Lighting Management & Control Systems
ELECTRON SA was established in 1978 and since then has been a leading manufacturing and distributive company of professional lighting systems in Greece where the company is located. At the same time, ELECTRON has also turned into a key international pioneer of professional lighting systems with exports in more than 60 countries worldwide. Today, the company celebrates 39 years of operation with a dynamic presence in the lighting industry.

ELECTRON SA designs, manufactures and distributes technologically advanced Dimmers (Actor, Apollo, Apollo Plus, Jazz Series etc), Architectural Lighting Management Systems (Micon Series), Control Desks (Tempo Series), Splitters, Relay Packs, and other lighting equipment. The company has also launched the PREMIUM Series of wall-mounted multi-functional controllers, available in different versions to meet your individual requirements and specifications, such as: Leading Edge Dimmers, Trailing Edge Dimmers, Relay Switches, HF Fluorescent Controllers, Sine Wave Dimmers, LED Drivers, DALI Drivers.

Thus, ELECTRON SA also offers complete solutions of Lighting Control, LED illumination and Architectural Lighting as well. Indeed, the ELECTRON team is willing to continue offering you in the future technologically advanced dimmers and controllers, modern designs of LEDs and a variety of architectural fittings for impressive lighting designs and installations.

ELECTRON SA is certified under the ISO 9001:2008 quality standards in the design, development, production and sales of professional lighting systems. The ELECTRON team is eager to serve you with optimum quality and technologically advanced products, and to offer you prompt delivery and the most competitive prices in the market. We are also very pleased to offer you technical information, designing advice based on our experience, and efficient after-sales, back-up service. Please request the relevant catalogues or visit www.electron.gr for additional informations.
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The PREMIUM Wall-Mounted Multi-Functional Power Controllers are developed, designed, and manufactured by ELECTRON SA.

The PREMIUM Controllers are designed not as simple dimmers, but as power control systems of multiple channels. Thus, they have features that make them ideal to use as stage power controllers, as architectural controllers, or both.

To be more precise, ELECTRON SA has developed independent Power Units with 1-4 channels, 6A-25A per channel, for different loads. More specifically, the Power Units are provided as Leading Edge Dimmers, Trailing Edge Dimmers, Relay Switches, Fluorescent Controllers, Sine Wave Dimmers, LED Drivers and DALI Drivers. ELECTRON SA offers a variety of types of Power Units with different channels, output loads etc.

Given the above, the PREMIUM are custom-made Wall-Mounted Multi-Functional Power Controllers. Every PREMIUM Controller is manufactured with Power Units according to the specific requirements of an application and its exact installation needs. Therefore, a PREMIUM Controller may incorporate, for instance, leading edge dimmers, relay switches and fluorescent controllers to meet particular lighting specifications.

This means that the PREMIUM Controllers are designed and developed in order to have control of an installation from one only PREMIUM enclosure, eliminating the need of having many different devices for controlling different loads.

The PREMIUM Series consists of three different models depending on the configuration (number and capacity) of Power Units in the same enclosure.

- Premium 79 is supplied with 12 Power Units,
- Premium 68 is supplied with 6 Power Units,
- Premium 37 is supplied with 3 Power Units.

Thus, the PREMIUM Controllers are manufactured to provide great flexibility to meet your own control needs.
NEW POWER UNITS WITH HYBRID RELAY SWITCHES  
FOR PREMIUM 79-68-37 DIMMERS

The new HYBRID RELAY SWITCH technology protects the relay’s contacts from sparks created upon their activation and deactivation. Activating and pausing states are handled by a Triac, which means that they occur on every zero cross of the AC power supply. In this way, both the high surge currents and the high voltage spikes are reduced at the maximum possible level, while in the active state (ON state) the thermal losses are reduced since the whole current is running through the relay.

Features – Technical specifications:
- Maximum contact protection on relay’s activation and deactivation.
- Capable of withstanding high inrush currents up to 250A.
- Output activation always at zero cross of AC power supply.
- Output deactivation always at zero output current.
- Load protection against high surge currents.
- Connection capability of resistive, capacitive and inductive loads.
- No high voltage spikes when switching off inductive loads.
- Multiple choices in power and channels per unit.
- Negligible heat losses.
- Can be placed in all models, (37, 68 and 79), of PREMIUM family.

The new Power Units with HYBRID RELAY SWITCHES are available in the following versions:
1. 4 x 6A, 1 pole relay.
2. 4 x 6A, 2 pole relay.
3. 3 x 10A, 1 pole relay.
4. 3 x 10A, 2 pole relay.
5. 2 x 16A, 1 pole relay.
6. 2 x 16A, 2 pole relay.
7. 4 x 16A, 1 pole relay, [Only for Premium 37]

PREMIUM 79-68-37 SERIES Of Multifunctional Custom Made Power Controllers

NEW POWER UNITS WITH TRAILING EDGE DIMMERS for:
- LED lamps dimmable with Trailing Edge dimmers
- CFLs and electronic transformers for Trailing Edge dimming
- Designed and manufactured by ELECTRON SA

Available versions:
- Premium 79 with 24 channels x 6A per channel
- Premium 79 with 36 channels x 4A per channel
- Premium 79 with 48 channels x 3A per channel

Available versions:
- Premium 68 with 12 channels x 6A per channel

Available versions:
- Premium 37 with 12 channels x 3A per channel
- Premium 37 with 9 channels x 4A per channel
- Premium 37 with 6 channels x 6A per channel

NOTE: You can have different power units that control different types of loads in the same Premium! Thus, one Premium can have Trailing edge dimmers, Leading edge dimmers, HF fluorescent controllers (1/10V) and relay switches, in the same enclosure!
Multifunctional Power Controller PREMIUM 79

PREMIUM 79: the ideal single device when capabilities, such as the ones described below, are required:

- up to 288 channels as stage dimmer system
- up to 512 channels as architectural controller system
- up to 512 scenes
- up to 128 chasers
- up to 2 DMX-512 inputs, one of which can be assigned as output
- 48 analogue inputs with six operating modes

- USB downstream & upstream ports*
- Ethernet port*
- RS232 port*
- EIB/KNX port with built-in power supply 640mA*
- 3 DALI circuits with built-in power supply*

PREMIUM 79 is classified on the top of the range of the PREMIUM Series due to its immense capabilities.

Innovative

When PREMIUM 79 functions as a stage dimmer system the user can have up to 288 independent channels: 48 for traditional dimmers, 48 for the corresponding outputs 1/10V, and 192 channels shared in three DALI circuits. For each DALI circuit, Premium has an independent built-in power supply.

When it functions as an architectural control system the channels can reach up to 512. In this case, one of the two DMX inputs functions as output and it can drive any DMX device.

Premium 79 has RS232, USB, and Ethernet ports and it can receive data from a PC, while the user can monitor the status of Premium when it functions as architectural control system. At the same time the user can program the memories, the chasers, etc in a PC and can transfer the data to Premium with a USB flash memory.

It has 48 analogue inputs that can be divided into groups. This means that the user can activate with any simple push button (available in the market), memories, chasers, or channels. By pressing a button of a group the user activates the assign function and deactivates all the other functions (of the buttons) of the same group. This operation is called ‘one active’. Thus, the user can successively change the lighting scheme and in parallel can adjust the intensity. There is also the possibility of assigning a button as ‘OFF’ in each group.

Premium has a EIB/KNX port with built-in power supply of 640mA, thus it can be connected to an already-existing Instabus system. Also, it can be connected directly and without any other device to any control panel that supports EIB/KNX. Moreover, Premium can function as a control panel to give data to any connected EIB/KNX actuator.

In DALI circuits there is the possibility to connect, besides DALI control panels, and all the DALI accessories like motion detectors, light sensors, presence sensors, infrared controls, etc.

All the features above, together with the built-in Real Time Counter (RTC) and the ‘event creator’ (with which the user can program the events in daily, weekly, or yearly base) constitute Premium 79 the most innovative power controller of the market.

* To be available in the near future.
PREMIUM 79

**Advanced**

PREMIUM 79 is very innovative, yet advanced management of it is also required. For that, PREMIUM 79 has two DMX inputs with patching capabilities, HIP Merge, LLP Merge, Folly Merge, Sequence Merge, and Last Merge. It can operate with two lighting desks. Several channels can be programmed from each desk, and all channels can operate in parallel function from the two desks (ale retour). In addition, a DMX packet can be recorded and stored into PREMIUM 79 as a scene.

One of the DMX inputs can also function as output with the possibility of connecting any DMX device. In this case, PREMIUM 79 functions as controller of these devices by getting commands from external control panels connected to DALI, EIB/KNX ports, analogue inputs or commands from a PC through USB, Ethernet, or RS232 ports. Also, one of the two DMX inputs can be programmed as architectural port for the new RS485 architectural control panels of ELECTRON.

PREMIUM 79 (full configuration) has in total 48 analogue inputs and 9 I/O ports (DMX1, DMX2, RS232, USB, EIB/KNX, DALI1, DALI2, DALI3, Etherem). For all these ports it functions as a large merger router.

With the correct programming, the command from one of the above inputs can be merged with a command from any other of these inputs with HIP merge or LLP merge or Last merge, and can control any channel, memory, or chaser of PREMIUM 79. Also, a channel from one input can be routed exclusively to one channel of another output. With this way, it is possible to transfer commands or control from anywhere to everywhere without limits.

Management of the memory allows the user to have a scene that can include commands or control for any I/O port of PREMIUM 79 at the same time.

Because the channels are many and the power units may be different a ‘chaser creator’ makes, together with the user’s contribution, a custom made chaser with the minimum possible allocation of memory.

Special functions are included for chasers regarding RGB LEDs.

**Flexible**

PREMIUM 79 is the most flexible model of the Premium Series. It can have up to 12 power units and each can have 1-4 channels with an output of 25A, 16A, 10A, and 6A. The power units can have leading and trailing edge dimmers, relay switches, fluorescent controllers, static wave dimmers, LED drivers. The outputs can have one pole MCCB, MCB P+N, and RCD. For the supply input the user can choose up to 4 RCDs by sharing the loads in each RCD or heavy-duty mains switch.

The basic version of PREMIUM 79 includes the above options and one DMX input. The price of this basic version is very economic and competitive, making the controller ideal for a user that does not need more features.

The second DMX input, the 48 analogue inputs, the ports RS232, USB, EIB/KNX, DALI1, DALI2, DALI3, and Ethernet are available optionally as extra features.

With all these options you can develop your own custom-made PREMIUM to fit your exact requirements and specific needs.

**High-Tech**

PREMIUM 79 is developed to be by its own a complete power control system for the total control and management of all the needs of a space.

To achieve this, ELECTRON has designed and developed high-tech electronics that include six 8 bit microcontrollers of RISC technology and one 16 bit microcontroller that functions as main microcontroller. The total processing power of PREMIUM 79 is more than 50 MIPS (Million Instructions per Second), which makes it one of the fastest Power Controllers.

This means that any command that comes into PREMIUM 79 from any input is executed almost instantly. Also, due to this speed, there is the possibility to manage up to 512 memories and 128 chasers.

It can easily be connected to a computer and have a Software Update, or the user can download the new Software from ELECTRON site to a USB flash memory and then transfer it to PREMIUM 79.

By connecting a PC to PREMIUM 79 and through the Ethernet port the user can easily follow up the status of the outputs, make some changes, block things, and have full control of the lighting scheme.

**Reliable**

ELECTRON SA is a manufacturing company in the professional lighting field for more than 39 years. The reliability of ELECTRON products is well known and is a fundamental requirement for our products that could not of course be missing from PREMIUM 79.

Reliability is also secured with the 7 watchdogs that check constantly the operation of the microcontrollers (7 when PREMIUM 79 is on full configuration). Moreover, the main microcontroller observes the operation of the peripheral ones and if there is a malfunction detected it drives it back to the correct operation.

PREMIUM 79 includes up to 12 temperature sensors checking the temperature of the power of the circuits. In case it is required, the appropriate fan is activated to face any unexpected situation. If the ambient temperature is not proper the ‘Automatic Power Control’ is activated by reducing the output power and retaining this way the temperature to a safe level.

In case the main microcontroller faces a total error then automatically memories are activated so that the space has lighting. These memories are programmed by the user.

The outputs of PREMIUM 79 are managed by two microcontrollers for extra safety. For any malfunction the user is informed through the display.
User Friendly
When having a device such as Premium 79 with so many functions and capabilities, the user may ask what and how needs to be programmed. If Premium 79 is going to function as a simple dimmer, then the user only needs to set the start address of the DMX.

If programming is required, this can easily be done with the use of the two encoders and the large graphic display. The first encoder enables the user to move through the menu with a great speed and find what needs to be changed (selector). The second encoder enables the user to directly make changes (value).

Moreover, the user manual of Premium 79 is carefully developed and written in such a way so that the user can easily and quickly find answers to questions such as ‘How do I...’

Also, for the specific model the user can get the necessary software, and by connecting it to a PC the programming is made on the screen of the PC.

Finally, by loading the software to a computer away from Premium 79, the user can make all the programming and then transfer the data with a USB flash memory to the Premium 79.

SPECIFICATIONS OF THE BASIC VERSION OF PREMIUM 79

- Stage and/or architectural operation.
- Up to 96 channels as stage dimmer system (48 ch. for traditional dimmers or relay switches, 48 ch. for 1/10V analogue outputs).
- 1 optical isolated DMX-512 input.
- Individual DMX address / channel is possible.
- Programmable DMX assigns.
- Each DMX channel can be programmed to activate a channel or a scene or a chaser.
- DMX merge capability (HTP merge, LTP merge, Last merge).
- Programmable DMX termination.
- 48 fully programmable analogue inputs (optional).
- Programmable analogue input assigns.
- Each analogue input can be programmed to activate a channel or a scene or a chaser.
- Six programmable operating modes for each analogue input (SI + 1V, SI - 1V, Contact normal open, Contact normal closed, Easy, Net, Push Button).
- Programmable Blocking function for each analogue input.
- Each analogue input can be blocked by a programmable DMX channel, or by DMX signal present.
- Control capability from all E Series architectural control panels of Electron.
- Control capability from simple faders, dry contacts, motion detectors, cinema projectors (using the cinema adaptor of Electron), push button switches (like Legrand).
- Analogue input grouping capability. When an input in a group receives a signal, this cancels all other input assigns of that group offering the “one active” capability.
- Up to 512 programmable scenes with programmable fade in/out (0 - 59.9 sec.), speed rate (0.05 - 59.99 sec.).
- Up to 128 programmable chasers with programmable fade in/out (0 - 59.9 sec.), speed rate (0.05 - 59.99 sec.).
- Chaser creator. For easy chaser creation.
- DMX packet capture for easy scene or step creation.
- Programmable preheat level per channel.
- Programmable soft start per channel.
- Programmable fade in/out (0 - 59.9 sec.) per channel.
- Law selection per channel (9 factory set laws + 5 user laws).
- Programmable maximum output level per channel.
- Programmable behaviour on DMX signal loss (Blackout, hold of last DMX data packet, scene).
- Three programmable function keys.
- Panic key (External heavy duty push button connection is possible).
- Emergency input.
- Standby key.
- Two encoders for easy selection and value setting.
- 128x64 graphic display (8 lines x 21 characters can be displayed).
- Password protected.
- Seven watchdogs.
- Up to 12 temperature sensors checking all the time the output power units.
- Automatic power control to prevent over-heating.
- Individual configuration of power units in the same enclosure.
- MC B protection for each channel.
- P+N MC Bs or RCBOs on each channel is possible.
- Heavy duty mains switch can be fitted.
- Up to 4 RCDs in power supply input can be fitted.
- Easy wall mounting with provided metal plate.
- Heavy duty lifting eye bolts.
- No need of removing the front cover of the metal enclosure. The upper front part (door) opens by unscrewing 2 screws allowing access to all screw terminals.
- Screw terminals with live, neutral, and earth per output.
- Power supply screw terminals. 70 mm².
- Three phase power supply (400/230V~ 3N/PE/50Hz).
- Delta models available on request.

Dimensions in mm (WxHxD)
PREMIUM 79: 750x1115x155
The PREMIUM Controllers are available with MCBs, MCBs P+N, RCBOs, main switch, RCCB, three phase and single phase power supply, and Delta (230V~ 3/PE).

ELECTRON S.A. produces 17 models of the PREMIUM 68 & 37 Series with different specifications.

The PREMIUM Controllers can accept data from analogue inputs, from the build-in control panel, and from the digital DMX-512 signal. Each of the analogue inputs can operate in one of the following six modes: 0/+10V, 0/+5V Contact normal open, Contact normal closed, Easy Net, Push Button Switches. Thus, you can connect to the PREMIUM Controllers the MICON E and BS Control Panels of ELECTRON SA, simple faders, dry contacts, motion detectors, push buttons, cinema projectors (using the cinema adaptor of ELECTRON SA) and other. Each analogue input can be programmed to activate a scene, user chaser, factory chaser or channel. When connecting the PREMIUM Controllers to a DMX-512 Control Desk, the user may disable all or some of the analogue inputs and, thus, deactivate the architectural control panels. The DMX-512 input is totally controlled allowing the user to select the start address or the DMX address for each channel independently, and to program the DMX address in many channels simultaneously so as to increase the power of a control channel.

The PREMIUM Series can be connected to the Emergency power supply and can be activated through a dry contact, in which case the PREMIUM allows the operation of a pre-programmed single scene, thus avoiding the overloading of uninterrupted power supply.

The PREMIUM Controllers are available with MCBs, MCBs P+N, RCBOs, main switch, RCCB, three phase and single phase power supply, and Delta (230V~ 3/PE). ELECTRON S.A. produces 17 models of the PREMIUM 68 & 37 Series with different specifications.
FEATURES OF PREMIUM 37 & 68 SERIES

AVAILABLE VERSIONS:
- Trailing Edge dimmers
- Leading Edge dimmers
- Relay switches
- HF Fluorescent controllers
- Power rating from 6A to 25A per channel

FEATURES
- Stage and/or architectural operation.
- DMX-512 input.
- Independent DMX address for each channel.
- Soft Patch for DMX channels.
- Programmable DMX assigns. Each DMX channel can be programmed to activate a channel or a scene or a user chaser or a factory chaser.
- 12 fully programmable analogue inputs.
- Soft Patch for analogue inputs.
- Programmable analogue input assigns. Each analogue input can be programmed to activate a channel or a scene or a user chaser or a factory chaser.
- Six programmable operating modes for each analogue input (0/+10V, 0/+5V, Contact normal open, Contact normal closed, Easy Net, Push Button).
- Programmable Blocking function for each analogue input. Each analogue input can be blocked by a programmable DMX channel, if present.
- Control capability from all E and BS Series of architectural control panels by Electron S.A. (page 24 - 25).
- Control capability from simple faders, dry contacts, motion detectors, cinema projectors (using the cinema adaptor of page 24), push button switches (like Legrand).
- Individual configuration of power units in the same enclosure.
- 24 programmable scenes with fade in/out (0sec-59min and 59,9sec.)
- 12 user chasers with programmable fade in/out (0sec-59,9sec.), speed rate (0,05sec-59,99sec.) and dimmer level.
- 12 factory chasers with programmable fade in/out (0sec-59,9sec.), speed rate (0,05sec-59,99sec.) and dimmer level.
- Programmable preheat level per channel.
- Programmable soft start per channel.
- Programmable channel fade in/out (0sec-59,9sec.) per channel.
- Law selection per channel (Linear, Incandescent, Switch (with selectable switch over point from 5-95% of the fader scale)).
- Programmable behaviour on DMX signal loss (Blackout or hold of last DMX data packet or go to scene 24).
- Programmable maximum output level per channel.
- Two programmable function keys that can be assigned as Panic and Fire alarm buttons.
- LCD display and keyboard on the front panel for easy programming.
- Password protected.
- Automatic power control to prevent overheating.
- MCB protection for each channel (MCBs P+N are available as extra).
- Main Switch 3P+N or RCCB are available as extra.
- Three phase power supply (Single phase power supply upon request).
- Delta models available upon request.

Dimensions in mm (WxHxD):
- PREMIUM 37: 346 x 550 x 110
- PREMIUM 68: 380 x 900 x 120

Coming Soon:
- Sine Wave Controllers
- LED Drivers
- DALI Drivers
### PREMIUM 68 CHANNEL CONFIGURATION CODES

<table>
<thead>
<tr>
<th>Code</th>
<th>Device Option</th>
<th>Power Unit Channels</th>
<th>Configuration Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>4x25A</td>
<td>1x25A</td>
<td>1x25A</td>
</tr>
<tr>
<td>2</td>
<td>4x25A + 2x16A/8A + 3x10A/4A</td>
<td>1x25A</td>
<td>1x25A</td>
</tr>
<tr>
<td>3</td>
<td>3x25A + 4x16A/8A</td>
<td>2x16A/8A</td>
<td>2x16A/8A</td>
</tr>
<tr>
<td>4</td>
<td>3x25A + 9x10A/4A</td>
<td>3x10A/4A</td>
<td>3x10A/4A</td>
</tr>
<tr>
<td>5</td>
<td>12x10A</td>
<td>2x10A</td>
<td>2x10A</td>
</tr>
</tbody>
</table>

Note: The HF Fluorescent and Relay switch Power Units should always be installed last in the dimmer configuration. Note 2: Channel configurations and capacities of Premium models cannot be changed. You must find the appropriate power unit for the load type you need, with the same channel capacity indicated in channel configuration tables. For example, the code corresponding to 2x16A is 2, 6, 7, 8, 9, A, E, F, I, and M.

### POWER UNITS CHANNLES X CAPACITY

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1x25A</td>
</tr>
<tr>
<td>2</td>
<td>2x16A/8A</td>
</tr>
<tr>
<td>3</td>
<td>3x10A/4A</td>
</tr>
<tr>
<td>4</td>
<td>4x16A/6A</td>
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</table>

### PREMIUM 37 CHANNEL CONFIGURATION CODES

<table>
<thead>
<tr>
<th>Code</th>
<th>Device Option</th>
<th>Power Unit Channels</th>
<th>Configuration Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>3x25A</td>
<td>1x25A</td>
<td>1x25A</td>
</tr>
<tr>
<td>2</td>
<td>6x16A/8A</td>
<td>2x16A/8A</td>
<td>2x16A/8A</td>
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<tr>
<td>3</td>
<td>1x25A + 2x16A/8A + 3x10A/4A</td>
<td>1x25A</td>
<td>1x25A</td>
</tr>
<tr>
<td>4</td>
<td>2x16A/8A + 3x10A/4A</td>
<td>2x10A</td>
<td>3x10A/4A</td>
</tr>
<tr>
<td>5</td>
<td>9x10A/4A</td>
<td>3x10A/4A</td>
<td>3x10A/4A</td>
</tr>
<tr>
<td>6</td>
<td>12x10A only relay 1P &amp; HF 1P</td>
<td>4x10A</td>
<td>4x10A</td>
</tr>
<tr>
<td>A</td>
<td>6x10A</td>
<td>4x10A</td>
<td>4x10A</td>
</tr>
<tr>
<td>B</td>
<td>12x10A only relay 1P &amp; HF 1P</td>
<td>5x10A</td>
<td>5x10A</td>
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### DEVICE OPTIONS CODES

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>One pole MCBs (Three Phase Star)</td>
</tr>
<tr>
<td>2</td>
<td>P+N MCBs (Three Phase Star)</td>
</tr>
<tr>
<td>3</td>
<td>One pole MCBs / Four pole main switch (Three Phase Star)</td>
</tr>
<tr>
<td>4</td>
<td>P+N MCBs / Four pole main switch. (Three Phase Star)</td>
</tr>
<tr>
<td>5</td>
<td>One pole MCBs / RCD (30mA) (Three Phase Star)</td>
</tr>
<tr>
<td>6</td>
<td>P+N MCBs / RCD (30mA) (Three Phase Star)</td>
</tr>
<tr>
<td>7</td>
<td>Two pole MCBs (Single Phase)</td>
</tr>
<tr>
<td>8</td>
<td>P+N MCBs (Single Phase)</td>
</tr>
<tr>
<td>9</td>
<td>One pole MCBs / Four pole main switch (Single Phase)</td>
</tr>
<tr>
<td>A</td>
<td>P+N MCBs / Four pole main switch (Single Phase)</td>
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<tr>
<td>B</td>
<td>One pole MCBs / RCD (30mA) (Single Phase)</td>
</tr>
<tr>
<td>C</td>
<td>P+N MCBs / RCD (30mA) (Single Phase)</td>
</tr>
</tbody>
</table>

### POWER UNITS CODES

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1x25A leading edge Triac Dimmer. R.t=100μs</td>
</tr>
<tr>
<td>2</td>
<td>2x25A One pole Relay switch</td>
</tr>
<tr>
<td>3</td>
<td>1x25A leading edge Thyristor Dimmer. R.t=100μs</td>
</tr>
<tr>
<td>4</td>
<td>U</td>
</tr>
<tr>
<td>5</td>
<td>2x16A One pole Hybrid Relay switch</td>
</tr>
<tr>
<td>6</td>
<td>2x10A One pole Relay switch</td>
</tr>
<tr>
<td>7</td>
<td>2x10A One pole Relay switch</td>
</tr>
<tr>
<td>8</td>
<td>2x10A One pole Hybrid Relay switch</td>
</tr>
<tr>
<td>9</td>
<td>2x10A One pole Thyristor Dimmer. R.t=100μs</td>
</tr>
<tr>
<td>A</td>
<td>2x10A One pole Thyristor Dimmer. R.t=200μs</td>
</tr>
<tr>
<td>B</td>
<td>2x10A One pole Relay switch</td>
</tr>
<tr>
<td>C</td>
<td>2x10A One pole Relay switch</td>
</tr>
<tr>
<td>D</td>
<td>4x10A HF Fluorescent controller. Two pole relay</td>
</tr>
<tr>
<td>E</td>
<td>4x10A One pole Thyristor Dimmer. R.t=50μs</td>
</tr>
<tr>
<td>F</td>
<td>4x10A One pole Relay switch</td>
</tr>
<tr>
<td>G</td>
<td>3x10A One pole Relay switch</td>
</tr>
<tr>
<td>H</td>
<td>3x10A One pole Hybrid Relay switch</td>
</tr>
<tr>
<td>I</td>
<td>3x10A HF Fluorescent controller. One pole relay</td>
</tr>
<tr>
<td>J</td>
<td>2x10A One pole Relay switch</td>
</tr>
<tr>
<td>K</td>
<td>2x10A One pole Relay switch</td>
</tr>
<tr>
<td>L</td>
<td>2x10A One pole Relay switch</td>
</tr>
<tr>
<td>M</td>
<td>2x10A One pole Hybrid Relay switch</td>
</tr>
<tr>
<td>N</td>
<td>One pole Hybrid Relay switch</td>
</tr>
<tr>
<td>O</td>
<td>One pole Hybrid Relay switch</td>
</tr>
<tr>
<td>P</td>
<td>One pole Hybrid Relay switch</td>
</tr>
<tr>
<td>Q</td>
<td>One pole Hybrid Relay switch</td>
</tr>
</tbody>
</table>

Note 1: Note 2: Channel configurations and capacities of Premium models cannot be changed. You must find the appropriate power unit for the load type you need, with the same channel capacity indicated in channel configuration tables. For example, the codes corresponding to 2x16A are 2, 6, 7, 8, 9, A, E, F, I, and M.
ACTOR
616-325-625

ACTOR is an advanced series of dimmers of compact and robust construction using DMX-512 and analogue 0/+10V control technology. They combine high quality and reliability. On the front panel of each ACTOR there are six channel sliders (three sliders for ACTOR 325) and a Master control. The units are designed for 19” rack mounting 3U high (4U for Acta 625) in fixed installations or touring racks. The DMX address can be selected through the 4 push buttons mounted on the front panel. There is a display indicating the correct or incorrect condition of the digital serial input, one monitor LED per output status and three LEDs for the power supply.

Features

- Soft start adjustable per channel.
- Preheat level adjustable per channel.
- 3 Selectable Laws (curves) per channel: Linear, Incandescent, Switch.
- 12 Pre-programmed chases with capability of adjusting the speed and the intensity.
- Possibility of selecting Dimmer with standard chokes or 100µs rise time (at additional cost) which is recommended for high professional applications. ACTOR 325 and ACTOR 625 are supplied standard with 100µs rise time.
- Programmable behaviour on DMX signal interruption (blackout or hold of last DMX address).
- Soft power up for inrush current limiting when the power is switched on.
- Suitable for controlling resistive or inductive loads, incandescent lamps and iron-core transformers to supply low voltage lamps.
- RCD can be supplied in all ACTOR models at additional cost.
- MCBs P+N can be supplied in all ACTOR models at additional cost.
- ACTOR 616, ACTOR 325 & ACTOR 625 are normally supplied with triac outputs. Thyristor outputs which are recommended for high professional applications, are available at additional cost.
- Programmable behaviour on DMX signal interruption (blackout or hold of last DMX address).
- Soft power up for inrush current limiting when the power is switched on.
- Suitable for controlling resistive or inductive loads, incandescent lamps and iron-core transformers to supply low voltage lamps.
- RCD can be supplied in all ACTOR models at additional cost.
- MCBs P+N can be supplied in all ACTOR models at additional cost.
- ACTOR 616, ACTOR 325 & ACTOR 625 are normally supplied with triac outputs. Thyristor outputs which are recommended for high professional applications, are available at additional cost.
- Programmable behaviour on DMX signal interruption (blackout or hold of last DMX address).
- Soft power up for inrush current limiting when the power is switched on.
- Suitable for controlling resistive or inductive loads, incandescent lamps and iron-core transformers to supply low voltage lamps.
- RCD can be supplied in all ACTOR models at additional cost.
- MCBs P+N can be supplied in all ACTOR models at additional cost.
- ACTOR 616, ACTOR 325 & ACTOR 625 are normally supplied with triac outputs. Thyristor outputs which are recommended for high professional applications, are available at additional cost.

ACTOR series is normally supplied with XLR 5-pin DMX IN/OUT, alternatively XLR 3-pin DMX IN/OUT can be supplied at no additional cost.

ACTOR 616

ACTOR 616 with RCD
ACTOR 616 with MCBs P+N
ACTOR 616 with RCD & MCBs P+N
ACTOR 616 DELTA
ACTOR 616 with BYPASS SWITCHES & MCBs

REAL IDEAL
POWER CABLE
SCHUKO
CEE
SOCAPEX
HARTING
SCREW TERMINALS
FRENCH
GBS
1 SOCAPEX & 6 SCHUKO (or SWISS or DANISH) outlets
Also available with WIELAND, DANISH and SWISS outlets. Power inlet CEE 5x32A supplied with all dimmers that have CEE plug.
ACTOR 325
- With 3 channels
- 5750W channel capacity (Watts at 230V)

ACTOR 625
- With 6 channels
- 5750W channel capacity (Watts at 230V)

### TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th></th>
<th>ACTOR 616</th>
<th>ACTOR 325</th>
<th>ACTOR 625</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Channels</td>
<td>6</td>
<td>3</td>
<td>6</td>
</tr>
<tr>
<td>Channel Capacity (Watts at 230V)</td>
<td>3680W</td>
<td>5750W</td>
<td>5750W</td>
</tr>
<tr>
<td>Maximum Current Per Channel</td>
<td>16A</td>
<td>25A</td>
<td>25A</td>
</tr>
<tr>
<td>DMX-512 Signal Buffer</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>Three Laws (Linear-Inductive-Switch) Selectable Per Channel</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>Supply Voltage 400/230V~3/N/PE/50Hz</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>Dimensions (WxHxD):</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACTOR 325 &amp; ACTOR 616 (EXCEPT ACTOR 616 WITH SCREW TERMINALS)</td>
<td>482x132x340</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACTOR 625</td>
<td>482x177x340</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACTOR 616ST (WITH SCREW TERMINALS)</td>
<td>482x132x375</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Power inlet CEE 5x32A supplied with all dimmers that have CEE plug

Designed & Manufactured by ELECTRON SA
The ACTOR 716 is another member of the Actor family. The Dimmer Pack is of compact and robust construction. It combines high quality and reliability. The unit is designed for 19" rack mounting (3U high) in fixed installations or touring racks. The dimmer pack is controlled by DMX-512 (1990). The DMX address can be selected through the four push buttons mounted on the front panel. The display indicates the DMX address or the DMX failure. The power supply is connected on a 5-pin CEE 5X63A heavy duty inlet. The 5-pin CEE 5X63A female connector is supplied free of charge with the dimmer. ACTOR 716 is offered with the following outlet sockets: Schuko, French, Danish, Swiss, Harting and Socapex.

Features

- Soft start adjustable per channel.
- Preheat level adjustable per channel.
- Three selectable laws (curves) per channel: linear, incandescent, switch. Twelve preprogrammed chasers with capability of adjusting the speed and the intensity.
- On board channel control with the use of the keyboard. Possibility of ordering the dimmer pack with standard chokes or with 100μs rise time (at additional cost) which is recommended for high professional application.
- Programmable behaviour on DMX signal interruption (blackout or hold of last DMX address).
- Soft power up for inrush current limiting when the power is switched on.
- Suitable for controlling resistive or inductive loads, incandescent lamps and iron-core transformers to supply low voltage lamps.
- MCB’s P+N can be supplied at additional cost.
- Twelve output led monitors.
- Three mains led monitors.
- Cooling fan controlled by an electronic temperature sensor.
- Automatic Power Control (APC) which controls the output power in case of fan failure to keep the temperature at safe levels.

ACTOR 716 with RCD

ACTOR 716 with POWER CABLE

Power inlet CEE 5x63A supplied with all dimmers that have CEE plug

### TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th></th>
<th>ACTOR 716</th>
<th>ACTOR 710</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUMBER OF CHANNELS</td>
<td>12</td>
<td>12</td>
</tr>
<tr>
<td>CHANNEL CAPACITY (WATTS AT 230V)</td>
<td>3680W</td>
<td>2300W</td>
</tr>
<tr>
<td>MAXIMUM CURRENT / CHANNEL</td>
<td>16A</td>
<td>10A</td>
</tr>
<tr>
<td>DMX-512 SIGNAL BUFFER</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>THREE LAWS (LINEAR, INCANDESCENT, SWITCH)</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>SUPPLY VOLTAGE 400/230V-3/N/PE/50Hz</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>DIMENSIONS IN MM (WxDxH)</td>
<td>482 x 132 x 365</td>
<td>482 x 132 x 365</td>
</tr>
</tbody>
</table>
The ACTOR B series is an economically priced professional series of dimmers manufactured with high quality components. The DMX address can be selected through the four push buttons mounted on the front panel. There is a display indicating the correct or incorrect condition of the DMX input, three monitor LEDs for the power supply and one LED for each output. ACTOR B series is only DMX controlled.

Features
- Soft start adjustable per channel.
- Preheat level adjustable per channel.
- 3 Selectable laws (curves) per channel: Linear, Incandescent, Switch.
- 12 Pre-programmed chases with capability of adjusting the speed and the intensity.
- Programmed behaviour on DMX signal interruption (blackout or hold of last DMX address).
- Soft power up for inrush current limiting when the power is switched on.
- MCBs P+N can be supplied in all ACTOR B series at additional cost.
- Suitable for controlling resistive or inductive loads, incandescent lamps and iron-core transformers to supply low voltage lamps.
- DMX signal buffer.

ACTOR B series is normally supplied with XLR 5-pin DMX IN/OUT, alternatively XLR 3-pin DMX IN/OUT can be supplied at no additional cost.

NEW ACTOR BASE Trailing Edge dimmer

**Actor Base 610 is made with 6 channels 10A per channel and it can now dim:**
- LED lamps dimmable with Trailing Edge dimmers
- CFLs and electronic transformers for Trailing Edge dimming

<table>
<thead>
<tr>
<th>TECHNICAL SPECIFICATIONS</th>
<th>ACTOR B610 Leading Edge</th>
<th>ACTOR B610 Trailing Edge</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUMBER OF CHANNELS</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>CHANNEL CAPACITY (Watts at 230V)</td>
<td>2300</td>
<td>2300</td>
</tr>
<tr>
<td>MAXIMUM CURRENT PER CHANNEL</td>
<td>10A</td>
<td>10A</td>
</tr>
<tr>
<td>SUPPLY VOLTAGE</td>
<td>400/230V—3/N/PE/ 50Hz</td>
<td>400/230V—3/N/PE/ 50Hz</td>
</tr>
<tr>
<td>DIMENSIONS IN MM (WxHxD):</td>
<td>482 x 88 x 340</td>
<td>482 x 88 x 340</td>
</tr>
</tbody>
</table>

Designed & Manufactured by ELECTRON SA
The Dimmer Pack JAZZ 310 and JAZZ 311 have various applications and therefore they are useful tools for many different installations. They can be permanently wall mounted or tripod / truss mounted. On the front panel there are three sliders used to control each channel and a Master. There are also twelve chasers preset by the factory (Factory Chasers) with the capability of controlling the Dimmer Level, the speed (Rate) and the Fade Time. Each pack has two 9-pin D-sub connectors.

On the first connector it can be connected a six channel signal from an analogue control desk and the second connector (Through) is connected to a second Jazz Dimmer. On the front panel there is also a selector switch used to select whether the unit will be controlled by channels 1-2-3 or 4-5-6. The dimmers incorporate a digital DMX 512 input and the start address can be selected from the corresponding buttons located on the front panel.

Features
- The total load should not exceed 3000W (13A) for JAZZ 310 and 6900W (30A) for JAZZ 311.
- Each dimmer channel should not exceed 2300W (10A) at 230V.
- 3 sliders used to control each channel and a Master.
- Two 9-pin D-Sub connectors. The first connector (IN) is connected to an analogue control desk and the second one (Through) is connected to a second Jazz Dimmer.
- 8-pin DIN connector is also available.
- Selector switch used to select whether the unit will be controlled by the channels 1-2-3 of the external control desk or by the channels 4-5-6.
- Digital DMX-512 input.
- The start address can be selected from the corresponding buttons located on the front panel.
- For protection against overloading, the dimmer JAZZ 310 is equipped with an electronic current limiter at 13.5A.
- 12 Factory Set Chasers with capability of setting the Dimmer Rate and Fade.
- Dimensions in mm (WxHxD): 242 x 96 x 293.

JAZZ 310 & JAZZ 311 are also available with WIELAND outlets
**TECHNICAL SPECIFICATIONS**

<table>
<thead>
<tr>
<th>PORTABLE DIMMER PACKS</th>
<th>APOLLO PLUS 615C</th>
<th>APOLLO PLUS 615S</th>
<th>APOLLO PLUS 616C</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHANNELS</td>
<td>6</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>CHANNEL CAPACITY</td>
<td>3450W</td>
<td>3480W</td>
<td>3680W</td>
</tr>
<tr>
<td>MAXIMUM CURRENT / CHANNEL</td>
<td>15A</td>
<td>16A</td>
<td>16A</td>
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<tr>
<td>LOAD TYPES</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>HARD FIRED TRIACS</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>OUTPUT FILTER</td>
<td>50µs (optional 100µs or 200µs)</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>OUTPUT LED MONITORS</td>
<td>YES</td>
<td>YES</td>
<td>-</td>
</tr>
<tr>
<td>HEAVY DUTY FUSE HOLDERS</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>CIRCUIT BREAKERS</td>
<td></td>
<td></td>
<td>YES</td>
</tr>
<tr>
<td>ANALOGUE INPUTS</td>
<td>O + 10VDC</td>
<td>YES</td>
<td>YES</td>
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<tr>
<td>20VDC OUTPUT FOR EXTERNAL CONTROL DESK</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>BUILD-IN SLIDERS + MASTER</td>
<td>-</td>
<td>-</td>
<td>YES</td>
</tr>
<tr>
<td>DMX 512 INPUT</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>INDICATION OF DMX “FAULT” STATUS</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>PROGRAMMABLE START ADDRESS</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>DMX-512 SIGNAL BUFFER</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>TERMINATION SWITCH</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>HOLDING OF LAST DMX VALUE</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
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<tr>
<td>PROGRAMMABLE BEHAVIOR ON DMX SIGNAL INTERRUPTION</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
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<tr>
<td>D- DIGIT NUMERIC DISPLAY</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
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<tr>
<td>4-BUTTON KEYPAD, 2 OF WHICH CAN BE PROGRAMMED BY THE USER AS FUNCTION KEYS</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
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<tr>
<td>MENU DRIVEN SOFTWARE</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
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<tr>
<td>PASSWORD FOR SETTINGS PROTECTION</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
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<tr>
<td>LAYOUT</td>
<td>LINEAR, HALOGEN, AND FLUORESCENT</td>
<td>YES</td>
<td>YES</td>
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<td>SELECTABLE SWITCHED OUTPUT</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
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<tr>
<td>PROGRAMMABLE PREHEAT LEVEL PER CHANNEL</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
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<tr>
<td>PROGRAMMABLE PERCENTAGE OF OUTPUT VOLTAGE PER CHANNEL</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
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<td>PROGRAMMABLE SOFT TURN-ON PER CHANNEL</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
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<tr>
<td>CHANNEL LEVEL CONTROL</td>
<td>SLIDERS</td>
<td>DIGITAL SLIDERS</td>
<td>YES</td>
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<tr>
<td>24 PROGRAMMABLE MEMORIES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
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<td>12 PROGRAMMABLE CHASERS</td>
<td>YES</td>
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<tr>
<td>12 FACTORY-SET CHASERS</td>
<td>YES</td>
<td>YES</td>
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<td>60-STEP LOOP FUNCTION</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
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<tr>
<td>MEMORY OR CHASE ASSIGNMENT OF SLIDERS</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
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<tr>
<td>DIAGNOSTIC TESTS</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
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<tr>
<td>WATCHDOG TIMER</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
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<tr>
<td>DC SPEED CONTROLLED, FAN ASSISTED CONVECTION COOLING</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
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<tr>
<td>HIGH TEMPERATURE DETECTION</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
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<tr>
<td>AUTO POWER HANDLING AT HIGH TEMPERATURE CONDITION</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
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<tr>
<td>POWER FAILURE AND POWER OFF MODES AT LOW POWER SUPPLY VOLTAGE</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
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<tr>
<td>DISABLED OUTPUT ON POWER SUPPLY OVER-VOLTAGE</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
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<tr>
<td>RACK MOUNTING</td>
<td>YES</td>
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<tr>
<td>WALL MOUNTING</td>
<td>YES</td>
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<td>YES</td>
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<tr>
<td>TRUSS MOUNTING</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
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<tr>
<td>HEAVY DUTY HANDLE</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>230V/400V-3/4/PE/50Hz,3 PHASE STAR CONNECTION</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>230V 3/5/400V, 3/4/50Hz L3 PHASE DELTA CONNECTION</td>
<td>Optional</td>
<td>Optional</td>
<td>Optional</td>
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<tr>
<td>DIMENSIONS (WxHxD) IN MM</td>
<td>432 x 177 x 350</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Delta version dimmers available upon request.*

**APOLLO PLUS & APOLLO SERIES**

APOLLO and APOLLO PLUS are heavy duty, durable, portable, compact dimmer packs that can satisfy even the highest user requirements! APOLLO and APOLLO PLUS are the most intelligent and technologically advanced digital dimmers that can be used in all cases, such as in stages, touring, theaters, studios etc. The complete range of APOLLO and APOLLO PLUS series consists of over 500 versions. Both series of dimmer packs are of modern design and high performance.

The housing of APOLLO and APOLLO PLUS is made of aluminium with 3mm thickness, resistible to every strain and crash that could occur during transportation and dimmer outputs are located at the front side of APOLLO and APOLLO PLUS to allow easy access and operation. These do not extend from the aluminium cover, for further protection. The robust handle on the right side of APOLLO and APOLLO PLUS allows easy carrying and truss mounting. APOLLO and APOLLO PLUS can also be mounted on wall or rack and can be operated horizontally or vertically.

**APOLLO PLUS 615-616**

APOLLO and APOLLO PLUS are heavy duty, durable, portable, compact dimmer packs that can satisfy even the highest user requirements! APOLLO and APOLLO PLUS are the most intelligent and technologically advanced digital dimmers that can be used in all cases, such as in stages, touring, theaters, studios etc. The complete range of APOLLO and APOLLO PLUS series consists of over 500 versions. Both series of dimmer packs are of modern design and high performance.

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**APOLLO PLUS**

17
**APOLLO PLUS**
625C-350C-363C

**FEATURES OF APOLLO PLUS SERIES**
- Suitable to control incandescent lamps, iron core transformers for low voltage incandescent lamps, resistive and inductive loads.
- Hard wiring to ensure proper triggering.
- High quality output filters with rise time up to 200μs.
- Output led monitors.
- Heavy duty fuse holders for $ models and circuit breakers for C models.
- DMX 512 in/output (XLR 5pin connection).
- Indication of DMX "FAULT" status.
- Programmable start address.
- DMX signal buffer.
- Termination switch.
- Holding of last DMX value.
- Programmable behaviour on DMX signal interruption.
- Five-digit numeric display.
- Four-button keypad, two of which can be programmed by the user as function keys.
- Menu driven software.
- Password for settings protection.
- Three laws selected by the user (Linear, Halogen and Fluorescent).
- Selectable switched output (non dim).
- Programmable preheat level per channel.
- Programmable percentage of output voltage per channel.
- Programmable soft turn-on per channel.
- Analogue control inputs 0±10V (9 pin D-sub male connector).
- 20VDC output for supplying external analogue control desk.
- Models C are supplied with channel sliders + master.
- Twenty four programmable memories.
- Twelve programmable chasers.
- Twelve factory-set chasers.
- Memory or Chaser assignment of sliders (Models C only).
- Watchdog timer.
- Silent operation DC speed controlled, fan assisted convection cooling.
- Overheating detection.
- Auto power handling at high temperature condition.
- Power Failure and Power Off modes on low power supply voltage.
- Disabled output on power supply overvoltage.
- Heavy duty handle.
- Truss mounting.
- Rack mounting.
- Wall mounting for Apollo Plus models 610-616 only.
- Start up diagnostic tests: Microcontrollers selftest, Memories test, Fan test.
- Diagnostic tests of sliders and pushbuttons.
- 60-step Loop Function.

*Delta version dimmers available upon request.

**TECHNICAL SPECIFICATIONS**

**PORTABLE DIMMER PACKS**

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<thead>
<tr>
<th></th>
<th>APOLLO PLUS</th>
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<tbody>
<tr>
<td></td>
<td>625C</td>
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<td>60-STEP LOOP FUNCTION</td>
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<td>MEMORY OR CHASER ASSIGNMENT OF SLIDERS</td>
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<td>DIAGNOSTIC TESTS</td>
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<td>DC SPEED CONTROLLED, FAN ASSISTED CONVECTION COOLING</td>
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<td>HIGH TEMPERATURE DETECTION</td>
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<td>AUTO POWER HANDLING AT HIGH TEMPERATURE CONDITION</td>
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<td>POWER FAILURE AND POWER OFF MODES ON LOW POWER SUPPLY VOLTAGE</td>
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<td>DISABLED OUTPUT ON POWER SUPPLY OVERVOLTAGE</td>
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<td>RACK MOUNTING</td>
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<tr>
<td>DIMENSIONS (WxHxD) IN MM</td>
<td>432 x 222 x 400</td>
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</table>

**DIMENSIONS (WxHxD) IN MM**
- 432 x 222 x 400
- Optional

**DELTA VERSION DIMMERS AVAILABLE UPON REQUEST.**
APOLLO PLUS 716

**FEATURES OF APOLLO PLUS SERIES**

- Suitable to control incandescent lamps, iron core transformers for low voltage incandescent lamps, resistive and inductive loads.
- Hard firing to ensure proper triggering.
- High quality output filters with rise time up to 100μs.
- Output led monitors.
- Heavy duty fuse holders for $ models and circuit breakers for C models.
- DMX 512 in/out (XLR 5pin connectors).
- Indication of DMX “Fault” status.
- Programmable start address.
- DMX signal buffer.
- Termination switch.
- Holding of last DMX value.
- Programmable behaviour on DMX signal interruption.
- Five-digit numeric display.
- Four-button keypad, two of which can be programmed by the user as function keys.
- Menu driven software.
- Password for settings protection.
- Three laws selected by the user (Linear, Halogen and Fluorescent).
- Selectable switched output (non dim).
- Programmable preheat level per channel.
- Programmable percentage of output voltage per channel.
- Programmable soft turn-on per channel.
- Analogue control inputs 0/+10V (9 pin D-sub male connector).
- 20VDC output for supplying external analogue control desk.
- Models are supplied with channel sliders + master.
- Twenty four programmable memories.
- Twelve programmable chasers.
- Twelve factory-set chasers.
- Memory or Chaser assignment of sliders (Models only).
- Watchdog timer.
- Silent operation DC speed controlled, fan assisted convection cooling.
- Overheating detection.
- Auto power handling at high temperature condition.
- Power Failure and Power Off modes on low power supply voltage.
- Disabled output on power supply overvoltage.
- Heavy duty handle.
- Truss mounting.
- Wall mounting for Apollo Plus models 610-616 only.
- Start up diagnostic tests: Microcontrollers selftest, Memories test, Fan test.
- Diagnostic tests of sliders and pushbuttons.
- 60-step Loop Function.

**TECHNICAL SPECIFICATIONS**

<table>
<thead>
<tr>
<th>PORTABLE DIMMER PACKS</th>
<th>APOLLO PLUS 716S</th>
<th>APOLLO PLUS 716C</th>
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<tr>
<td>CHANNELS</td>
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<td>16A</td>
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<td>HARD FIRED TRACS</td>
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<td>OUTPUT FILTER</td>
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<td>YES</td>
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<td>OUTPUT LED MONITORS</td>
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<td>YES</td>
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<td>HEAVY DUTY FUSE HOLDERS</td>
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<td>YES</td>
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<td>ANALOGUE INPUTS</td>
<td>Q' + 10VDC</td>
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<tr>
<td>BUILD-IN SLIDERS + MASTER</td>
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<td>INDICATION OF DMX “FAULT” STATUS</td>
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<td>TERMINATION SWITCH</td>
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<td>PROGRAMMABLE BEHAVIOR ON DMX SIGNAL INTERRUPTION</td>
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<td>5-DIGIT NUMERIC DISPLAY</td>
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<td>4-BUTTON KEYPAD, 2 OF WHICH CAN BE PROGRAMMED BY THE USER AS FUNCTION KEYS</td>
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<td>MENU DRIVEN SOFTWARE</td>
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<td>WATCHDOG TIMER</td>
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<td>YES</td>
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<td>DC SPEED CONTROLLED, FAN ASSISTED CONVECTION COOLING</td>
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<td>DISABLED OUTPUT ON POWER SUPPLY OVERVOLTAGE</td>
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<td>RACK MOUNTING</td>
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<td>TRUSS MOUNTING</td>
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<td>230/400V:3/N/PE/50Hz:3 PHASE STAR CON/TRON</td>
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<td>432 x 222 x 400</td>
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</tbody>
</table>

*Delta version dimmers available upon request.*

**DIMENSIONS OF APOLLO PLUS**

[Image of Apollo Plus series]
APOLLO 615-616

FEATURES OF APOLLO PLUS SERIES
- Suitable to control incandescent lamps, iron core transformers for low voltage incandescent lamps, resistive and inductive loads.
- Hard firing to ensure proper triggering.
- High quality output filters with rise time up to 100 μs.
- Output led monitors.
- Heavy duty fuse holders for S models and circuit breakers for C models.
- DMX 512 in/out (XLR 5pin connectors).
- DMX signal buffer.
- Holding of last DMX value.
- Three rotary switches for selecting start address.
- Analogue control inputs 0/+10V (9 pin D-sub male connector).
- 20VDC output for supplying external analogue control desk.
- Four factory-set chasers with capability of selecting the speed and the master intensity level.
- Watchdog timer.
- Fan assisted convection cooling (activated by thermostat).
- Truss mounting.
- Heavy duty handle.
- Rack mounting accessories (supplied as extra at additional cost).
- Wall mounting accessories (supplied as extra at additional cost).

TECHNICAL SPECIFICATIONS

PORTABLE DIMMER PACKS

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<tr>
<th>CHANNELS</th>
<th>615S</th>
<th>615C</th>
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<td>BUILT-IN SLIDERS + MASTER</td>
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<td>230V 3PH/60Hz, 3 PHASE STAR CONNECTION</td>
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*Delta version dimmers available upon request.
### ORDERING INFORMATION FOR APOLLO & APOLLO PLUS SERIES PORTABLE DIMMER PACKS

#### OUTPUT SOCKETS/CH. | POWER SUPPLY
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<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>ONE SCHUKO</td>
<td>SCREW TERMINAL</td>
</tr>
<tr>
<td>TWO SCHUKO</td>
<td>SCREW TERMINAL</td>
</tr>
<tr>
<td>ONE CEE-17 (3x16A)</td>
<td>SCREW TERMINAL</td>
</tr>
<tr>
<td>ONE GB15A</td>
<td>SCREW TERMINAL</td>
</tr>
<tr>
<td>TWO GB15A</td>
<td>SCREW TERMINAL</td>
</tr>
<tr>
<td>ONE FRENCH</td>
<td>SCREW TERMINAL</td>
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<tr>
<td>TWO FRENCH</td>
<td>SCREW TERMINAL</td>
</tr>
<tr>
<td>ONE POWER CON</td>
<td>SCREW TERMINAL</td>
</tr>
<tr>
<td>TWO POWER CON</td>
<td>SCREW TERMINAL</td>
</tr>
<tr>
<td>ONE SOCAPEX</td>
<td>SCREW TERMINAL</td>
</tr>
<tr>
<td>TWO SOCAPEX</td>
<td>SCREW TERMINAL</td>
</tr>
<tr>
<td>ONE 16POLE x 16A (HARTING)</td>
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</tr>
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<td>TWO 16POLE x 16A (HARTING)</td>
<td>SCREW TERMINAL</td>
</tr>
</tbody>
</table>

#### GUIDING ORDERING INFORMATION

**APOLLO or APOLLO PLUS SERIES**

- **Number of channels**: 3 for 3 channels, 6 for 6 channels, and 7 for 12 channels.
- **Maximum channel current**: 15 for 15A, 16 for 16A, 25 for 25A, 50 for 50A, and 63 for 63A.
- **Control sliders**: S models without sliders, C models with sliders.
- **Output sockets**: SCH for Schuko, CEE for CEE17, GBS for British GB15A, FRS for French, SCP for Socapex, HRT for Harting, and POC for Power Con.
- **Rise time of output filters**: 05 for 50μs, 10 for 100μs, 20 for 200μs.
- **Number of output sockets per channel**: 1 for 1 per channel, 2 for 2 per channel.
- **Mains power connection**: 2 for screw terminals, 3 for CEE17, and 6 for Delta screw terminals.
- **Reserved code for customer specs**: 0 for standard version.

Please make sure that the combination of your choice is available in the above standard ordering table.
The light intensity adjustment in a common flicker free dimmer is usually based on IGBTs (Insulated Gate Bipolar Transistor). These dimmers have the ability to vary the conduction angle of the power supply sinusoidal voltage so that regulation of brightness variation of the lamp(s) is achieved. When IGBT is in conduction state it acts as a switch, and consequently the supply voltage is conducted at the dimmer’s output. This means that any fluctuation in the mains voltage is conducted to the lamps and the result is the variation of the lamps’ luminosity. Thus, these dimmers are flicker-free concerning their electronic circuit, but the lamps are flickering because of the dimmer’s weakness to control the fluctuations of the mains system.

The new SMRD (Switch Mode Regulated Dimmer) technology monitors the mains voltage and stabilizes the output voltage so that this remains stable and unaffected from mains fluctuations. In comparison to the conventional dimmer, the SMRD dimmer’s output voltage remains stable even under mains voltage fluctuations, providing a more consistent light output.

### Mains fluctuation immunity

The light intensity adjustment in a common flicker free dimmer is usually based on IGBTs (Insulated Gate Bipolar Transistor). These dimmers have the ability to vary the conduction angle of the power supply sinusoidal voltage so that regulation of brightness variation of the lamp(s) is achieved. When IGBT is in conduction state it acts as a switch, and consequently the supply voltage is conducted at the dimmer’s output. This means that any fluctuation in the mains voltage is conducted to the lamps and the result is the variation of the lamps’ luminosity. Thus, these dimmers are flicker-free concerning their electronic circuit, but the lamps are flickering because of the dimmer’s weakness to control the fluctuations of the mains system.

The new SMRD (Switch Mode Regulated Dimmer) technology monitors the mains voltage and stabilizes the output voltage so that this remains stable and unaffected from the network’s fluctuations, thus results in the stability of the lamp(s) brightness.

#### Output curve of a common Trailing edge flicker free dimmer

When the IGBT is in conduction, the dimmer’s peak voltage (green curve) is about the same with the mains peak voltage (red curve). Consequently, the voltage that is conducted to the lamp(s) is proportional to the mains fluctuations.

#### Output curve of a Trailing edge SMR Dimmer

The peak voltage of the SMR Dimmer (green curve), is stable irrespective of the mains peak voltage (red curve), the amplitude of the mains fluctuation could be from 173V to 265V.
True output regulation

Some dimmers available in the market achieve voltage stabilization by regulating the conduction angle. With this method the RMS voltage can remain stable, however there are three disadvantages:

1) Mains voltage must be always higher than the output voltage.
2) By changing the conduction angle, brightness is affected because the LED lamp’s luminous regulation is dependent on the conduction angle of the dimmer.
3) When the dimmer is on at full (conduction angle 100%), there is no possibility to further increase the conduction angle in case of a voltage drop from the network.

SMR technology maintains the output voltage stable with no need of higher mains voltage and without changing the conduction angle. This means that even if the dimmer is at 100%, the output remains at full (230V) in power supply voltage range from 173V to 265V.

More features of the SMR Dimmer:

Power Factor

LED lamps but also CFLs (Compact Fluorescent Lamps) are usually loads with low power factor (cos = 0.55 - 0.75). Independently from the lamps’ power factor, the new SMR dimmer consumes energy with power factor > 0.98 (for output level 100%), without affecting the network.

Lamp protection

Due to the special electronic circuits and stabilization the output voltage is always steady and free from spikes and over-voltages protecting the lamps even from complete failure.

Dimming law correction

With the use of two trimmers the dead fields, that usually LED and fluorescent lamps have, are eliminated. The first trimmer is used for the minimum and the other one for the maximum brightness of the lamp. In this way the controller works correctly when adjusting the lamps’ brightness.

Master Slave operation

The new SMR dimmer can work as master, controlling multiple SMR dimmers connected at its DMX output. With this feature, as many SMR dimmers as the user likes can be controlled from one controller.

CFL ignition

CFLs (Compact Fluorescent Lamps) in order to ignite need operating voltage of more than approximately 50%. Thus, in order to turn on a CFL at 30% for example, the user should first adjust the dimmer over 50% and afterwards dim it at 30%.

The new SMR dimmer is capable of providing a pulse of 100%, of the output voltage, for 1 sec automatically, in case we need to turn on the lamps at percentages less than 50%.

The new SMR dimmer incorporates both DMX-512 and analogue inputs. At the analogue input the user can connect 0/10V, or 1/10V, or rheostat 100log, or button for ON - OFF and dimming, or UP/DOWN button for ON - OFF and dimming.

PWM signal output

The new SMR dimmer incorporates PWM signal output, providing the capability of driving constant voltage and constant current converters of ELECTRON SA. Thus, with one controller the user can control multiple types of lighting fixtures.
DMR.731
TRAILING EDGE
DIMMER

**Economic solution for controlling:**
- Dimmable LEDs 230V.
- Dimmable CFLs.
- Trailing edge dimmable Electronic Transformers.

- Handles great inrush currents.
- Lamps connected up to 350W.
- Dimming Law Correction eliminating dead fields of the lamps.
- Master-Slave operation for controlling multiple Dimmers with one controller.
- CFL ignition.
- DMX-512 input.
- Analogue input (0/10V, 1/10V, rheostat 100log, button, UP/DOWN button).
- PWM signal output can drive ELECTRON SA constant voltage and constant current converters.

**Output power 350W**
Controlled by IGBT
MICON SERIES

ARCHITECTURAL WALL-MOUNTED DIMMERS AND FLUORESCENT CONTROLLERS

MICON is an extremely reliable and economic lighting controller that offers energy saving solutions. It is suitable for medium and small lighting control applications in hotels, restaurants, multi-use buildings, board rooms, cinemas, retail stores, foyers, offices, pubs, public areas, churches, museums and other architectural applications. Each controller has two on-board push buttons per channel for simple up/down stand alone operation. Each controller can be remote controlled by MICON B series of control panels or any simple slider/potentiometer or conventional dimmers available in the market. On top of these, the controllers can be connected to the ELECTRON Easynet for more sophisticated remote control solutions. This feature is offered by the MICON E series of control panels. The MICON series will provide reliable performance over many years.

MICON F SERIES
MICON FLUORESCENT CONTROLLERS

The MICON F series of controllers is designed to control High Frequency Fluorescent Ballasts. Each channel provides a relay power circuit and a control output of 1/+10V for dimming fluorescent lamps. The HF Ballasts are very efficient and are offered by a significant number of manufacturers in the market. When calculating the load power it is recommended to multiply the number of lamps x lamp wattage x 1.1. In order to prevent mains instant overloading, the MICON F series has a factory set soft start of 1 sec.

The power relays of the MICON F series can be used to switch on/off non-dimmable loads.

<table>
<thead>
<tr>
<th>Code</th>
<th>Supply voltage</th>
<th>Switched outputs</th>
<th>Control outputs</th>
<th>Output protection</th>
<th>Fade times</th>
<th>Control input</th>
<th>On-board Control</th>
<th>Power Monitor</th>
<th>Output Monitor</th>
<th>Dimensions in mm (WxHxD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MICON F106</td>
<td>230V 50HZ</td>
<td>One rated at 6A (1380W) each</td>
<td>One 1/+10V sink current</td>
<td>6A MCB</td>
<td>0.1 to 60sec</td>
<td>Easynet 0/+10V</td>
<td>With two push buttons (UP-DOWN) per channel</td>
<td>With one LED</td>
<td>With one LED</td>
<td>267x355x85</td>
</tr>
<tr>
<td>MICON F110</td>
<td>230V 50HZ</td>
<td>One rated at 10A (2300W) each</td>
<td>One 1/+10V sink current</td>
<td>10A MCB</td>
<td>0.1 to 60sec</td>
<td>Easynet 0/+10V</td>
<td>With two push buttons (UP-DOWN) per channel</td>
<td>With one LED</td>
<td>With one LED</td>
<td>267x355x85</td>
</tr>
<tr>
<td>MICON F116</td>
<td>230V 50HZ</td>
<td>One rated at 16A (3680W) each</td>
<td>One 1/+10V sink current</td>
<td>16A MCB</td>
<td>0.1 to 60sec</td>
<td>Easynet 0/+10V</td>
<td>With two push buttons (UP-DOWN) per channel</td>
<td>With one LED</td>
<td>With one LED</td>
<td>267x355x85</td>
</tr>
<tr>
<td>MICON F206</td>
<td>230V 50HZ</td>
<td>Two rated at 6A (1380W) each</td>
<td>Two 1/+10V sink current</td>
<td>6A MCB</td>
<td>0.1 to 60sec</td>
<td>Easynet 0/+10V</td>
<td>With two push buttons (UP-DOWN) per channel</td>
<td>With one LED</td>
<td>With one LED</td>
<td>267x245x85</td>
</tr>
<tr>
<td>MICON F210</td>
<td>230V 50HZ</td>
<td>Two rated at 10A (2300W) each</td>
<td>Two 1/+10V sink current</td>
<td>10A MCB</td>
<td>0.1 to 60sec</td>
<td>Easynet 0/+10V</td>
<td>With two push buttons (UP-DOWN) per channel</td>
<td>With one LED</td>
<td>With one LED</td>
<td>267x245x85</td>
</tr>
<tr>
<td>MICON F306</td>
<td>230V 50HZ</td>
<td>Three rated at 6A (1380W) each</td>
<td>Three 1/+10V sink current</td>
<td>6A MCB</td>
<td>0.1 to 60sec</td>
<td>Easynet 0/+10V</td>
<td>With two push buttons (UP-DOWN) per channel</td>
<td>With one LED</td>
<td>With one LED</td>
<td>267x245x85</td>
</tr>
<tr>
<td>MICON F310</td>
<td>230V 50HZ</td>
<td>Three rated at 10A (2300W) each</td>
<td>Three 1/+10V sink current</td>
<td>10A MCB</td>
<td>0.1 to 60sec</td>
<td>Easynet 0/+10V</td>
<td>With two push buttons (UP-DOWN) per channel</td>
<td>With one LED</td>
<td>With one LED</td>
<td>267x245x85</td>
</tr>
<tr>
<td>MICON F306T</td>
<td>230V 50HZ three phases &amp; neutral</td>
<td>Three rated at 6A (1380W) each</td>
<td>Three 1/+10V sink current</td>
<td>6A MCB</td>
<td>0.1 to 60sec</td>
<td>Easynet 0/+10V</td>
<td>With two push buttons (UP-DOWN) per channel</td>
<td>With one LED</td>
<td>With one LED</td>
<td>267x355x85</td>
</tr>
<tr>
<td>MICON F310T</td>
<td>230V 50HZ three phases &amp; neutral</td>
<td>Three rated at 10A (2300W) each</td>
<td>Three 1/+10V sink current</td>
<td>10A MCB</td>
<td>0.1 to 60sec</td>
<td>Easynet 0/+10V</td>
<td>With two push buttons (UP-DOWN) per channel</td>
<td>With one LED</td>
<td>With one LED</td>
<td>267x355x85</td>
</tr>
<tr>
<td>MICON F606T</td>
<td>230V 50HZ three phases &amp; neutral</td>
<td>Six rated at 6A (1380W) each</td>
<td>Six 1/+10V sink current</td>
<td>6A MCB</td>
<td>0.1 to 60sec</td>
<td>Easynet 0/+10V</td>
<td>With two push buttons (UP-DOWN) per channel</td>
<td>With one LED</td>
<td>With one LED</td>
<td>267x355x85</td>
</tr>
<tr>
<td>MICON F610T</td>
<td>230V 50HZ three phases &amp; neutral</td>
<td>Six rated at 10A (2300W) each</td>
<td>Six 1/+10V sink current</td>
<td>10A MCB</td>
<td>0.1 to 60sec</td>
<td>Easynet 0/+10V</td>
<td>With two push buttons (UP-DOWN) per channel</td>
<td>With one LED</td>
<td>With one LED</td>
<td>267x355x85</td>
</tr>
</tbody>
</table>
The MICON D series of Dimmers is designed to control incandescent lamps, tungsten, tungsten halogen, iron core wire wound transformers, electronic dimmable leading edge transformers and cold cathode light sources. In order to prevent mains instant overloading and to minimize the filament shock and lamp failure due to high inrush current when the lamp filament is cold, the MICON D series has a factory soft start of 1 sec. This feature reduces maintenance cost and provides longer lamp life as the soft start allows the filament to reach a safe temperature before full brightness.

### MICON D SERIES
#### MICON CONVENTIONAL DIMMERS

The MICON D series of Dimmers is designed to control incandescent lamps, tungsten, tungsten halogen, iron core wire wound transformers, electronic dimmable leading edge transformers and cold cathode light sources. In order to prevent mains instant overloading and to minimize the filament shock and lamp failure due to high inrush current when the lamp filament is cold, the MICON D series has a factory soft start of 1 sec. This feature reduces maintenance cost and provides longer lamp life as the soft start allows the filament to reach a safe temperature before full brightness.

**ORDERING INFORMATION EXAMPLE FOR MICON CONTROLLER AND CONTROLLERS**

**F: FLUORESCENT CONTROLLER**

**D: CONVENTIONAL DIMMER**

<table>
<thead>
<tr>
<th>NUMBER OF CHANNELS</th>
<th>MAXIMUM OUTPUT CURRENT PER CHANNEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 for one channel</td>
<td>06 for 6A 20 for 20A</td>
</tr>
<tr>
<td>2 for two channels</td>
<td>10 for 10A 25 for 25A</td>
</tr>
<tr>
<td>3 for three channels</td>
<td>16 for 16A 32 for 32A</td>
</tr>
</tbody>
</table>

**MICON D SERIES**

#### MICON CONVENTIONAL DIMMERS

The MICON D series of Dimmers is designed to control incandescent lamps, tungsten, tungsten halogen, iron core wire wound transformers, electronic dimmable leading edge transformers and cold cathode light sources. In order to prevent mains instant overloading and to minimize the filament shock and lamp failure due to high inrush current when the lamp filament is cold, the MICON D series has a factory soft start of 1 sec. This feature reduces maintenance cost and provides longer lamp life as the soft start allows the filament to reach a safe temperature before full brightness.

<table>
<thead>
<tr>
<th>Code</th>
<th>Supply voltage</th>
<th>Dimmers outputs</th>
<th>Output protection</th>
<th>Fade times</th>
<th>Control input</th>
<th>On-board Control</th>
<th>Power Monitor</th>
<th>Output Monitor</th>
<th>Dimensions in mm (WxHxD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MICON D106</td>
<td>230V 50HZ single phase</td>
<td>One channel at 6A (1380W) each</td>
<td>6A MCB</td>
<td>0.1 to 60sec</td>
<td>Easy start</td>
<td>+10V</td>
<td>With two push buttons (UP-DOWN)</td>
<td>With one LED</td>
<td>With one LED</td>
</tr>
<tr>
<td>MICON D110</td>
<td>230V 50HZ single phase</td>
<td>One channel at 10A (2300W) each</td>
<td>10A MCB</td>
<td>0.1 to 60sec</td>
<td>Easy start</td>
<td>+10V</td>
<td>With two push buttons (UP-DOWN)</td>
<td>With one LED</td>
<td>With one LED</td>
</tr>
<tr>
<td>MICON D116</td>
<td>230V 50HZ single phase</td>
<td>One channel at 16A (3600W) each</td>
<td>16A MCB</td>
<td>0.1 to 60sec</td>
<td>Easy start</td>
<td>+10V</td>
<td>With two push buttons (UP-DOWN)</td>
<td>With one LED</td>
<td>With one LED</td>
</tr>
<tr>
<td>MICON D206</td>
<td>230V 50HZ single phase</td>
<td>One channel at 20A (4600W) each</td>
<td>20A MCB</td>
<td>0.1 to 60sec</td>
<td>Easy start</td>
<td>+10V</td>
<td>With two push buttons (UP-DOWN)</td>
<td>With one LED</td>
<td>With one LED</td>
</tr>
<tr>
<td>MICON D210</td>
<td>230V 50HZ single phase</td>
<td>One channel at 25A (6750W) each</td>
<td>25A MCB</td>
<td>0.1 to 60sec</td>
<td>Easy start</td>
<td>+10V</td>
<td>With two push buttons (UP-DOWN)</td>
<td>With one LED</td>
<td>With one LED</td>
</tr>
<tr>
<td>MICON D306</td>
<td>230V 50HZ single phase</td>
<td>One channel at 32A (7360W) each</td>
<td>32A MCB</td>
<td>0.1 to 60sec</td>
<td>Easy start</td>
<td>+10V</td>
<td>With two push buttons (UP-DOWN)</td>
<td>With one LED</td>
<td>With one LED</td>
</tr>
<tr>
<td>MICON D306T</td>
<td>230V 50HZ three phases &amp; neutral</td>
<td>Two channels rated at 6A (1380W) each</td>
<td>2x6A MCBs</td>
<td>0.1 to 60sec</td>
<td>Easy start</td>
<td>+10V</td>
<td>With two push buttons (UP-DOWN)</td>
<td>With one LED</td>
<td>With one LED</td>
</tr>
<tr>
<td>MICON D306T</td>
<td>230V 50HZ three phases &amp; neutral</td>
<td>Three channels rated at 10A (2300W) each</td>
<td>3x10A MCBs</td>
<td>0.1 to 60sec</td>
<td>Easy start</td>
<td>+10V</td>
<td>With two push buttons (UP-DOWN)</td>
<td>With one LED</td>
<td>With one LED</td>
</tr>
<tr>
<td>MICON D310</td>
<td>230V 50HZ single phase</td>
<td>One channel at 25A (6750W) each</td>
<td>25A MCB</td>
<td>0.1 to 60sec</td>
<td>Easy start</td>
<td>+10V</td>
<td>With two push buttons (UP-DOWN)</td>
<td>With one LED</td>
<td>With one LED</td>
</tr>
<tr>
<td>MICON D310</td>
<td>230V 50HZ single phase</td>
<td>One channel at 16A (3600W) each</td>
<td>16A MCB</td>
<td>0.1 to 60sec</td>
<td>Easy start</td>
<td>+10V</td>
<td>With two push buttons (UP-DOWN)</td>
<td>With one LED</td>
<td>With one LED</td>
</tr>
<tr>
<td>MICON D310</td>
<td>230V 50HZ single phase</td>
<td>One channel at 10A (2300W) each</td>
<td>10A MCB</td>
<td>0.1 to 60sec</td>
<td>Easy start</td>
<td>+10V</td>
<td>With two push buttons (UP-DOWN)</td>
<td>With one LED</td>
<td>With one LED</td>
</tr>
<tr>
<td>MICON D606</td>
<td>230V 50HZ three phases &amp; neutral</td>
<td>Three channels rated at 6A (1380W) each</td>
<td>3x6A MCBs</td>
<td>0.1 to 60sec</td>
<td>Easy start</td>
<td>+10V</td>
<td>With two push buttons (UP-DOWN)</td>
<td>With one LED</td>
<td>With one LED</td>
</tr>
<tr>
<td>MICON D610</td>
<td>230V 50HZ three phases &amp; neutral</td>
<td>Six channels rated at 10A (2300W) each</td>
<td>6x10A MCBs</td>
<td>0.1 to 60sec</td>
<td>Easy start</td>
<td>+10V</td>
<td>With two push buttons (UP-DOWN)</td>
<td>With one LED</td>
<td>With one LED</td>
</tr>
</tbody>
</table>
Micron Control Panels B & E Series

The Micron B and E series of control panels are used to control the Micron Dimmers and Fluorescent Controllers. The Micron B series of Base control panels is offered with sliders or push buttons and is used in cases of simple control requirements. Parallel connection of Micron BB series of push buttons is possible. The Micron E series of Electronic control panels is the most popular choice for commercial applications as it provides more sophisticated control, such as level control and combination between level control, electronic sliders and electronic push buttons. Parallel connection between the same or different types of Micron E series is possible. The panels are available in stainless steel and are designed to fit in a single gang or double gang back box. The power supply is provided from the Dimmers and/or Fluorescent Controllers.

Ordering Information Example for Micron Control Panels

<table>
<thead>
<tr>
<th>E: Electronic Control</th>
<th>B: Base Control</th>
<th>S: Control with Sliders</th>
<th>L: Level Control Panel (Off-Level A-Level B-Full)</th>
<th>B: Up/Down Control (Push Buttons)</th>
<th>Master Control (when available)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1: One Output</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2: Two Outputs</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3: Three Outputs</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6: Six Outputs</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Micron B Series
Base Eco Control Panels

Micron E Series
Electronic Easynet Control Panels

Cinema Adaptor Controller

The Cinema Adaptor is an interface which converts the commands given by the cinema projector into commands which can be read from Micron and Premium dimmer series.
TEMPO 12 CONTROL DESKS

DMX LIGHTING CONTROL DESK

Tempo 12 is the most powerful 12 channel control desk that combines low cost and high performance. It is suitable for permanent installations or touring requirements for either small stages, studios or theaters.

Features

- 12 Presets which can be assigned to control 12 channels or 12 programmable memories.
- 12 Flash buttons.
- 12 Monitor LEDs.
- Chaser with three operating modes and three functions per mode.
- Rate indicator with LED flashing at rate speed.
- Capability of assigning the chase to two six-channel groups: (group 1 = 1-6 chan., group 2 = 7-12 chan.).
- Chase master with chase off button.
- Grand master with blackout button.
- Analogue output.
- Digital output.

CDS.219 CONTROL DESKS

DMX LIGHTING CONTROL DESK

- 6 channel faders plus master.
- Can operate with battery or AC/DC adaptor.
- Simple to use.
- Desk top or wall mounted.
- Can also operate as a DMX tester.

Code

CDS.219

TECHNICAL SPECIFICATIONS

- POWER INPUT : 9 VDC , 1W
- DMX OUTPUT : 3-pin female DMX connector
- BATTERY (not included) : PP3, 9V
- DIMENSIONS : 173x153x55mm
- WEIGHT (battery excluded) : 0.6Kg

AC/DC adaptor, Input 230 VAC / Output 9 VDC, supplied with the control desk.
SCENE SETTER 24
24 DMX CHANNELS LIGHT CONTROLLER

<table>
<thead>
<tr>
<th>Model</th>
<th>Code</th>
<th>No. of channels</th>
<th>Input Voltage</th>
<th>Dimensions</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCENE SETTER 24</td>
<td>CD5.005</td>
<td>24</td>
<td>12-18VDC (500mA)</td>
<td>482x264x85mm</td>
<td>4.8kg</td>
</tr>
</tbody>
</table>

SCENE SETTER 48
48 DMX CHANNELS LIGHT CONTROLLER

<table>
<thead>
<tr>
<th>Model</th>
<th>Code</th>
<th>No. of channels</th>
<th>Input Voltage</th>
<th>Dimensions</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCENE SETTER 48</td>
<td>CD5.004</td>
<td>48</td>
<td>12-20VDC (500mA)</td>
<td>710x270x75mm</td>
<td>7.5kg</td>
</tr>
</tbody>
</table>

TECHNICAL SPECIFICATIONS

- DMX OUTPUT (3-pin Female XLR).
- MIDI IN/OUT/THRU (5-pin DIN) Compatible.
- Audio Control through Line IN (100mV-1Vp-p).
- 3 seven segments LED DISPLAY.
- Single Chase/Mix Chase - Single Scene/Mix Scene Operation.
- Master FADE / SPEED / AUDIOLEVEL Control.

SCENE SETTER 24
- 24 DMX Control Channels.
- Recordable memories for static scenes chaser programs with 4500 total steps.
- Power input (power pack included 230VAC/50-60Hz).
SWEETLIGHT CONTROLLER

DMX SOFTWARE LIGHTING CONTROLLERS

SWEETLIGHT CONTROLLER

THE SOFTWARE

SweetLight provides the ultimate solution for lighting control. It offers the possibility of direct user control, from simple parcans to the most complex moving lights, with a computer, the software and the interface. A computer is loaded with software to build and control the lighting show, connecting to the interface via a USB port.

The software is designed to be very user-friendly and can easily be used by even those whose knowledge of computers is limited. We propose a unique software, which is free for download from our web site. The software is available for Windows and MacOS. Until now, all software upgrades are free.

We propose a range of interfaces, adapted to the various lighting applications. The interface can also run the lighting show by itself. The interface retains the data in a non-volatile memory, so that hard drive failure or loss of data will not interrupt the show.

The software contains several programs: dmx addressing, light scenes creation, live show, timeline show, 3D rendering. ControlBoard is a control panel from where you can run all these different programs. Click the program icon to start it.

Declare your lighting equipment in Setup. The library contains personality files (colors, gobos, etc) for the most common fixtures (mirror lights, moving heads, color changer, strobes, power units, etc).

The library is regularly updated on our site in order to stay current with new fixture releases. If the light you are using is not included, it is easy to add and configure new ones.

With Editor, create dynamic scenes. The screen manages:

- pan/tilt movements
- colors, gobos, etc
- hardwiring
- time and fade mode
- fixtures grouping

The screen looks similar to a "regular lighting desk", with advanced functions like copy, paste, insert, ...

In Generator, in a few mouse clicks, build complex lighting scenes, with pan/tilt movements and color (gobo) effects, for a group of moving lights, with fanning effect.

With Live, play the show in live. Live is customizable, depending on your needs (pages, buttons, presets).

A button can trigger a light scene, a multimedia file, or a timeline.

The screen can be locked by with a password.

It is also possible to change any channels from Editor, while Live plays the show.

Timeline is a synchronized multimedia show editing software. It is able to play multiple file formats (video, picture, audio and light scenes). Drop the files into the timelines and slide them in the desired time. The possible applications are:

- basic "sound and light". The readable audio files are wav, mp3, ogg and wma format.
- video and light" on plasma screen or video projector. The readable picture files are bmp, jpg, png, gif. The readable video files are avi, mpg, mpeg, mov, wmx.

3DView display the stage in 3 dimensions and it shows the lights moving in real time, from any point of view. Set stage size.

The program has a bank of basic objects (speakers, truss, music instruments). You can also import your own objects.

Set position (orientation, scale, color) of each object (or fixture). It is possible to set these parameters on a group of objects.

Set textures, luminosity, smoke level for more realism.

For total security, the interface can operate lights in stand-alone mode. From StandAlone, download dynamic scenes into the interface. Depending on the model, it is possible to store from 1 to 14 dynamic scenes for later recall without the need of a computer. The scenes can be swapped or added together. This system is not only ideal for backup during big shows, but also to run stand alone installations where simple use is important, like exhibitions and architectural lighting.
SWEETLIGHT CONTROLLER

THE HARDWARE

When linked to the computer, the interfaces do the same job. The major differences concern the stand-alone using (without computer).

- If you want to always play the show with the computer, and you have only a few lights, the interface “Cable” should be the best choice.
- If you want to always play the show with the computer, and you have a lot of lights, the interface “D512” should be the best choice.
- If you want to always play the show with the computer, and you want to use an DMX lighting desk together with our software, the interface “Box” should be the best choice.
- If you want the interface plays the show without computer and you want to trigger the scenes with a remote controller, the interface “Remote” should be the best choice.
- If you want the interface plays the show without computer and you want to trigger the scenes with buttons, the interface “Ssa” should be the best choice.

![USB - DMX cable.](image)
- The interface “Cable” allows to discover an “entry level” version of our software, for a very low price.
- USB - DMX cable.
- LED for USB link.
- Max 100 DMX channels.
- Max 10 fixtures.
- 3D rendering only while interface is not connected.
- Max 20 scenes running together.
- Software downloadable from internet.
- This interface does not work on MacOS.

![Metal casing.](image)
- The interface “D512” allows to use our software without any restriction, with 512 DMX channels and 512 Artnet channels.
- Metal casing.
- 2 leds in front panel (power and USB link).
- USB link with computer.
- DMX output for lighting equipment.
- Thermal protection on DMX ground.
- This interface can play a “dynamic” scene for 512 DMX channels, without computer.

![3 leds in front panel (power, IR data and USB).](image)
- The interface “Remote” works with a universal IR remote controller.
- Metal casing.
- 3 leds in front panel (power, IR data and USB).
- IR sensor in front panel.
- IR link with computer.
- DMX output for lighting equipment.
- 2.5 jack socket for external power unit.
- External/external power switch.
- Cable locking system.
- 3.5 jack for external IR sensor.
- Mini DIN for external contacts.
- Optical isolation for DMX output.
- Up to 10 scenes can be uploaded into this interface. In stand alone mode, up to 4 scenes can be played simultaneously. These scenes can be triggered from an universal remote controller or from the optional dedicated remote controller, with control of speed of the show. An internal date/time calendar allows date/time triggering for stand-alone scenes.

![19" rack mount one unit height.](image)
- Code CSF.001
- The interface “Cable” allows to discover an “entry level” version of our software, for a very low price.
- Code CSF.002
- The interface “D512” allows to use our software without any restriction, with 512 DMX channels and 512 Artnet channels.
- Code CSF.003
- The interface “Remote” works with a universal IR remote controller.
- Code CSF.004
- 19” rack mount one unit height.
- Code CSF.005
- Metal casing.

ELECTRON SA, PROFESSIONAL LIGHTING SYSTEMS
7 km National Road Athens - Lamia, 68 Antonios Str, N. Philadelphia, 143 41 Athens, Greece, Tel. +30 210 2584240, Fax. +30 210 2584245, info@electron.gr, www.electron.gr
ARLIC system consists of:

- Control panels of 6 or 18 scenarios.
- 8 analogue input interface.
- 4 mains voltage (230VAC) input interface.
- Infrared remote control.
- Lighting programmer.

ARLIC system can control up to 32 scenarios each. Each scenario can be a scene with programmable fade in-out, or a chaser with programmable rate and fade.

By using the 8 analogue input interface it is possible to connect to the system other control panels such as 0-10V, 1-10V rheostats, single push buttons, up-down push buttons, presence detectors and relay contacts. By using the 4 mains voltage (230VAC) input interface it is possible to connect to the system common motion detectors, wall mounted switches (230VAC), as well as to have mains voltage monitoring for emergency functions.

The scenario selection buttons of all the system control panels are programmable. Any scenario can be activated from the desired button. Also, the buttons of each control panel can be grouped and function in different ways of scenario selection. The control panels can, optionally, have an IR receiver so as to accept commands from the system’s IR remote control. With the remote control there is the possibility of controlling up to 18 scenarios.

The architectural lighting controller manages all the commands that are sent by the control panels and interfaces, it activates the lighting scenarios and scheduled events and it transfers them to the 512 channels of the DMX-512 output. By this way, any DMX device can be connected to the ARLIC system. The architectural lighting controller is also equipped with a DMX-512 input with an incorporated merger. From the DMX-512 input and by using a DMX control desk it is possible to control the illumination of spaces with capability of de-activating (Blocking) selected control panels.

An Emergency Scenario for each zone can be automatically activated when the ARLIC system detects power failure and activation of the electric generator, avoiding this way network overload. Also, a Panic Scenario for each zone can be activated from an external emergency heavy duty push button for lighting all areas in special cases.

The ARLIC system network (ARLICnet) is based on the Controller Area Network (CAN) protocol which is a real-time, serial, broadcast protocol with a very high level of security.

In ARLICnet there can be up to 96 Nodes of control panels and interfaces, while it is divided in 6 Segments which are connected by the repeaters. The topology of ARLICnet can be Linear, Star, Tree, Ring or a combination of those.
Ideal in small installations or in applications where cost is a crucial factor, control panels of 6 or 18 scenarios with incorporated DMX output can be used.

The ARLIC lighting control system can manage up to 60 DMX channels, while it is also possible that the control panels have an IR receiver for the IR remote control ARS.004.

The ARLIC can control up to 32 scenarios and can support up to 48 nodes (16 control panels ARS.009/010/011/012, 16 analogue interfaces ARS.002 and 16 high voltage interfaces ARS.001). Also emergency lighting conditions are supported by the system.

### ARLIC Controllers

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARS.013</td>
<td>Control panel and controller with 6 scenarios and DMX output.</td>
</tr>
<tr>
<td>ARS.014</td>
<td>Control panel and controller with 6 scenarios, infrared receiver and DMX output.</td>
</tr>
<tr>
<td>ARS.015</td>
<td>Control panel and controller with 18 scenarios and DMX output.</td>
</tr>
<tr>
<td>ARS.016</td>
<td>Control panel and controller with 18 scenarios, infrared receiver and DMX output.</td>
</tr>
<tr>
<td>ARS.023</td>
<td>Wall mounted control panel and controller with 6 scenarios and DMX output.</td>
</tr>
<tr>
<td>ARS.024</td>
<td>Wall mounted control panel and controller with 6 scenarios, infrared receiver and DMX output.</td>
</tr>
<tr>
<td>ARS.025</td>
<td>Wall mounted control panel and controller with 18 scenarios and DMX output.</td>
</tr>
<tr>
<td>ARS.026</td>
<td>Wall mounted control panel and controller with 18 scenarios, infrared receiver and DMX output.</td>
</tr>
</tbody>
</table>
CONTROL PANELS OF 6 & 18 SCENARIOS FOR ARLIC

- Control panels of 6 and 18 scenarios.
- IR receiver (optional).
- Programmable buttons.
- Button grouping.
- Multiple button operation modes.
- Up and down dimming buttons.
- Monitor LEDs for active scenarios.
- Status backup on power failure.
- DMX-512 output for stand alone operation.
- ARUCnet port.
- Variety of colours.

ARS.009
Control panel with 6 scenarios.
ARS.010
Control panel with 6 scenarios and infrared receiver.
ARS.027
Wall mounted control panel with 6 scenarios.
ARS.028
Wall mounted control panel with 6 scenarios and infrared receiver.

ARS.011
Control panel with 18 scenarios.
ARS.012
Control panel with 18 scenarios and infrared receiver.
ARS.029
Wall mounted control panel with 18 scenarios.
ARS.030
Wall mounted control panel with 18 scenarios and infrared receiver.

Standard colours for frames and panels are BLACK or WHITE.
Other colours of frame and panels: GREY, IVORY, STAINLESS STEEL, ANTHRACITE or ALUMINIUM are available at extra cost.
Analog interface

**ARS.002 for ARLIC**

- 8 programmable analogue inputs.
- Input grouping.
- Multiple input operation mode.
- Status backup on power failure.
- ARLICnet port.
- Up to 16 interfaces supported by ARLICnet.

The analogue inputs can be used to connect 0-10V control panels, 1-10V rheostats, single push buttons, up-down push buttons, presence detectors and relay contacts.

High voltage interface

**ARS.001 for ARLIC**

- 4 programmable H.V. (230VAC) inputs.
- Input grouping.
- Multiple input operation mode.
- Status backup on power failure.
- ARLICnet port.
- Up to 16 interfaces supported by ARLICnet.

The inputs can be used to connect common motion detectors, wall mounted switches or buttons (230VAC), while it is possible to have mains voltage monitoring for emergency functions.

IR remote control

**ARS.004 for ARLIC**

- Remote control of 18 scenarios.
- Selection of active zone.*
- Up and down dimming buttons.
- Long effective range.
- No command conflict between zones.*
- Each zone can have its own remote control.*
- OFF button.

*Not available functions in the MINI ARLIC system.

Programmer

**ARS.008 for ARLIC**

- ARLIC system configuration.
- System devices setup.
- Scenario programming.
- Events programming.
- Emergency and panic programming.
- USB port for backup on memory stick.
- ARLICnet port.

Accessories for ARLIC

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<th>Accessories</th>
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<tr>
<td><strong>ARS.017</strong></td>
<td>1-10V electronic rheostat</td>
</tr>
<tr>
<td><strong>ARS.018</strong></td>
<td>Wall motion detector</td>
</tr>
<tr>
<td><strong>ARS.019</strong></td>
<td>Ceiling motion detector</td>
</tr>
<tr>
<td><strong>ARS.020</strong></td>
<td>Presence detector</td>
</tr>
<tr>
<td><strong>ARS.021</strong></td>
<td>RJ45 ARLIC net socket</td>
</tr>
<tr>
<td><strong>ARS.022</strong></td>
<td>Wall mounted RJ45 ARLIC net socket</td>
</tr>
<tr>
<td><strong>ARS.003</strong></td>
<td>ARLICnet repeater</td>
</tr>
<tr>
<td><strong>ARC.004</strong></td>
<td>Recessed wall box for 1 gang control panels. Supplied for the control panels if needed.</td>
</tr>
<tr>
<td><strong>ARC.005</strong></td>
<td>Recessed wall box for 2 gang control panels. Supplied for the control panels if needed.</td>
</tr>
<tr>
<td><strong>ARC.006</strong></td>
<td>Plasterboard box for 1 gang control panels. Supplied for the control panels if needed.</td>
</tr>
<tr>
<td><strong>ARC.007</strong></td>
<td>Plasterboard box for 2 gang control panels. Supplied for the control panels if needed.</td>
</tr>
</tbody>
</table>
The Splitter SP142 is the ideal tool for splitting and buffering the DMX512 signal. The Splitter has a termination switch and led indicator, DATA Led, optically isolated outputs and two outputs with reverse polarity buttons. The internal PCB carries spare ICs for quick emergency service. It is designed to be mounted on standard 19" rack (1U) but it can also be used as a desktop unit.

Features
- Termination switch with led indicator
- 6 optically isolated and buffered outputs
- 2 outputs with reverse polarity buttons
- 7 independent low voltage power supplies
- 2 spares ICs
- DMX IN and DMX THROUGH
- Supply voltage 220/240V 50Hz
- 7 fuses 100mA each (5x20mm)
- Data led
- Dimensions in mm (WxHxD): 483 x 44 x 170

DEM.002
- 5-pin XLR IN and THROUGH
- 4 isolated and buffered outputs on 5-pin XLR females
- 2 isolated and buffered outputs on 3-pin XLR females with reverse polarity buttons

DEM.003
- 3-pin XLR IN and THROUGH
- 6 isolated and buffered outputs on 3-pin females (2 of them with reverse polarity buttons)

DEM.014
- RJ-45 IN and THROUGH
- 6 isolated and buffered outputs on RJ-45 (2 of them with reverse polarity buttons)
**DMX REPEATER**

Can be used for expansion or/and branching of DMX network.

Code: **DEM.045**

**Features – Technical specifications.**

- DMX signal amplification.
- Input output optical isolation.
- Input signal termination capability.
- Connection up to 25 devices in output port.
- Capable of up to 5 Repeaters in series connection.
- Power supply: 230VAC 50/60Hz.
- Power consumption: 1.8 W
- Ambient temperature: -20 / +50°C.
- 0.5-2.5mm² screw terminals, for DMX input and output cable connection.
- Dimensions: L x W x H: 125mm x 68.5mm x 42.5mm.

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**DMX MERGER SPLITTER**

Can be used for merging information from two separate DMX signals in one.

Code: **DEM.046**

**Features – Technical specifications.**

- Two DMX-512 inputs.
- Two optical isolated outputs.
- Optical isolation between two outputs.
- Four operating modes (HTP, LAST, BACKUP, MERGE).
- Dip switches for start address selection.
- Dip switch for DMX signal termination on each input.
- Connection up to 25 devices on each output port.
- Two XLR 5-pin male plugs for DMX input connection.
- Two XLR 5-pin female plugs for DMX output connection.
- Power supply: 230VAC 50/60Hz.
- Power consumption: 2W
- Ambient temperature: -20 / +50°C.
- Dimensions L x W x H: 173.5mm x 68.5mm x 42.5mm.