

## **Technical Specifications**

### **Dimmer**

The dimmer unit shall provide 24 channels of dimming control, each channel rated at a maximum of 10A. Each dimmer channel shall be designed to run at 100% duty cycle.

The dimmer shall have a waveform rise time of not less than 80 S for each circuit, and shall be capable of dimming resistive and inductive loads and dimmable electronic transformers compatible with leading edge dimmers.

Pro version shall provide neutral disconnect breakers.

Each dimmer channel shall be protected by a 10 amp thermal magnetic circuit breaker.

All circuit breakers shall have a 6000A breaking capacity.

The dimmer shall provide for the option of a fitted RCD

DMX input shall be via a terminal block.

It shall be possible to switch DMX termination in or out internally.

DMX start address shall be set from the front panel user interface. It shall be possible to set an individual DMX address per channel.

DMX present and DMX error information shall be provided on the LCD display.

The dimmer shall provide four dimming laws: normal, square These laws shall be selectable per channel via the user interface.

It shall be possible to dictate the actions of the dimmer in the event of DMX control signal loss via the front panel user interface.

Options shall be given to hold the last known lighting state, fade to one of the user defined on board memories over 3 seconds or fade to black in 3 seconds.

Using the front panel user interface it shall be possible to test each channel of the dimmer and to adjust each channels test level.

The dimmer channel preheats shall be adjustable on an individual basis.

The dimmer shall operate in two modes – Entertainment or Networking.

In Entertainment mode it shall be possible to store up to 12 memories in the dimmer by grabbing the current DMX levels of all channels.

It shall be possible to create up to three 12 step chase sequences comprising any of the 12 on board memories.

It shall be possible to play back any of the 12 memories or 3 sequences via the user interface.

It shall be possible to set a topset level per channel.

In Network Mode it shall be possible to create up to 10 Areas or Zones and create a Master Area for overall control of these Areas.

Each Area shall be capable of storing 12 memories.

It shall be possible to assign 3 sequences per dimmer.

The dimmer shall feature an alarm input for use with emergency systems.

It shall be possible to select the DMX interface relationship per Area (DMX on/off, DMX takes precedence or HTP)

Dimmer outputs shall be via internal terminals, with separate live, neutral and earth connections for each channel.

The dimmer shall be convection cooled, requiring no forced air within its normal operating range.

The user interface shall comprise a backlit 16-button keypad with a 2 x 16 character backlit LCD display.

### **Electrical**

The dimmer shall operate on single or three phase mains supplies.

Power input shall be via 4 x 35mm<sup>2</sup> terminals for neutral and live and a 10mm stud for Earth.

### **Mechanical**

The dimmer shall be designed for wall-mounted use.

The dimmer shall be 632 mm wide x 155 mm deep x 1000 mm in height.

The dimmer shall be designed in two main parts, a chassis and a cover.

The chassis shall be constructed of 1.2mm gauge steel and shall contain the dimming and control electronics.

The chassis shall be fixed to the wall by 4 fixings, the uppermost being of a keyhole type to enable simplified installation.

The front panel shall be designed for easy removal to facilitate installation and access to the electronics for maintenance.

The dimmer cover shall be constructed using 1.2mm gauge steel.

The cover shall be fixed to the chassis by 4 screws.

A hinged, lockable panel shall be provided to cover the circuit breakers, RCD and user interface.

All metal surfaces shall be properly treated and finished with specialist paints or powder coat.

The dimmer shall have knockouts for cable entry on the top and bottom panels. T

he size of knockouts shall be:

Top= 5 x Ø50mm.

Bottom = 3 x Ø50mm.

MCB's and user interface shall be located on the front panel of the dimmer.

The normal operating environment for the dimmer shall be +5 C to +40 C.