Digital Lighting Systems





General Description

The **PD804** dimmer pack contains **8** solid-state dimmers. Each dimmer is rated for a maximum load of **480 Watts at 120 VAC**. Power is fed to the **PD804** from two 20 Amp. breakers on the same power phase. The dimmers are triggered by 2 separate firing boards (**INT04's**). The **INT04** is a microprocessor based control board with a nonvolatile memory chip, a communications chip, and a regulated DC power supply. The **INT04** also contains, address selectors, LED output monitors and other support circuitry. The microprocessor is driven by powerful distributed intelligence software which handles all control and communications functions. The memory chip holds all of the **PD804's** pertinent information and settings which include low and high trim levels for each of the outputs. The **PD804 does not rely on any shared data source** and **functions independently** of any other system component and without a central system controller. The **PD804** communicates with Protocol system stations and controllers over a **single twisted-pair of wires** and **can be connected anywhere on the system network bus**. This adds convenience and versatility by allowing **PD804** dimmers to be installed close to their loads and/or service panels.

General Features	Control & Diagnostics	Physical and Electrical Specifications	
 Distributed Intelligence. Modular and Compact Design. Twisted-pair Balanced Line Communications. Daisy Chain, T-tap, or Star Data Configurations. Software Configurable. Automatic 50/60 Hz Detection. Dimming Disable Jumper. Powerful Built-in Diagnostics. 	 Set Load Intensity Level. Save/Recall Presets. Blink Load. Set Load Max. & Min. Trims. View Max. & Min. Trim Settings. View Current Output Levels. View ID and Code Version. Default to Factory settings. Save Settings in memory. Download Configuration File. Check Status. 	Enclosure: Weight: Power Feed: Phase Voltage Feed: Output Rating: Output Triacs: Connector: Data Network: Protocol. Data Retention: ESD Protection:	 16 Gauge Aluminum. 4.5 Lbs. (2 Kgs.) 2 x 20 Amp. Feeds. Single 120 VAC, 50/60Hz, Single Phase. 8 x 480 Watts at 120 VAC. Max. Rating 40 A-600 VAC 18-position screw terminal block. RS485 Compliant, Proprietary 10 years, no batteries required. 15 KV on data input and output.

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8 x 500Watts dimmer pack SPECIFICATIONS

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Mounting Requirements

Surface mount the dimmer pack in a well ventilated area. Allow 2" of side clearance for 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 drawing on the front side of this sheet for the proper dimensions. Conduit shall be pulled to the top of the dimmer packs.

Wiring Notes

- 1 DO NOT EXCEED 480 W per each output dimmer.
- 2 All wiring between the control stations, dimmers, and other system controllers (network bus) is low voltage (NEMA Class 2) and may be run with two twisted pair #18 AWG wire. Control network bus may be Carol Cable #C3362 unless otherwise required. Consult the Protocol Hardware Installation manual, appendix E, for maximum wire length.
- ³ When system is fed by 120V/208V three phase service, **the 2 breakers must be on the same power phase**. The voltage from any input terminal to neutral must not be greater than 120 VAC. The voltage between H1 and H2 should be Zero.
- 4 **PD804** may be fed by two 20 A breakers from the Same phase and may have up to eight separately dimmed loads.
- 5 Please refer to the **PD804** and Protocol system installation manuals for complete wiring information.
- 6 **CAUTION: DO NOT** attempt to parallel outputs to increase capacity.
- 7 Installations must be performed by a certified electrician and conform to local and/or NEC code requirements.
- 8 Power for all control stations of a system must be on the same phase. Bus may be Carol Cable #C3362 or equivalent unless otherwise required. Consult the Protocol Hardware Installation manual, appendix E, for maximum wire length.
- 9 RJPD-6' RJ45 Daisy-Chain Network Cable is supplied with each PD804 to connect to other PD Series units.



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