



6 CHANNEL DMX CONTROLLED DIMMER

Technical Specification Sheet

DESCRIPTION

The Jands HPD represents a fully featured power product designed for the remote control of all dimmable mains powered equipment.

The HPD will operate from a nominal 100 to 240VAC supply with a variety of output connector options. Additionally the HPD may be powered from two phase power supplies while maintaining equal numbers of channels per phase, and will operate from mains power supply frequencies of between 40 and 66Hz with no setting changes.

The HPD has been designed with flexibility and ease of use as a priority. The high brightness display ensures the product is easy to use in dark environments, while the feature set has been optimised for use in all applications.

The HPD provides many features found in top-end products. Current control algorithms reduce the instance of circuit breaker drop-outs due to cold lamp inrush, while dual speed-controlled fans, extremely high performance mains filtering, and a soft over-temperature cut-out eliminate problems before they appear to the operator. DMX RDM support is provided.

FEATURES

- DMX-512 digital control protocol with RDM functionality allows remote configuration and status readback
- Soft over-temperature cut-out
- Dual temperature controlled DC fans
- Third-order active filters eliminate mains noise issues
- DMX-512 address by start channel
- Inbuilt DMX-512 terminator
- Two DMX snapshots (scenes)
- Dimming curve set for linear relationship between control Input and output power
- Multiple phase power operation modes
- Low acoustic/electrical noise
- Operates from wide mains supplies 100V to 230VAC, 40 to 66Hz

SPECIFICATIONS

Channels	:	6
Power Rating	:	25A per channel
Mains type	:	1, 2, or 3 phase with neutral
Mains Voltage	:	100 to 240 VAC +/-10% phase to Neutral
Mains Frequency	:	40-66Hz
Operating Temp	:	0 - 40°C max
Output Protection	:	Thermal-Magnetic circuit Breaker per channel. Optional combined thermal-magnetic breaker plus 30mA RCD
Control Input	:	ANSI E1.11:2004 DMX512A ANSI E1.20:2006 RDM
Input Connector	:	5 pin AXR with loop through
Dimmer Curve	:	Linear Power
Snapshot scenes	:	2
Output rise-time	:	330µs, 10-90% @ 240VAC
Dissipation	:	<1.0% of output load
User Interface	:	3 x 7 segment red LED + 4 switches
Indicators	:	3 x blue, 2 x bicolour, 1 red, 1 x green
Start Channel	:	Any number from 1 to 512
Ingress Protection	:	IP20
Dimensions (mm)	:	478(W) x 350(D) x 133(H)
Net/shipping weight	:	Approx 28kg (Dependant upon the configuration)

SUPPLIED ACCESSORIES

- 2 metre 3-phase lead and P550 or equivalent plug. Note: lead and plug not supplied with hardwire product
- 2 x heavy duty rear mounting support brackets
- User Manual

ORDERING INFORMATION

MODEL/PART	PART NUMBER
25A/330us/SCR/P550/Australian Output	JND-HPD6-AZ200
25A/330us/SCR/P550/Socopex Output	JND-HPD6-AZ201
25A/330us/SCR/Hardwired Input and Output	JND-HPD6-AZ202



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6 CHANNEL DMX CONTROLLED DIMMER

ARCHITECT & ENGINEER'S SPECIFICATION

Electronics

The dimmers shall receive and decode six (6) control channels complying with the industry standard ANSI E1.11 DMX512-A protocol. The dimmer shall also provide support for ANSI E1.20 RDM.

A digital display and miniature switches shall be used to select the DMX start channel, control the test functions, and set other operating modes. The start channel shall be able to be set to any valid DMX number from 1 to 512. The DMX circuitry shall incorporate an internal terminate facility that when activated minimises signal reflections on long data control lines.

If the DMX signal is interrupted, the dimmer outputs shall default to hold the last received DMX packet. The operator may configure the dimmer so that if control is not restored the dimmer fades to a programmable snapshot. In either case if control is not restored within 10 minutes the DMX controlled outputs shall be driven off.

Each output channel shall contain a dimmer element that matches the control input to power output in a linear relationship. Each of the identical dimmer elements shall control loads from 25 watts to the rated maximum, and utilise acoustically quiet toroidal chokes.

For heatsink temperatures above 50°C the temperature controlled fans shall run at full speed. A full thermal shut-down shall occur when the heatsink temperature exceeds 100°C. In addition the output levels shall be reduced as the temperature approaches the upper limit.

The dimmer shall have a control response time of not more than fifty (50) milliseconds, input to output.

Electrical

The dimmers shall operate from a single, dual, or three-phase plus neutral and earth AC supply of between 100 and 240 VAC +/-10% phase-to-neutral with a frequency of between 40 and 66 Hz. Third-order active filters shall minimise the effect of mains-borne noise on the dimmer output. Each channel shall be protected by a miniature thermal-magnetic circuit breaker.

The dimmers shall be factory tested and cyclically burned-in for a minimum of 24 hours.

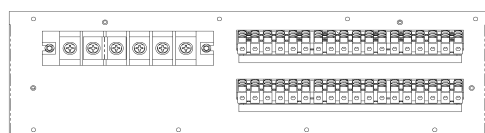
Mechanical

The dimmers shall be designed to mount in a standard 19-inch equipment rack, and be 478mm wide x 350mm deep x 133mm (3RU) high.

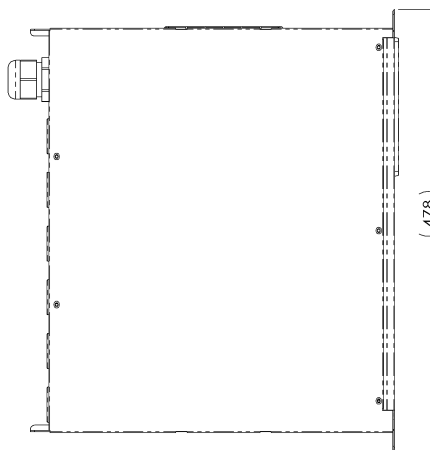
The chassis shall be constructed primarily from 1.2 mm steel, and shall be provided with a removable lid for access to internal electronics. All metal surfaces shall be properly treated and finished in powdercoat or zinc plating. Rear support brackets shall be provided as standard.

The control surface shall be scratch-resistant 0.25 mm polyester with legends printed from behind.

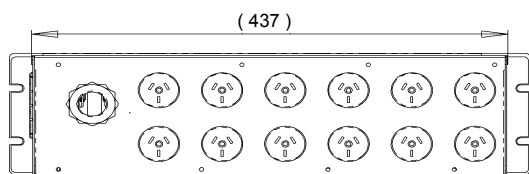
The power control products shall be designed to operate in ambient temperatures not greater than 40°C. Adequate ventilation must be provided.



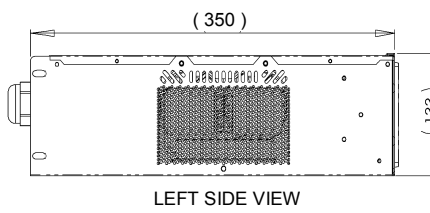
REAR VIEW - Hardwire Version



TOP VIEW



REAR VIEW - Australian Outlet Version



LEFT SIDE VIEW