QPACK, 6 x 2kW. (standard and local control versions) (English)

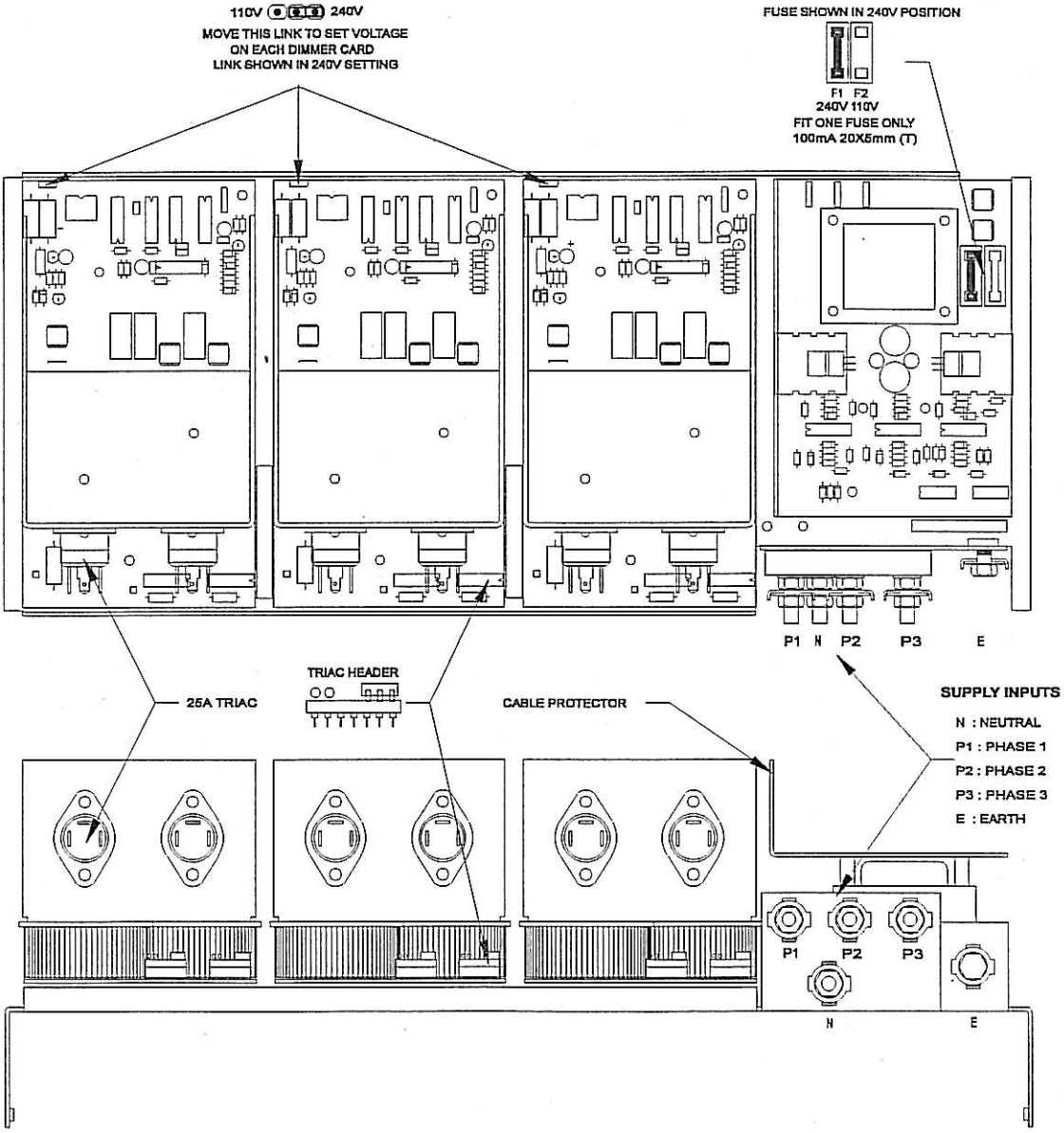
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LP/QP/ENG/2/96

TOP & FRONT VIEWS OF CHASSIS





WARNING: Isolate completely from the mains supply before removing the front or rear panels.

▪CARTON CONTENTS

1 x Q Pack Dimmer
1 x Instruction manual
2 x Rack cheeks with screws
4 x Stick-on feet
1 x Busbar for single phase wiring

▪OPENING THE UNIT

1. Remove the screws along the top and bottom edges of the front panel.
2. Pull out the front panel approximately 100mm.
3. Lift the front panel gently and then allow it to pivot down.

▪SUPPLY WIRING

The supply cable must enter the unit via a cable gland, fitted to the rear panel and must then be placed over the cable protector.

Cut-outs have been made in the rear panel to allow the fitting of a 20mm. or a 32mm. cable gland. The rear panel may be removed to allow for the securing of the gland.

Ensure that, when the front panel has been pulled out approximately 100mm., there is no slack in the cable.

***IMPORTANT*: A separate mains isolator and secure mains earth are essential.**

INTERNAL WIRING

P1 = Phase 1, P2 = Phase 2, P3 = Phase 3, N = Neutral, E = Earth

Single Phase

Using the busbar provided, bridge terminals P1, P2 and P3 together. Connect the live supply to terminal P2, the neutral to terminal N and the earth to terminal E situated to the right of the terminal block.

Three Phase, Star

Connect the red, yellow and blue wires to terminals P1, P2 and P3. Connect the neutral wire to terminal N and the earth wire to termi nal E.

Three Phase, Delta

Remove the three internal wires from terminal N. Connect them to the terminals P1, P2 and P3 according to their colour coding. The internal wires should be placed under the copper clamp washers.

Connect the red, yellow and blue supply wires to terminals P1, P2 and P3. Connect the earth wire to terminal E.

IMPORTANT

(1) The N (neutral) terminal is not used when the Q Pack is wired for three phase Delta operation.
(2) When the Q Pack is wired for three phase operation (Star or Delta), the busbar provided is not used.
(3) In all cases ensure that the supply wires are securely clamped between two copper clamp washers on each terminal. Ensure that lockwashers are used.
(4) The phase to neutral voltage must not exceed 120/240V., 60Amps. total, 20Amps. per phase maximum.

INTERNAL LINKS AND FUSES

The phantom power supply is fitted with a 500mA Quick-blow (T) 20mm. x 5mm. fuse. This is situated on the inside face of the front cover on the right.

TO SET THE SUPPLY VOLTAGE (See Diagram at Front)
Move voltage links to the left for 110-120V. operation, and to the right for 220-240V. operation.
Where no link is fitted the unit will operate on 220-240V. only.

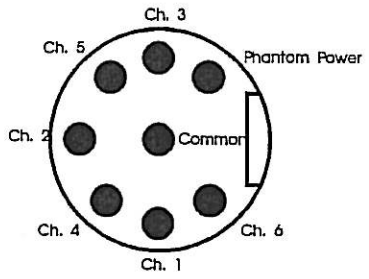
Move the single input fuse (situated under the cable protector) to the left-hand fuseholder for 220-240V. operation, and to the right-hand fuseholder for 110-120V. operation.

IMPORTANT: One mains fuse only to be fitted. Fuses are 100mA anti-surge (T).

▪FRONT PANEL CONTROLS

Control input is via an 8-pin locking DIN socket wired as follows:-

PIN	CHANNEL	
	Analogue	DMX
1	1	True
2	2	
3	3	
4	4	Invert
5	5	
6	6	
7	Phantom supply, max. 18V 300mA.	
8	Common, 0V.	



IMPORTANT: Note that the phantom power supply is not autosensing and is therefore always nominally +18V. Consequently the phantom supply should not be used with desks requiring a negative voltage.

The phantom supply is limited to 300mA at 18V. As a result it will be necessary to use more than one Q Pack for phantom power, depend ing on the power requirements of the desk being fed.

- **PREHEATS**

  These may be accessed by means of a small flat-bladed screwdriver. Turn the pre-heat trimmer clockwise to increase the level of pre-heat. Note that pre-heat allows a channel to be set to full-on to facilitate the positioning and/or focusing of lamps.

- **CHANNEL TEST CONTROLS**

  Standard Version

  Push the test button to flash a channel to full brightness.

  Local control Version

  The sliders perform the functions of the test switches.

- **FUSES**

  Output fuses are 10Amp. 32mm. x 6mm. ceramic, U.L. rated and must be replaced with U.L. types only.

  DO NOT ATTEMPT TO CHANGE A FUSE WHILE THE CHANNEL IS UNDER LOAD.

- **FUSE FAIL INDICATORS.**
  These will glow when an output fuse has blown.

- **PHASE INDICATORS.**
  These glow when each pair of channels (1&2 or 3&4 or 5&6) has a mains supply.

- **CHANNEL INDICATORS.**
  Show the level of channel output.

- **SLIDERS** (Local Control Version only)
  The overall level of output from the Q Pack is controlled by the master slider. The other six sliders control one channel each. Note that if the master slider is set at 50%, a channel slider at 50% is outputting 50% of 50%, i.e. 25%.

▪VENTILATION

RACK MOUNTED

When a Q Pack is rack mounted in an enclosed rack, a fan MUST be used to ensure adequate air circulation. The fixing screws for the rack cheeks must be M5 x 10mm long maximum.

FREE STANDING

Two Q Packs may be stacked in free air.

▪DMX EXPANSION CARD

FITTING THE DMX CIRCUIT BOARD

The DMX board replaces the pre-heat board situated on the right hand side of the front cover. Replace the pre-heat board as follows:-

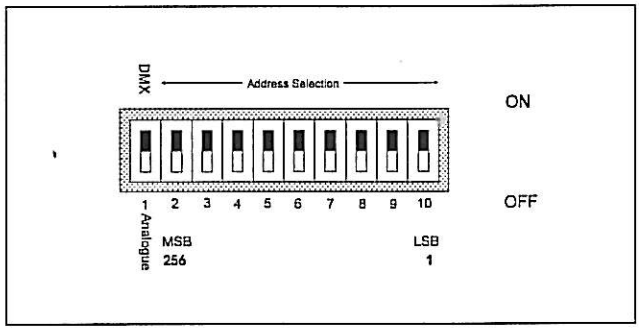
- Unplug the two ribbon cables from the input and pre-heat output connectors on the board.
- Remove the six screws situated on the right hand side of the out side face of the front panel.
- Now remove the the pre-heat board.
- Remove the blanking plate (situated below the lettering DMX ADDRESS by removing the screw situated below the lettering DMX.
- Position the DMX board in the space vacated by the preheat board and replace the six fixing screws (M3 x 6mm).
- Re-connect the ribbon cables.

OPERATION OF THE DMX BOARD

The DMX board has pre-heats and test buttons which work in the same way as those on the pre-heat board. It can be operated in analogue or DMX mode. Switch no. 1 on the DIL switch determines the operating mode. UP=DMX, DOWN=ANALOGUE. See the table on page 4 for pin/channel connection details.

SELECTING THE DMX ADDRESS

DIL switches 2-10 on the DMX board are used to select the DMX address. The address is selected in binary form. Switch 10 is the least significant bit (LSB) and switch 2 is the most significant bit (MSB). When switches 2 to 10 are in the down position, the address is set to the first of the 512 DMX channels. This means that the binary number selected on the DIL switch will be one less than the actual DMX channel. For example, to select DMX channel 12 (in order that the pack outputs to DMX channels 12-17), the DIL switch is set to binary 11, which is expressed as 000001011 i.e. switches two to six are in the down position, seven is up, eight is down, nine and ten are up.



DMX LED INDICATOR

This LED illuminates when true DMX is being received.

PHANTOM POWER WHILE USING DMX

Each Q Pack can supply phantom power but note that only four Q Pack phantom power supplies should be linked, i.e. the first four Q Packs in the DMX chain. Disconnect other Q Pack phantom supplies by ensuring that pin no. 7 on the DIN plug is not connected.