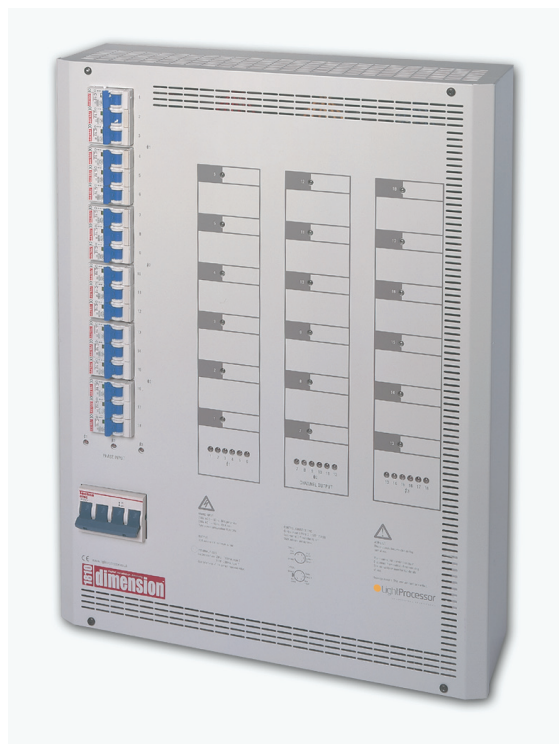


Description



This innovative range of leading-edge dimming has been specifically designed to offer both features and performance not normally available at this price level. Delivering an affordable quality product for the customer who primarily demands no more than absolute reliability in a whole range of diverse applications.

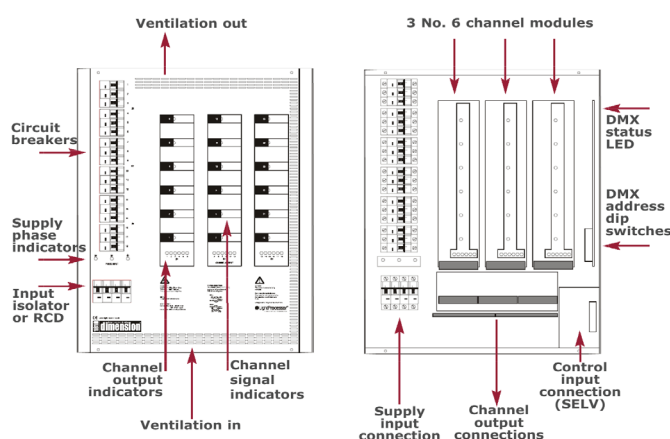
Compact in size, sleek clean lines and ease of installation make this range the smart choice ideally suited to both the architectural and entertainment sectors. Channel identification, visual status indicators and circuit breakers are standard. RCD and neutral disconnect protection options allow this product to be specified into any environment. Three individual 6 channel modules allow the unit to be configured specifically for each project. Two standard modules can be set for dimming or switching. Alternatively, dedicated modules are available for 1-10v fluorescent control and relay contact switching.

The unit is supplied complete with wall mount brackets that allow both fast and accurate fixing of single or multiple units. Installer & maintenance friendly features make this the "low cost" option both during installation and for years afterwards.

Key Features

- Single or Three phase operation
- Outputs rated for any type of inductive or resistive load
- 100% duty cycle
- Microprocessor managed
- Thermostatic fan cooling
- USITT DMX512 input standard
- Emergency lighting subcircuit wiring
- Non-Dim options
- Easy installation and servicing
- Smart cabinet
- Removable base access panel for power wiring
- Test and pre-heat functions
- Optional output 'hold' or 'clear' on DMX input signal failure
- 6 channel model available in dimming or switching versions with internal HRC fuse protection

External / Internal views:



Model	Dimensions (mm)	Weight (kg)	Packed
1806	575 x 435 x 145	18.0	720 x 570 x 295mm 21.0kgs
1810	575 x 435 x 145	18.0	720 x 570 x 295mm 21.0kgs

Tender Specification:
Technical specification:

Power Supply	Single Phase, or Three Phase (Star)															
Voltage Range	Selectable - 230V or 115V nominal AC - single phase 415V or 220V nominal AC - 3phase															
Supply Frequency	45-65Hz (50/60Hz operation user selectable)															
Control Input	USITT DMX512(1990) - (additional input options available)															
DMX Channel map	18 contiguous channels from start address															
Power Consumption (max. kW)	<table border="1"> <tr> <td>Supply / Model</td> <td>1806</td> <td>1810</td> </tr> <tr> <td>Single Phase 115V</td> <td>11.5</td> <td>11.5</td> </tr> <tr> <td>Single Phase 230V</td> <td>23.0</td> <td>23.0</td> </tr> <tr> <td>Three Phase 115V</td> <td>12.4</td> <td>20.7</td> </tr> <tr> <td>Three Phase 230V</td> <td>24.8</td> <td>41.4</td> </tr> </table>	Supply / Model	1806	1810	Single Phase 115V	11.5	11.5	Single Phase 230V	23.0	23.0	Three Phase 115V	12.4	20.7	Three Phase 230V	24.8	41.4
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Three Phase 230V	24.8	41.4														
Maximum input current	Single Phase - 100A Three Phase - 180A															
Dimming Capacity	18 Channels 1806 - Each channel 6A max. continuous use 1810 - Each channel 10A max. continuous use Resistive or inductive															
Minimum load	60W per channel															
Output Connectors	Unpluggable screw terminal block - 2 No. 4mm. per output															
Output Protection	Type C thermo/magnetic mcb. 10kA breaking capacity.															
Input Connector	Screw terminal block - 10mm.															
Input Protection	4 pole isolator standard - 30mA RCD option available															
Construction	Polyester coated steel - Colour: RAL 7035															
Environment	<ul style="list-style-type: none"> • Temperature 0-30.C • Relative Humidity 0-90% non-condensing • Pollution Degree 2 • Installation Category 2 • Protection Classification 1P30 															
Conformance	LVD (using EN60439 and EN60950) EMC (using EN55014 and EN50082-1)															

Model Variants

Model	Channels	Rating	Protection
1206	12	6A	10kA mcb - C curve
1210	12	10A	10kA mcb - C curve
12xx/N	12		10kA mcb - C curve - with neutral disconnect
12xx/R	12		
12xx/NR	12		10kA mcb - C curve
			10kA mcb - C curve

The unit shall be a fully digital eighteen channel dimmer with outputs limited by standard format thermal/magnetic miniature circuit breakers with a fault breaking capacity of at least 10kA. It shall be so designed as to allow any number of the circuit breakers to be changed by the installer, up to the maximum stated rating of the model, in order to comply with installation and regulatory requirements. The unit shall come pre-fitted with C-curve breakers of either 6Amp or 10Amp rating.

It shall employ 'leading edge' ac power control and be capable of controlling all types of resistive or inductive loads up to the rated maximum output with a 100% duty cycle. It shall operate on either a single or three-phase supply and shall automatically detect the nature of the input and the phase order. There shall be internal links to select 230V or 115V supply options.

It shall be capable of control by USITT DMX (1990) and, with the addition of an optional module, also DRVL or 0-10V +dc analogue signals. All control inputs shall be rated as SELV.

It shall be contained in a steel enclosure with removable front plate allowing full internal access whilst the unit remains wired and fixed to the wall. The bottom face of the enclosure shall be fitted with a service plate containing 40 mm holes for the connection of cable conduits. The service plate shall be completely removable allowing open access into any adjoining trunking or chamber. Separate access on both the bottom face and the rear of the enclosure shall allow for the completely separate entry of control cables maintaining SELV compliance. The enclosure shall be finished in a powder coat, colour RAL7035.

It shall have hardwired control inputs but an optional connector plate fitted with suitable DMX and/or analogue type connectors shall be available for instances where plug-in connection is required.

It shall come pre-fitted with a 4 pole 100A input isolator which can be replaced, either before supply or once the unit has been installed, at extra cost with a 4 pole RCD rated at 100A with a trip current of 30mA. The RCD shall have a test button.

It shall mount to the wall using multi-function steel brackets that are fitted either to mount a single dimmer unit or to link-connect multiple dimmer units in such a way as to ensure a neat level installation. Brackets shall be fitted to the wall first, allowing for the positioning of cable trunking and decoration, before the unit is finally hung into position.

It shall contain three independent power dimming modules each with led indication of channel input status and triac output status. Triacs and associated driver opto-couplers incorporated in each module shall be changeable without the need to remove any wiring and with only the use of a suitable screwdriver. Triac or driver replacement requiring the use of a soldering iron is not acceptable. Each module shall be removable without the need for removing load wiring from output terminals. Microprocessor controls shall monitor the temperature on each module separately and activate individual fans only when specifically required. Fans shall pass only cool air and in an upward direction to outlets at the top of the unit. Software shall prevent the continued operation of a module that exceeds pre-set thermal levels.

It shall employ DIP switches for the configuration of:- DMX line termination, 50-60 Hz operation, module response curve (dim or switch), module test function, DMX fail mode (clear or hold), module pre-heat selection and unit DMX start address. There shall be an led to indicate the presence of a signal input as well as the operational status of any microprocessor utilised within the unit. Control electronics shall be capable of operation with the loss of any one of the three supply phases.

It shall utilise only rising clamp screw terminal connectors for all installation connections. Phase supply power shall be terminated by a connector with a cross section cable entry of no less than 10mm. Each individual output channel shall have two connectors with a cross section cable entry of no less than 4mm.. Control signal terminations shall be located in a mechanically isolated section of the cabinet and shall have a cross section cable entry of no less than 2.5mm.. The complete input connector field shall be removable as a block to allow for wiring outside the cabinet prior to plugging into place.