

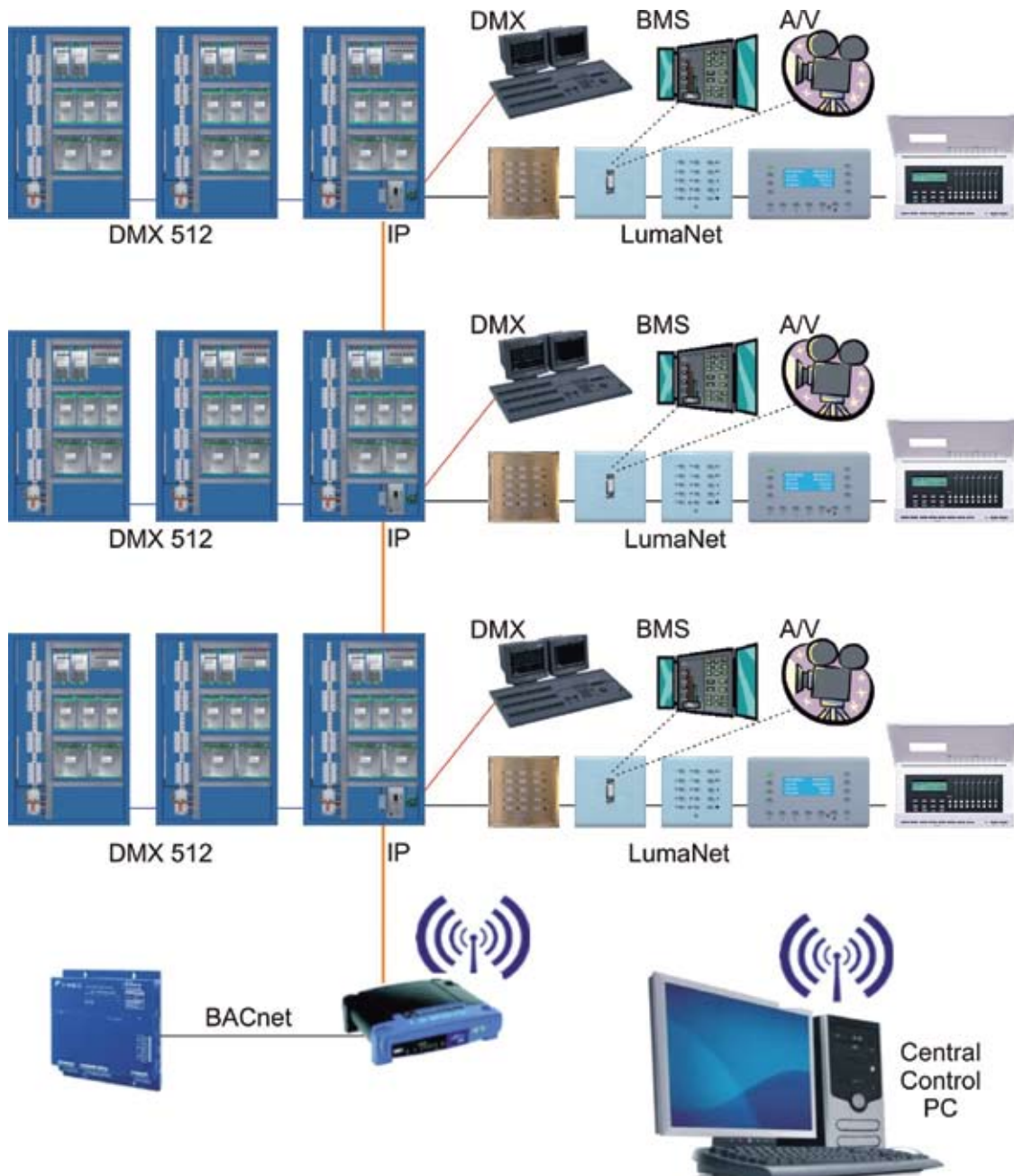
QSNet

Architectural Dimming
& Energy Management
Lighting Controls System



QNet

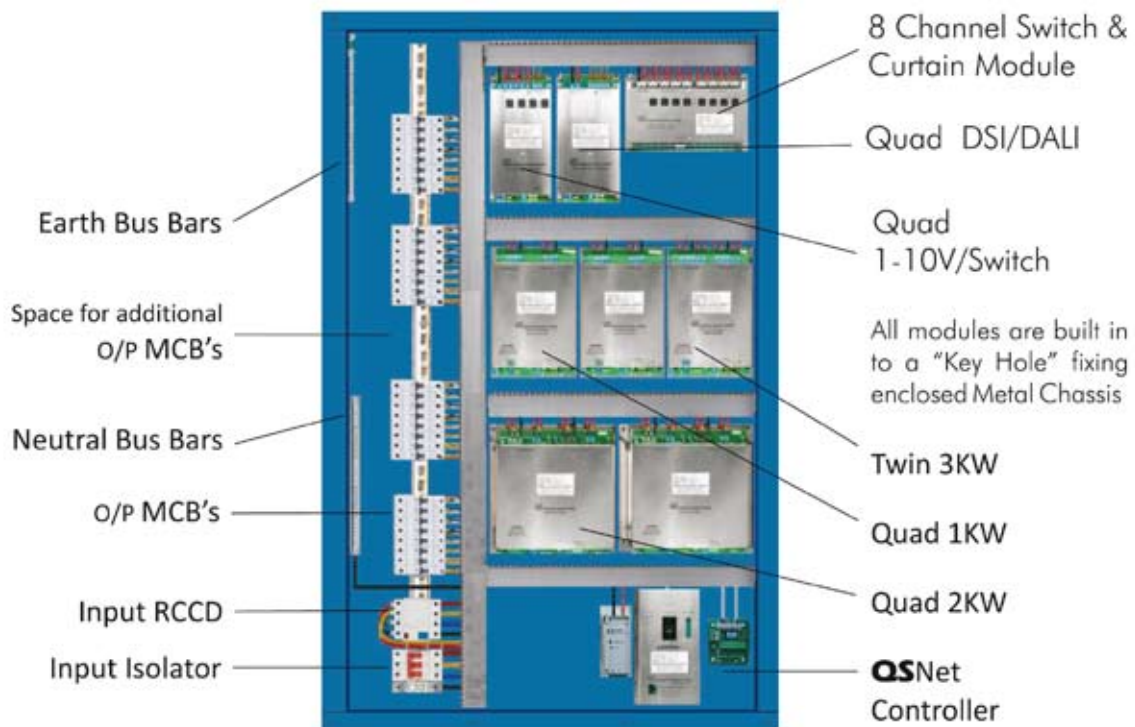
Architectural Dimming & Energy Management Lighting Control System



Each sub-net can have 126 control devices controlling 512 dimming or switching channels. 225 sub-networks can be linked via IP providing 32,130 control devices with & Astronomical Time Clock Dimming or Switching 130,560 Channels of: Incandescent LV Transformer, Cold Cathode, 1 -10V, DSI DALI & DMX loads. Plus Switching for any load with Curtain & Blind control, plus Scene Linking, Zone Combining, AV, BMS, DMX, IP/TCP I/P for BACnet and Central PC for programming with Graphical Front End.

OSNet Dimmer Cabinets

In addition to our standard ex-stock range of 2, 4, 12 & 24 channel cabinets, we will custom build cabinets to meet your particular requirements with single & three phase power supplies and I/P & O/P protection devices to comply with the local regulations. All our cabinets are designed to use the same interchangeable **OSNet** dimming and switching modules. All our dimming systems are manufactured in the UK and comply with all the applicable EC, EN5501 and EMC and Low Voltage.

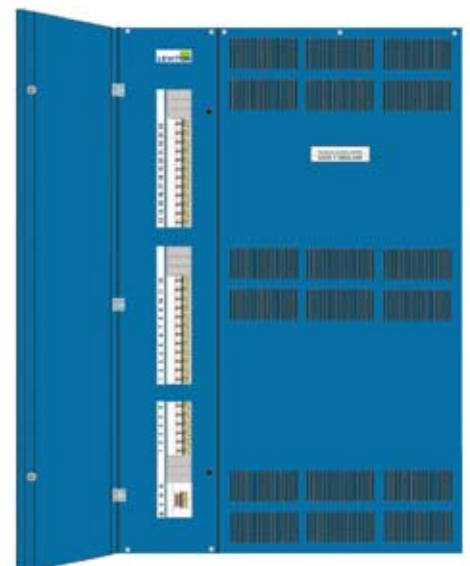


The metal construction cabinets have been designed and built for: Safety, Reliability & Serviceability. Finished in RAL 5005 Blue, epoxy polyester semi-gloss, with segregated compartments for power and control termination's. Cabinets are fitted with an I/P isolator and/or RCCD's as required and an output MCB per channel.

The MCB DIN rail is of sufficient length to allow for a 2nd I/P device & up to 25% more MCB's than dimmer channels, to be easily and quickly fitted on site, for emergency sensing, dimmer sub-ccts or clean feed distribution etc.

Ventilation is by natural convection. NO electronic item, including the choke or thyristors, are fitted directly to the cabinet to use it as a heat sink.

To comply with EC health & safety regulations the power modules and all wiring remains fully enclosed and protect when the door is opened for MCB access.



OSNet Controller

Multi Protocol Convertor



The heart of the **OSNet** Architectural Dimming & Energy Management Lighting Control System is the **OSNet** Controller providing:- Scene Linking, Zone Combining, Astronomical Time Clock, 126 user friendly Control Stations for Dimming or Switching 512 Channels of: – Incandescent, LV Transformer, Cold Cathode, 1 -10V, DSI, DALI & DMX loads. Plus Switching for any load with Curtain & Blind control, AV, BMS, DMX, IP/TCPI/P, BACnet & Graphical Front End.

QSPNet

QSP Range Programmable Control Plates



The **QSP** range of 1 to 15 button programmable control plates is part of an advanced family of **QSPNet** lighting controls. The distributed processing and network topology of this system brings the power and flexibility of networked computing to the lighting realm, enabling lighting projects of very large scale and complexity to be readily designed and controlled, enabling total integration of theatrical, architectural, and energy management lighting control systems. This highly dependable and scalable system is also appropriate for small applications that may benefit from the intuitive operation, flexibility, and attractive appearance of the QDP series of control devices.

A **QSPNet** lighting control system may also incorporate slider stations, LCD stations, theatrical lighting consoles, dimming racks, relay cabinets, photocell and occupancy sensors. Systems are programmable through the control plates or use of an offline, PC-driven editing program. Protocol converters are available to allow communications in Ethernet TCP/IP, DMX512 & Rs232.

Features

- Interchangeable clip on face plates in 10 finishes.
- Distributed processing provides enhanced reliability.
- Station retains programming information for a minimum of 10 years without power.
- Built-in IR receiver on push button stations.
- Advanced software readily permits sophisticated join/separate room combining operations.
- Four different plates are available, two, four, ten and fifteen button configurations.
- Stations with raise/lower feature enable channel & scene light level adjustment without changing programmed preset levels.
- The control plate can be programmed with various levels of security lockout.

Specifications

- All buttons are programmable and can execute any system function.
- Programmable functions include, but are not limited to:
 - Scene Select
 - Channel Select
 - Scene program
 - Room Combine
 - Scene & Channel Raise & Lower
 - Coded control plate lock out
- Programmable from the control plate or through PC-based offline editing program.
- Can address up to 2,048 dimmer channels.
- Daylight viewable Green LED buttons.
- Fits standard MK891 back box.
- Stations connected in series using Belden cable 9829 or equivalent, and two conductors for control plate power.

OSNet QSP-LCD

LCD Control Station



The QSP-LCD programmable control plate is part of an advanced family of **OSNet** lighting controls. The distributed processing and network topology of this system brings the power and flexibility of networked computing to the lighting realm, enabling lighting projects of very large scale and complexity to be readily designed and controlled, enabling total integration of theatrical, architectural, and energy management lighting control systems. This highly dependable and scalable system is also appropriate for small applications that may benefit from the intuitive operation, flexibility, and attractive appearance of the LCD control device.

- Interchangeable clip-on faceplate in a selection of colours.
- Flush mount in to standard Mk892 double gang 6 x 3 back box.
- 15 momentary push or toggle mode buttons, selectively backlit by LED's.
- Button caps are captured mechanically to prevent inadvertent removal.
- Backlit 4 line LCD display with 20 characters per line.
- Re-programmable flash memory microprocessor for storage of operating program.
- Non-volatile memory for storage of lighting control programming data.
- Can store up to 255 unique sets of lighting control programs.
- Can store the channel number, level & fade data for 2048 channels.
- Capable of having both the internal operating program updated and the lighting control program modified through the network.
- Presets can include any assigned power modules even though those power modules are assigned to other presets on the same or other stations.
- Can capture and store the current levels of assigned dimmers stored in other control stations, or external source.
- 7 passwords and 8 function security levels of protection.
- Can become a slave to any other identical station.

OSNet IR8 & IR16

8 & 16 Scene Infra Red Controllers



The **OSNet** Infrared Remote Controls have a user-friendly design to ensure comfortable hand-held usage. The Remote Control has; 8 (IR8) or 16 (IR16) Scene Presets, Scene Raise, Scene Lower, MAX and OFF selection providing easy remote control of a **OSNet** Lighting Control System up to 12M from a **OSNet** Infrared-Receiving Device. It uses four AAA batteries (not provided).

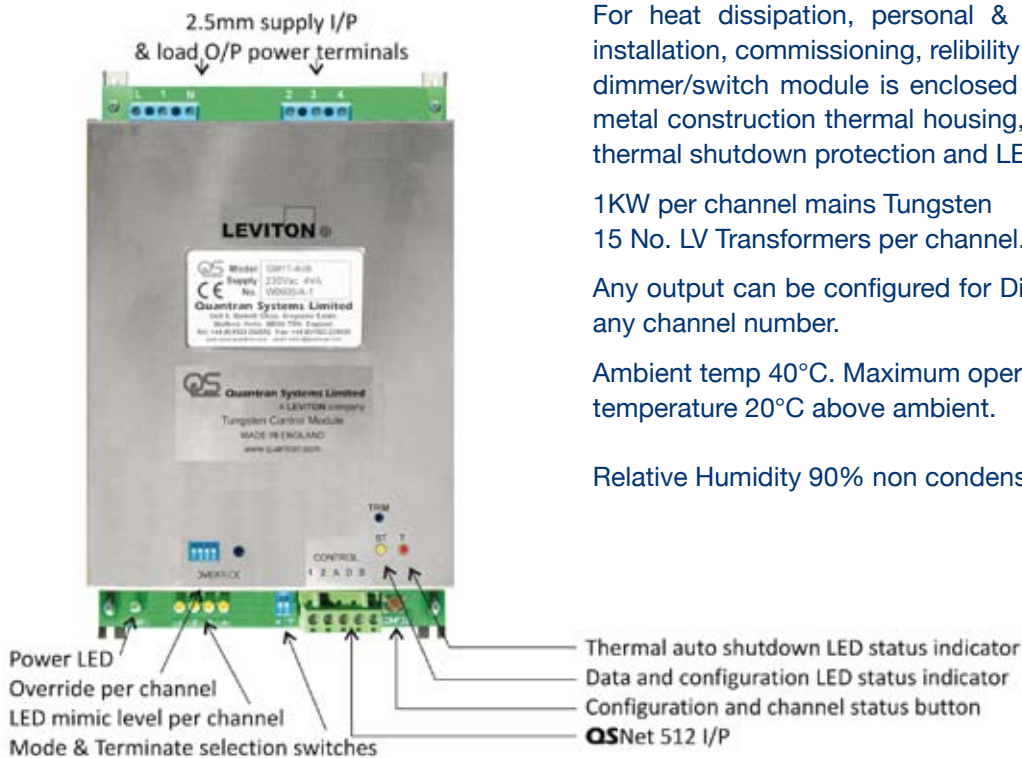
TO OPERATE

- Press button 1 to 8 (on IR8) & 1 to 16 (on 16). The lights will fade to that programmed preset scene level.
- Press the **MAX** button. The lights will fade ON to FULL BRIGHT.
- Press and hold **RAISE** button. Scene lighting will BRIGHTEN.
- Press and hold **LOWER** button. Scene will DIM.
- Press the OFF button. The lights will fade to OFF.

QSN^{et} QMT1-4UB

4 Channel 1KW per channel Dimming/Switch Mode Power Module

Any output of the QSN^{et} Quad QMT1-4UB module can be independently programmed for “Switched Mode” or “Dimming Tungsten Load”. The module is totally self contained with its own integral psu. The module can be fitted with protection devices as required, into its own stand alone case, or, into a cabinet with any other **Quantran QSN^{et}** power modules.



For heat dissipation, personal & equipment safety, ease of installation, commissioning, reliability & servicing, the QMT1-4UB dimmer/switch module is enclosed in its own 4 keyhole fixing, metal construction thermal housing, with overheating automatic thermal shutdown protection and LED status indicator.

1KW per channel mains Tungsten
15 No. LV Transformers per channel.

Any output can be configured for Dimming or Switch Mode and any channel number.

Ambient temp 40°C. Maximum operating temperature 20°C above ambient.

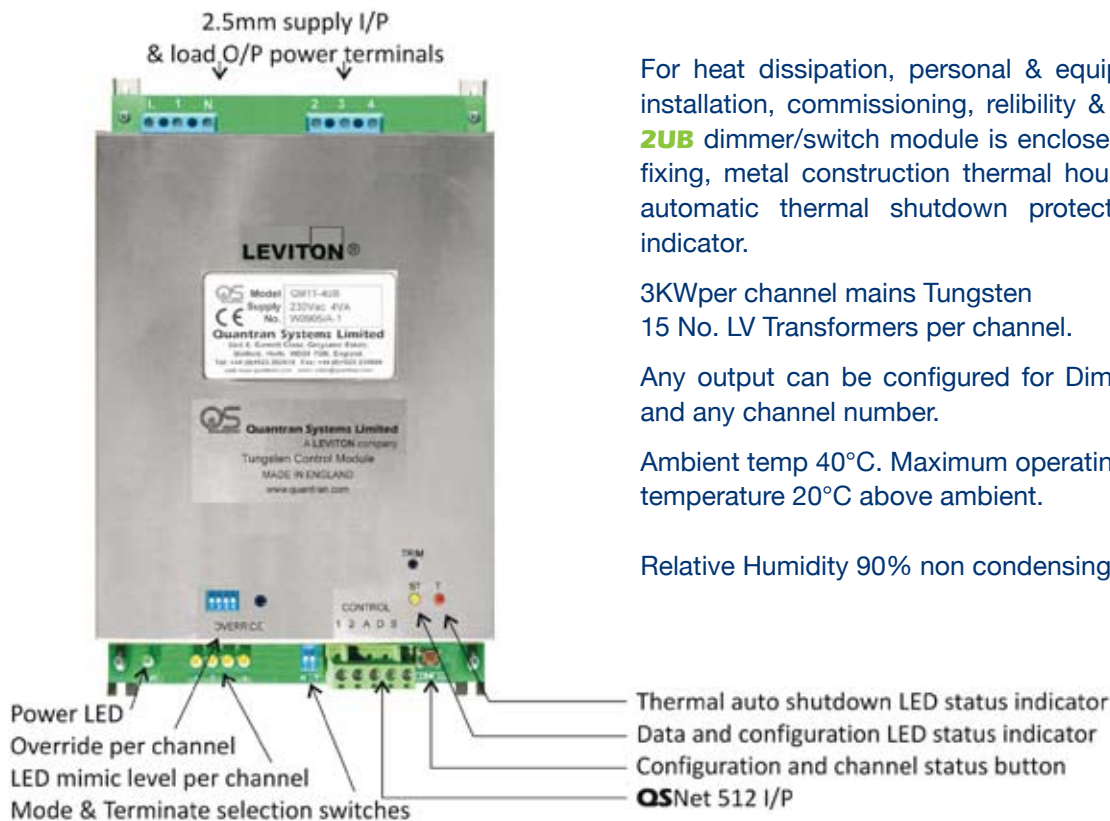
Relative Humidity 90% non condensing.

- The QMT1-4UB has an inbuilt “Control System Supervisor” which maintains the last level selected on each channel and flashes the status LED when it detects the loss of control data input. After a power loss, on restoration the system will restore each area to the “Last scene selected” prior to the power loss.
- The metal construction of the QMT1-4UB Dimmer/Switch module has been designed and built for safety, reliability & serviceability with top & bottom keyhole fixings. Ventilation is by natural convection, NO electronic item, including the choke or stack, are fitted directly to the cabinet to use it as a heat sink.

QSN^{et} QMT3-2UB

2 Channel 3KW per channel Dimming/Switch Mode Power Module

Any output of the QSN^{et} Quad QMT3-2UB module can be independently programmed for “Switched Mode” or “Dimming Tungsten Load”. The module is totally self contained with its own integral psu. The module can be fitted with protection devices as required, into its own stand alone case, or, into a cabinet with any other **Quantran QSN^{et}** power modules.



For heat dissipation, personal & equipment safety, ease of installation, commissioning, reliability & servicing, the QMT3-2UB dimmer/switch module is enclosed in its own 4 keyhole fixing, metal construction thermal housing, with overheating automatic thermal shutdown protection and LED status indicator.

3KWper channel mains Tungsten
15 No. LV Transformers per channel.

Any output can be configured for Dimming or Switch Mode and any channel number.

Ambient temp 40°C. Maximum operating temperature 20°C above ambient.

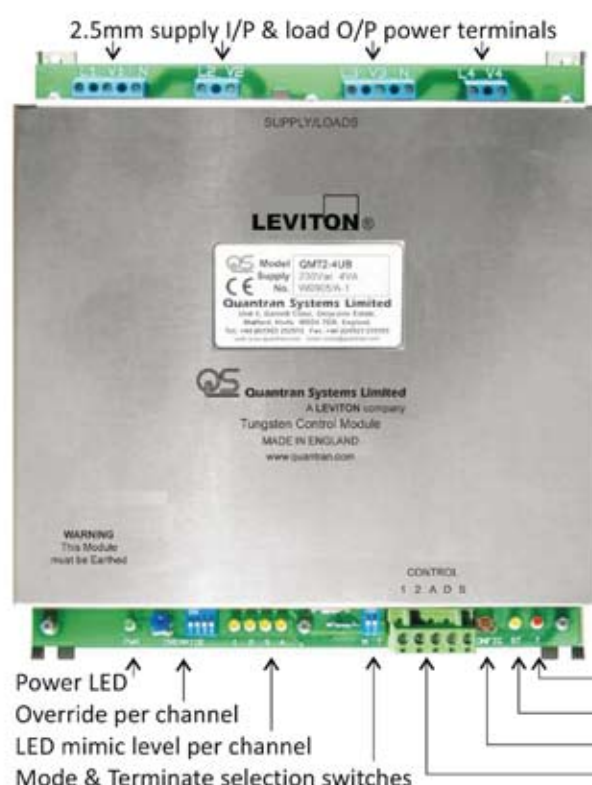
Relative Humidity 90% non condensing.

- The QMT3-2UB has an inbuilt “Control System Supervisor” which maintains the last level selected on each channel and flashes the status LED when it detects the loss of control data input. After a power loss, on restoration the system will restore each area to the “Last scene selected” prior to the power loss.
- The metal construction of the QMT3-2UB Dimmer/Switch module has been designed and built for safety, reliability & serviceability with top & bottom keyhole fixings. Ventilation is by natural convection, NO electronic item, including the choke or stack, are fitted directly to the cabinet to use it as a heat sink.

OSNet QMT2-4UB

4 Channel 2KW per channel Dimming/Switch Mode Power Module

Any output of the OSNet Quad **QMT2-4UB** module can be independently programmed for “Switched Mode” or “Dimming Tungsten Load”. The module is totally self contained with its own integral psu. The module can be fitted with protection devices as required, in to its own stand alone case, or, in to a cabinet with any other **Quantran OSNet** power modules.



For heat dissipation, personal & equipment safety, ease of installation, commissioning, reliability & servicing, **QMT2-4UB** the dimmer/switch module is enclosed in its own 4 keyhole fixing, metal construction thermal housing, with overheating automatic thermal shutdown protection and LED status indicator.

2KWper channel mains Tungsten
30 No. LV Transformers per channel.

Any output can be configured for Dimming or Switch Mode and any channel number.

Ambient temp 40°C. Maximum operating temperature 20°C above ambient.

Relative Humidity 90% non condensing.

- The **QMT2-4UB** has an inbuilt “Control System Supervisor” which maintains the last level selected on each channel and flashes the status LED when it detects the loss of control data input. After a power loss, on restoration the system will restore each area to the “Last scene selected” prior to the power loss.
- The metal construction of the **QMT2-4UB** Dimmer/Switch module has been designed and built for safety, reliability & serviceability with top & bottom keyhole fixings. Ventilation is by natural convection, NO electronic item, including the choke or stack, are fitted directly to the cabinet to use it as a heat sink.

OSNet QM10V-4UB

4 Channel 1-10V Dimming/Switch Mode Power Module

Any output of the **OSNet** Quad **QM10V-4UB** module can be independently programmed for “Switched Mode” or “1-10V Dimming”. The module is totally self contained with its own integral psu. The module can be fitted with protection devices as required, into its own stand alone case, or, into a cabinet with any other **Quantran OSNet** power modules.



For heat dissipation, personal & equipment safety, ease of installation, commissioning, reliability & servicing, the **QM10V-4UB** dimmer/switch module is enclosed in its own 4 keyhole fixing, metal construction thermal housing.

Ambient temp 40°C. Maximum operating temperature 20°C above ambient.

Relative Humidity 90% non condensing.

Switch Mode- Loading per Output

Incandescent 16A

LY Transformer 10A

Flourescent 140mF

1-10V Dimming- Loading perOutput

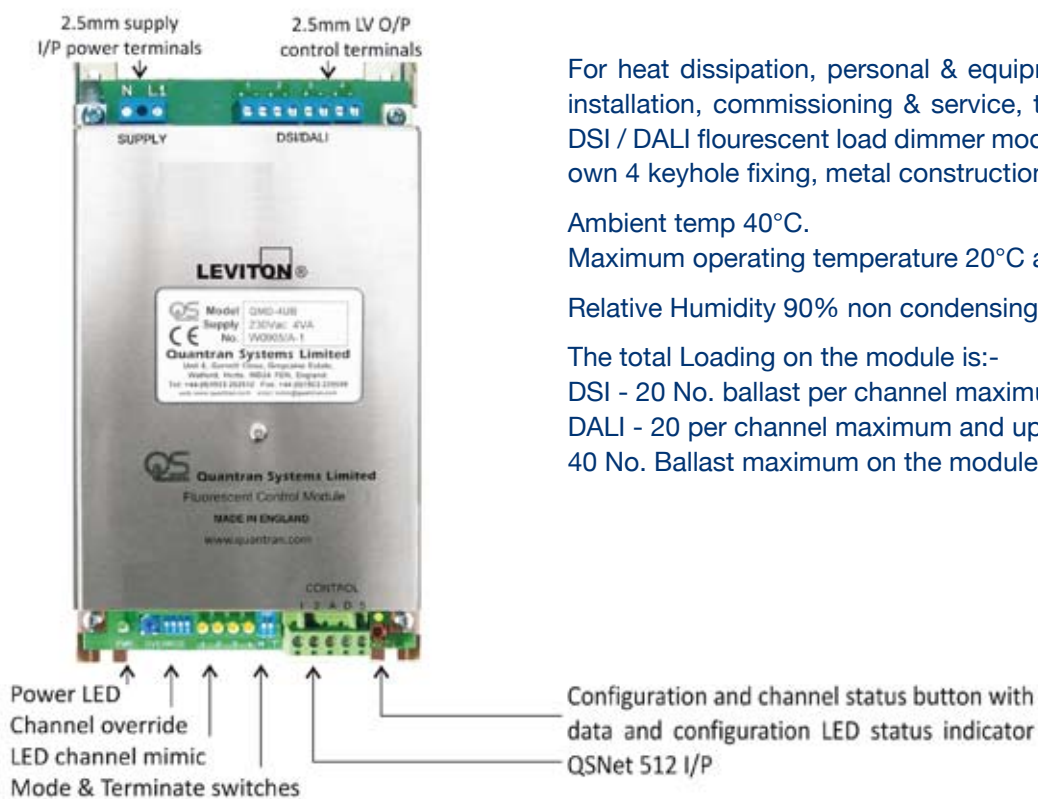
22 No. 18/36 W Ballast

- The **QM10V-4UB** has an inbuilt “Control System Supervisor” which maintains the last level selected on each channel and flashes the status LED when it detects the loss of control data input. After a power loss, on restoration the system will restore each area to the “Last scene selected” prior to the power loss.
- The metal construction of the **QM10V-4UB** Dimmer/Switch module has been designed and built for safety, reliability & serviceability with top & bottom keyhole fixings. Ventilation is by natural convection, NO electronic item, including the choke or stack, are fitted directly to the cabinet to use it as a heat sink.

OSNet QMD-4UB

4 Channel DSI/DALI Fluorescent Ballast Dimming Module

The Quad **QMD-4UB** module can be programmed for any output channels to be either DSI or DALI fluorescent load dimming. The module is totally self contained with its own integral psu and can be fitted with protection devices as required, in to its own stand alone case, or, in to a cabinet with any other **Quantran OSNet** power modules.



For heat dissipation, personal & equipment safety, ease of installation, commissioning & service, the quad **QMD-4UB** DSI / DALI fluorescent load dimmer module is enclosed in its own 4 keyhole fixing, metal construction housing.

Ambient temp 40°C.

Maximum operating temperature 20°C above ambient.

Relative Humidity 90% non condensing.

The total Loading on the module is:-

DSI - 20 No. ballast per channel maximum.

DALI - 20 per channel maximum and up to 40 No. Ballast maximum on the module.

- The metal construction of the **QMD-4UB** Dimmer/Switch module has been designed and built for safety, reliability & serviceability with top & bottom keyhole fixings. Ventilation is by natural convection, NO electronic item, including the choke or stack, are fitted directly to the cabinet to use it as a heat sink.
- The **QMD-4UB** has an inbuilt “**Control System Supervisor**” which maintains the last level selected on each channel and flashes the status LED when it detects the loss of control data input. The channel number for each output can be configured manually or in software using QSConfig software. After a power loss, on restoration the system will restore each area to the “Last scene selected” prior to the power loss.

OSNet LCMC16-8B

8 Channel Switching Power Module

The **LCMC16-8B** is a versatile 8 channel 16A per channel power switching and/or curtain control module. Any switched channel output can be programmed for any control channel input or in pairs for curtain control. The module can be fitted with protection devices as required, in to its own stand alone case, or, in to a cabinet with any other **Quantran OSNet** lighting control modules.



- The **LCMC16-8B** 8 channel power switching module is fitted with a 16A. Tungsten, 140microF Electronic Load, Fail Safe Magnetic Latching Relay on each channel. Latching Relays eliminate public panic & fear by maintaining the lighting at the last selected On or Off state for each independent circuit, in the event of a data communications control signal failure, or, after restoration in the event of a power failure
- The **LCMC16-8B** is fully addressable, each of the eight switched outputs can be controlled independently or in any combination. In the event of signal failure each channel can be independently programmed to stay at the last selection, switch ON or OFF after a pre programmed time. It has an inbuilt **"Control System Supervisor"** which maintains the last state selected on each switch channel and flashes the status LED when it detects the loss of control data input. After a power loss, on restoration the System will restore each channel to the "Last scene selected" prior to the power loss.
- The **LCMC16-8B** can be configured to provide 4 pairs of interlocking relays for curtain control in an architectural dimming system. In Curtain Control mode the curtain motor run time and direction change time delay can be programmed to eliminate motor damage should the curtain end limit control system male function.

OSNet

Architectural Dimming & Energy Management Lighting Control System

SYSTEM OVERVIEW

- The system is specifically designed for the dimming and/or switching of architectural, commercial & industrial lighting. Large networks of control stations can be assembled using Multiple **OSNet** controllers.
- The **OSNet** controllers can be self-contained within the control cabinet, or, be external that interface to the dimmer/switch modules through **OS512**.
- The system architecture is based on a peer-to-peer network, the failure of any single component or node does not cause loss of other system functions.
- Systems can be grouped with up to 126 control station nodes to form a “sub-network”. Multiple **OSNet** controllers can be used to join sub-networks together. Networks can contain both daisy chained and/or starred wiring configurations.
- A sub-network uses 2 or 3 pair RS-485 cable with maximum overall length of 1000M.
- Each node on a sub-network has a unique logical identifier (“ID”) numbered from 0 to 255.
- Each sub-network can control a maximum of 2048 dimmer channels.
- A control station can store up to 255 unique lighting control programs.
- Station nodes can be linked to other station nodes on the same or different sub-network. Linkages can be changed at any time by any other station or I/O node capable of transmitting the necessary commands.
- Combine and Separate of adjoining rooms can be accomplished by linking control plates and/or through use of station programs.
- Ethernet protocol shall conform to, and is fully compatible with all 10/100 baseT TCP/IP routers and networks.
- 255 **OSNet** sub-network of 512 O/P channels & 256 control devices can be networked together providing a network of 32,130 control devices and 130,590 output channels.
- Quad 1KW, Quad 2KW, Twin 3KW Tungsten, Quad 1-10V, Quad DSI/DALI Fluorescent & 8 channel switching output power modules are available. Each module is self-contained in its own keyhole fixing, metal chassis.

OSNet CONTROLLER:

- Has input/output nodes with functions specifically designed as a system control interface.
- Has the following connections:
 - LumaNet input
 - DMX512 input
 - DMX512 output
 - 10/100 baseT Ethernet connector
- Has integral Astro Time Clock
- Is capable of being connected to and joining two sub-networks.

OSNet

Architectural Dimming & Energy Management Lighting Control System

- Can use TCP/IP as the Ethernet protocol and conforms to the ColorNet 2.0 (or above) specification. It can act as a server for TCP/IP services such as Telnet, FTP, NTP, and HTTP, and as a client for TCP/IP services such as BACnet, BOOTP, NTP.
- Is also configurable from a personal computer connected to the same Ethernet network and using a Web Browser program or a TELNET program over the Internet.
- Supports Web Browser based control of any supported node on either sub-network.
- Support FTP upload and download of control and programming data to any supported node on the sub-network.
- Is capable of synchronizing time with another **OS512** or NTP time source and shall broadcast time synchronization messages.
- Each of the 2048 dimmer channels on each **OSNet** sub-network connected shall be assignable to any DMX512 dimmer channel on any **OSNet** controller in the system.
- It is capable of uploading or downloading all lighting control programming from all supported wall station nodes on the sub-network, to or from a PCMCIA flash memory card.
- It is capable of being programmed with a schedule of lighting events. Either an astronomical time clock or sequencer can activate these events.

CONTROL PLATES (STATION NODES):

- Each control station contains its own microprocessor, re-programmable flash memory for storage of operating program, and additional non-volatile memory for storage of lighting control programming data.
- All control stations are capable of having both the internal operating program updated and the lighting control program modified through the network, utilizing an appropriate input/output node. Mechanical removal of the station from the installation location is not necessary.
- All control stations are capable of storing up to 255 unique sets of lighting control programs.
- Any control station is capable of becoming a slave to any other identical station.
- All buttons are captured mechanically to prevent inadvertent removal of button caps.
- Presets can include any assigned power modules even though those power modules are assigned to other presets on the same or other stations.
- All control stations have the ability to assign one of eight function security levels to any of the functions. The lowest security level is zero (any access). Seven is the highest security level. The stations also have eight overall security modes. The function security level is required to be a lower number than the station security mode before the function can execute. A station security mode of eight allows all function access. A station security mode of zero will not allow any function access. Station security mode can be set by key switch, remote device, or by local password (LCD station only).

QSN^{et}

Architectural Dimming & Energy Management Lighting Control System

LCD CONTROL STATION:

- Has an interchangeable clip-on faceplate. A selection of colours is available.
- Flush mount in to standard MK892 double gang 6 x 3 back box
- Has a long life (50,000 hours min.) backlit 4 line LCD display with 20 characters per line. The LCD displays text as programmed. Text is unique to the network selected station. The LCD can also be used for local programming prompts.
- Has 15 momentary push buttons. Buttons are selectively backlit by LED's. Buttons can operate in momentary or toggle modes. Pressing a button shall cause a pre-programmed lighting control command to be transmitted on the sub-network.
- Allow local manual adjustment of assigned dimmer levels for each preset, utilizing the LCD display and pushbuttons. This feature is capable of being electronically locked out.
- Has the presets to optionally capture and store the current levels of assigned dimmers (SNAPSHOT), even though the dimmer levels originated from another station, control console, or other external source. .
- Is capable of storing up to 7 passwords. A station security mode from 1 to 7 can be assigned to each password.
- Prompts for a password whenever a function is selected that has a security level that is higher or the same of the station security mode.
- Has the option to automatically return to a preprogrammed personality (menu) and/or security mode in a preprogrammed time after station is idle.
- Has selectable back light level for active/idle conditions. The selections are: High/High, High/Low, and High/Off.

PUSHBUTTON WALL STATION:

- Has an interchangeable clip-on faceplate. A selection of colours is available.
- Flushmount in to standard MK891 single gang 3 x 3 back box
- Has 1 to 15 momentary push buttons. Buttons are selectively backlit by LED's. Buttons can operate in momentary or toggle modes. Pressing a button shall cause a pre-programmed lighting control command to be transmitted on the sub-network.

RS-232 INTERFACE NODE:

- Is mounted in a wall plate fitted with a 9-pin RS232 connector.
- Connects to a personal computer, or other device, to the network.
- Uses simple ASCII commands to directly change dimmer levels or to remote control network wall stations.
- Serves as an interface for a PC software program to control and configure the system.

OSNet

Architectural Dimming & Energy Management Lighting Control System

COMBINE-SEPARATE CONTROLLER NODE:

- Has 16 optically isolated contact closure inputs, 16 open collector outputs, and a sub-network connector.
- Is capable of joining up to 16 rooms, or 32 rooms when used with a second Combine Separate Controller. A maximum of 512 dimmer channels may be joined.
- Room combine can be controlled with the contact closure inputs or via any **OSNet** control station.
- Can optionally control the Master / Slave operation of control stations.

POWER MODULES

- For dimming Tungsten, High or Low Volt Cold-Cathode, Wire Wound or Dimmable Electronic LV Transformer loads of up to 3KW, DSI, DALI or 1-10V Dimmable Fluorescent Ballast as specified. And a 8 channel 16A per channel switch/curtain module
- Easy interchangeable Aluminum chassis construction.
- Totally self-contained with Driver PCB, SCR's & Choke etc., mounted on the same interchangeable chassis which have 4 keyhole slots for fixing to the cabinet to enable quick release and fitting. SCR's, Chokes or any of the dimmer power or control electronics not fixed directly to the cabinet members or use any of the cabinet members as a heat sink device.
- Fitted with an override switch and an output level mimic yellow LED indicator
- Fitted with an automatic thermal overload shutdown control system and a thermal shutdown 'ON' red LED Indicator.

CABINETS:

- Metal construction with metal segregated compartments for power and control terminations with a metal hinged MCB door. Internal wiring or dimmer modules are not exposed when the MCB door is opened.
- Finished in RAL 5005 blue, epoxy polyester semi-gloss.
- Fitted with an I/P isolator or RCCD, as specified of appropriate rating, and an output MCB per channel of appropriate rating.
- Fitted with a MCB DIN rail of sufficient length to allow for up to 50% more MCB's than dimmer channels, to be easily and quickly fitted on site, for additional sub-cct or clean feed distribution.
- Ventilation is only be by natural convection and be designed to continuously operate in an ambient temperature of 40°C.

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