Alpha Pack 2 Owners Information

Introduction

The Zero 88 Alpha Pack 2 is a 3 channel power controller capable of driving up to 6.3 Amps of lighting control per channel.

The total current consumption of the Alpha Pack 2 is factory set to a limit of 10, 13 or 16 Amps depending on the version.

The loads may be resistive or inductive and include tungsten, transformer driven low voltage and quartz halogen. Some highly inductive loads such as neon will require a ballast load of at least 100 Watts.

Controls

Input Signal Connectors

The Alpha Pack 2 features both analogue 0 to + 10V and DMX 512 Control.

Analogue
The input signal connector is via an 8 pin ring locking din normally providing 6 channels of control. The connections are;

Pin	Channel
1	1
2	2
3	3
4	4
5	5
6	6
7	Supply Voltage
8	0V

DMX512
The input connector is via a 5 pin male XLR with loop-through on a 5 pin female XLR. The connections are;

Pin	Channel
1	0V
2	Data –
3	Data +
4	Not used (Linked between male and female connectors)
5	Not used (Linked between male and female connectors)

Analogue Input Channel Selection Channel Selection

The position of the switch on the base of the Alpha Pack 2 determines whether the Alpha Pack 2 responds to input channels 1, 2 and 3, or channels 4, 5 and 6 of the analogue input, shown by the LED indicator on the front panel.

The “Through” connector allows the packs to be daisy chained together.

DMX Features

DMX Start address Switch

This sets the DMX start channel for the pack in increments of 3 as shown in the following table. A small screwdriver or trim tool is required to adjust the address settings.

Switch Setting	Start Address
0	1
1	4
2	7
3	10
4	13
5	16
6	19
7	22
8	25
9	28

DMX OK LED

Off	No DMX data received
Slow flash	DMX data errors occurring
Fast flash	DMX data is being received, but is not dimmer data (start code non-zero)
On	DMX dimmer data is being received OK.

DMX Termination

No termination is provided on the Alpha Pack 2. Termination of the DMX line can be achieved by inserting a termination plug (Zero 88 order code: 00-269-00) into the loop through connector.

DMX fail

In the event of the loss of DMX input, the outputs will fade to zero over 1 second. Please note that the control values from the analogue inputs and channel faders will continue to be mixed on a highest-takes-precedence basis.

Overload Settings

A current detection circuit monitors the input current to the Alpha Pack 2 at all times to protect the machine from being inadvertently overloaded.

The total current limit for each machine is factory set as follows;

Socket Type	Current Limit
Danish	10 Amps
UK	13 Amps
CEE 22	13 Amps
Swiss	13 Amps
French	16 Amps
Schuko	16 Amps

Should an attempt be made to overload the Alpha Pack 2, the outputs of all three channels will be reduced, and the “overload” led will be illuminated.

Fusing of Inductive Loads

All inductive loads (e.g. pinspots, transformer driven lamps) must be fitted with a separate fuse of the correct value per lamp or fitting.

Failure to fit the correct fuse may mean that any supply disturbances could destroy the lamp transformer. A good earth connection is essential.

Technical Specifications

Electrical
The Alpha Pack 2 is designed to operate on 200 – 260V single phase AC supply at frequencies of 50 or 60Hz (factory set). The Alpha Pack 2 may not operate satisfactorily outside these conditions.

Power Input	Via fixed 3m cable
Max Current	Limited to 10/13/16A (+/- 1.5A)
Load per channel	0.2A Min; 6.3A Max
Max. load per channel	1.44kW @ 230V
No Load consumption	6W
Input signals	0 to + 10V Analogue / DMX 512 - 1990
Desk Supply	+20V @50mA
Min Input Impedance	80kÙ
Earth Leakage	<1mA

Interference Suppression to BS800

Physical

Operating Environment	+5 to +40°C (non condensing)
Size	315 x 240 x 82mm (12.4 x 9.5 x 3.2 inches)
Net Weight	3.5kg (8lbs)

This equipment is designed for professional stage lighting control, and is unsuitable for any other purpose. It should be used by, or under the supervision of, appropriately qualified or trained persons only.

Zero 88 Lighting Ltd reserves the right to make changes to the equipment described in this manual without prior notice. (E&OE).

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