Input Current For Relays 1 & 2	H1	20 Amps.
Input Current For Relays 3 & 4	H2	20 Amps.
Input Voltage	H1-H2	220 to 277 VAC, 1-Phase.

**Specifications: PD408-AN10-277**

4 x 2250 Watts @ 277 VAC dimmer pack which is designed to be controlled either by a 4 x100 KOHM potentiometers ; one for each dimmer, or by a standard **0-10 V analog signal from a sinking or sourcing controller.**

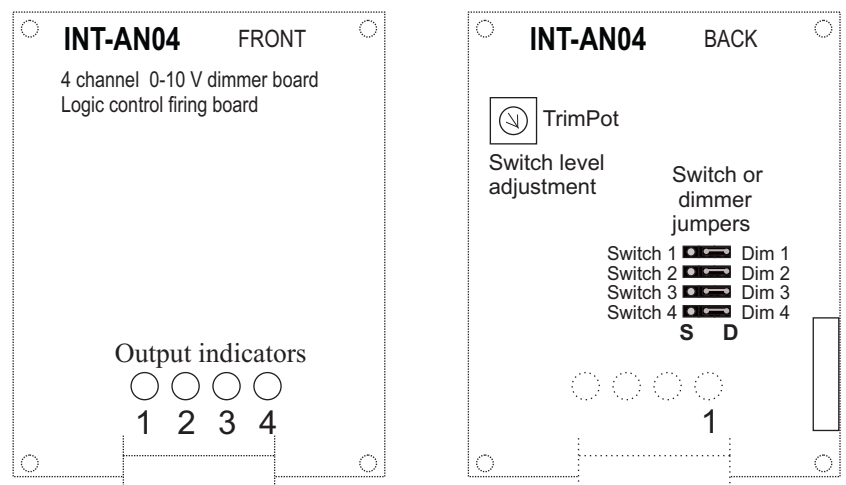
**Control Input specifications:**

1 mA. current; Response range :  
1 V = 0% ; 10 V = 100 %

**Dimmer power specifications:**

Operating Voltage: 277 VAC  
Input : 2 x 20 Amp Breaker on 1 phase  
Outputs: 4 x 2250 Watts

Figure 2 - INT-AN04 control board



Each channel of the PD408-AN10-277 could be set to dim or switch.  
4 Jumpers, 1 for each channel, are located on the back of the front cover.  
Place jumper on D side for normal 0-10V dimmer operation, place jumper on S side for switch operation.  
Switching control Voltage level could be set from 0 to 10 V with the TrimPot.

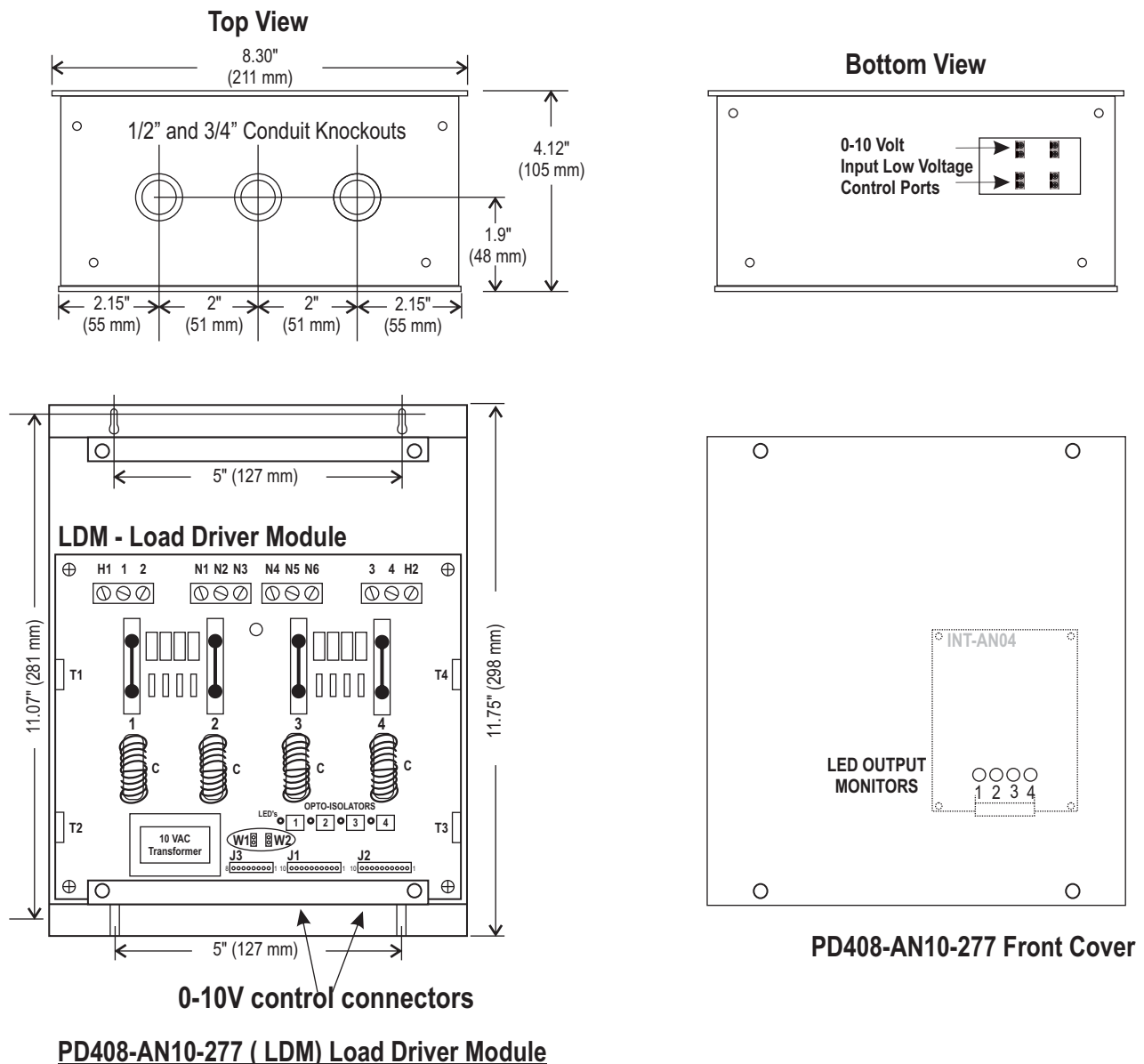
**Enclosure Installation**

Surface mount the dimmer pack in a well ventilated area where the ambient temperature does not exceed 104° F for full load operation. Allow 2" of side clearance for proper air circulation and servicing. Installation clearance shall meet local and/or NEC code requirements. Enclosures may be attached to the wall or other mounting surface by holes in the heat sink flanges. Refer to the drawings below (FIGURE 3) for the correct dimensions. Conduit shall be pulled to the top of the dimmer packs.

**NOTE**

The **PD408-AN10-277** may create a slight buzzing noise and should not be located where this is objectionable.

**Figure 3 - PD408-AN10-277 Dimensional Diagram**

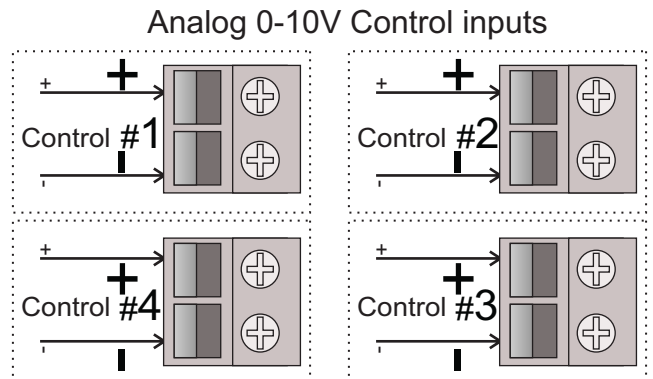


**PD408-AN10-277 General Wiring Instructions**

**Wiring Notes**

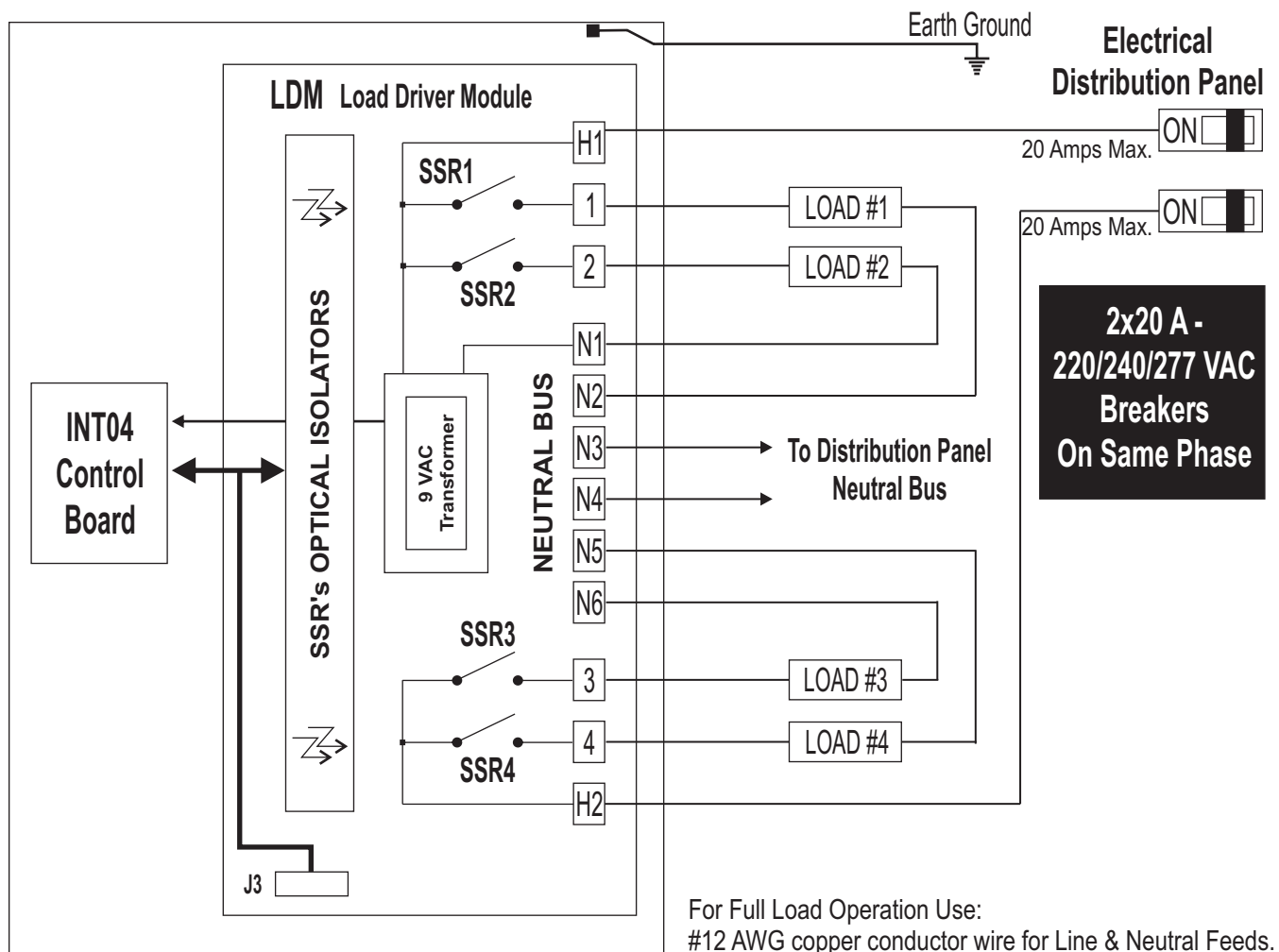
- **DO NOT EXCEED** 2216 W (8 Amps.) per dimmer output @ 277 VAC.
- All wiring between the control stations, dimmers, and other system controllers (network bus) is low voltage (NEMA Class 2)
- **PD408-AN10-277** dimmer packs may be fed by one or two 20 A (maximum) branch circuits and may have up to four separately dimmed loads.
- **Both breakers must be on the same power phase.**
- **CAUTION: DO NOT** attempt to parallel outputs to increase capacity.
- Installations must conform to local and/or NEC code requirements.
- Each load must have its own Neutral wire for full load operation.
- All line voltage wires must have copper conductors of adequate Gauge with 90° C wire insulation.
- **POWER EACH LOAD DIRECTLY BEFORE CONNECTING IT TO THE PD408-AN10-277 TO ENSURE PROPER WIRING.**

**Figure 4 - PD408-AN10-277 Typical Control Wiring.**



Optional:  
Could be also controlled with 4x 100 KOHM potentiometers .

**Figure 7 - PD408-AN10-277 Typical 277 VAC Wiring.**



For Full Load Operation Use:  
#12 AWG copper conductor wire for Line & Neutral Feeds.  
#14 AWG copper conductors in/out to each load.  
Max. Load: 8 Amperes per output.

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## LIMITED WARRANTY

**Digital Lighting Systems**, warrants to the purchaser that its products have been carefully manufactured and inspected and are warranted to be free from defects of workmanship and materials when used as intended. Any abuse or misuse contrary to normal operation shall void this warranty.

Digital Lighting Systems' obligation under this warranty shall be limited to replacement or repair of any units as shall within two years of date of invoice from **Digital Lighting Systems**, prove defective; and **Digital Lighting Systems** shall not be liable for any other damages, whether direct or consequential. **The implied warranties of merchantability and fitness for a particular purpose are limited to the duration of the expressed warranty.** Some states do not allow the exclusion of the limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, you may also have other legal rights which vary from state to state.

Defective merchandise may be returned to **Digital Lighting Systems**, prepaid, after prior notification has been given and approval obtained for the return. To obtain prior approval for the return of the defective items, contact your local Digital Lighting Systems distributor, representative, or:

### **Digital Lighting Systems, Inc.**

Attn: Customer Service Department  
12302 SW 128 Ct. Bay #105  
Miami, FL 33186  
(305) 969-8442



Digital Lighting Systems, Inc.  
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[www.digitallighting.com](http://www.digitallighting.com)

Tel 305-969-8442  
Fax 305-969-8675  
e-m [info@digitallighting.com](mailto:info@digitallighting.com)

Upon request, replacement unit(s) will be shipped as soon as available. Unless immediate shipment of replacement merchandise is requested, **Digital Lighting Systems** will not ship replacement merchandise until defective merchandise is received, inspected, and determined to be defective.

**No labor charges in connection with warranty problems will be reimbursed by Digital Lighting Systems without prior written approval from the factory.**

**Digital Lighting Systems** distributors and representatives have no authority to change this warranty without written permission.

**Digital Lighting Systems** reserves the right to determine the best method of correcting warranty problems.