Lighting Management & Control Systems

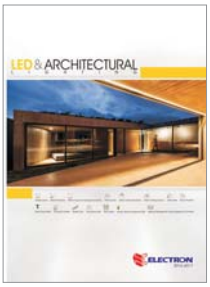
ELECTRON

ELECTRON SA

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.



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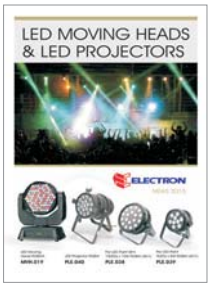

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Thus, ELECTRON SA also offers complete solutions of Lighting Control, LED illumination and Architectural Lighting as well. Indeed, the ELECTRON team is willing to continue offering you in the future technologically advanced dimmers and controllers, 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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PREMIUM SERIES

Designed & Manufactured
by ELECTRON SA

YOU SAY IT, WE MAKE IT!

CUSTOM-MADE
Wall-Mounted Multi-Functional Power Controllers

- Power Control for different kinds of loads in the same enclosure.
- Stage Power Controller with architectural capabilities.
- Architectural Power Controller with emergency capabilities.
- Compatibility with a large range of architectural control panels.
- Leading edge dimmers in power range from 1380W up to 5750W per channel.
- Three basic models with 3 to 48 channel capacity.

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.

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Designed & Manufactured
by ELECTRON SA

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 been 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 been reduced at the maximum possible level, while in the active state (ON state) the thermal losses are been 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)


4x6A. 2pole relay


3x10A. 2pole relay


2x16A. 2pole relay


4x16A. 1pole relay

PREMIUM 79-68-37 SERIES Of Multifunctional Custom Made Power Controllers NEW POWER UNITS WITH TRAILINIG 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**

✓ *Trailing edge dimmers*
✓ *Leading edge dimmers*
✓ *HF fluorescent controllers*
✓ *Relay switches*

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!

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PREMIUM 79

- **Innovative**
- **Advanced**
- **Flexible**
- **High-Tech**
- **Reliable**
- **User Friendly**

are the words that characterize
the NEW **Multifunctional Power Controller**
PREMIUM 79

Designed & Manufactured
by ELECTRON SA

YOU SAY IT, WE MAKE IT!

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.

Expansion ports

* To be available in the near future.

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PREMIUM 79

Interior connections
Upper front part (door) opening

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, HTP merge, LTP merge, Priority merge, Sequence merge, and Last merge.
It can operate with two lighting desks. Several channels can be programmed from each desk, or 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, to 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, Ethernet). 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 HTP merge or LTP 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.

Up to 4 RCDs can be fitted

or

Heavy duty mains switch

Flexible

Premium79 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, sine wave dimmers, LED drivers.The outputs can have one pole MCB, MCB P+N, and RCBO. 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.

Interior connections

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.

Heavy duty lifting eye bolts

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 fatal 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.

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User interface using Keyboard, 128x64 dot matrix display, and two encoders for easy programming

Accessory for easy wall mounting (available with Premium 79)

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 Premium79.

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 (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, 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 - 59min 59,9sec.)
- Up to 128 programmable chasers with programmable fade in/out (0 - 59,9sec.), speed rate (0,05 - 59,99sec.).
- 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 - 59,9sec.) 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 microcontrollers offering processing power of more than 50MIPS (Millions Instructions per Second).
- 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.
- MCB protection for each channel.
- P+N MCBs 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, 70mm^2.
- Three phase power supply (400/230V~ 3/N/PE/50Hz)
- Delta models available on request.

Dimensions in mm (WxHxD)

PREMIUM 79: 750x1115x155

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PREMIUM 68
PREMIUM 37

Designed & Manufactured
by ELECTRON SA

YOU SAY IT, WE MAKE IT!

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.

PREMIUM 68 SERIES

PREMIUM 681
6X25A DIMMER

PREMIUM 684
12X16A DIMMER

PREMIUM 683
3X25A and
6X16A DIMMER

PREMIUM 685
3X25A and
9X10A DIMMER

PREMIUM 684
12X16A
MAIN SWITCH

PREMIUM 684
12X16A RCCB

PREMIUM 684
12X16A DELTA

PREMIUM 37 SERIES

PREMIUM 371
3X25A

PREMIUM 372
6X16A RELAY

PREMIUM 375
9X10A

PREMIUM 378
12X6A RELAY

PREMIUM 372
6X16A DELTA

PREMIUM 379
12X16A HF
FLUORESCENT
CONTROLLER

PREMIUM 372
6X16A
MAIN SWITCH

PREMIUM 372
6X16A RCCB

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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 over-heating.
- 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

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ORDERING INFORMATION FOR PREMIUM 68 & 37 SERIES OF WALL MOUTED MULTIFUNCTIONAL POWER CONTROLLERS

ORDERING INFORMATION FOR PREMIUM SERIES

MODEL	Channel Configuration Code		Device Option Code	Power Unit 1 Code	Power Unit 2 Code	Power Unit 3 Code	Power Unit 4 Code	Power Unit 5 Code	Power Unit 6 Code
P37	X	-	X	X	X	X			
P68	X	-	X	X	X	X	X	X	X

PREMIUM 68 CHANNEL CONFIGURATION CODES

CODE	CHANNEL CONFIGURATION	POWER UNITS CHANNELS X CAPACITY 1	2	3	4	5	6
1	6x25A	1x25A	1x25A	1x25A	1x25A	1x25A	1x25A
2	4x25A + 2x16A/6A + 3x10A/4A	1x25A	1x25A	1x25A	1x25A	2x16A/6A	3x10A/4A
3	3x25A + 6x16A/6A	1x25A	1x25A	1x25A	2x16A/6A	2x16A/6A	2x16A/6A
4	12x16A/6A	2x16A/6A	2x16A/6A	2x16A/6A	2x16A/6A	2x16A/6A	2x16A/6A
5	3x25A + 9X10A/4A	1x25A	1x25A	1x25A	3x10A/4A	3x10A/4A	3x10A/4A
6	12x10A	2x10A	2x10A	2x10A	2x10A	2x10A	2x10A

PREMIUM 37 CHANNEL CONFIGURATION CODES

CODE	CHANNEL CONFIGURATION	POWER UNITS CHANNELS X CAPACITY 1	2	3
1	3x25A	1x25A	1x25A	1x25A
2	6x16A/6A	2x16A/6A	2x16A/6A	2x16A/6A
3	1x25A + 2x16A/6A + 3x10A/4A	1x25A	2x16A/6A	3x10A/4A
4	2x25A + 4x6A/3A	1x25A	1x25A	4x6A/3A
5	9x10A/4A	3x10A/4A	3x10A/4A	3x10A/4A
6	1x25A + 8x6A/3A	1x25A	4x6A/3A	4x6A/3A
7	2x16A/6A + 3x10A/4A + 4x6A/3A	2x16A/6A	3x10A/4A	4x6A/3A
8	12x6A/3A	4x6A/3A	4x6A/3A	4x6A/3A
9	12x16A only relay 1P & HF 1P	4x16A	4x16A	4x16A
A	6x25A or 32A only relay 1P, HF 1P	2x25A/32A	2x25A/32A	2x25A/32A
B	6x10A	2x10A	2x10A	2x10A
C	12x10A only relay 1P & HF 1P	4x10A	4x10A	4x10A

Ordering code example 1: P372-1555.
Premium 37 with three phase star power supply, one pole MCBs, 6x16A leading edge triac dimmers with rise time 50μs.

Ordering code example 2: P685-4444CGN.
Premium 68 with three phase star power supply, P+N MCBs, four pole main switch, 3x25A leading edge thyristor dimmers with rise time 200μs, 3x10A leading edge triac dimmers with rise time 100μs, 3x10A Fluorescent controller with one pole relay and 3x10A one pole relay switch.

Note 1:
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 X capacity, indicated in channel configuration tables. For example, the codes corresponding to 2x16A are 5, 6, 7, 8, 9, A, E, F, L and M.

Note 2:
The HF Fluorescent and Relay switch Power Units should always be installed last in the dimmer configuration.

DEVICE OPTIONS CODES

CODE	DESCRIPTION	CODE	DESCRIPTION
1	One pole MCBs (Three Phase Star)	D	Two pole MCBs (Three Phase Delta)
2	P+N MCBs (Three Phase Star)	E	Two pole MCBs / 3P main switch (Three Ph. Delta)
3	One pole MCBs / Four pole main switch (Three Phase Star)	F	P+N RCBOs (Three Phase Star)
4	P+N MCBs / Four pole main switch (Three Phase Star)	G	P+N RCBOs / Four pole main switch (Three Phase Star)
5	One pole MCBs / RCD (30mA) (Three Phase Star)	H	P+N RCBOs / Four pole main MCB (Three Phase Star)
6	P+N MCBs / RCD (30mA) (Three Phase Star)	I	Two pole MCBs (10kA) / RCD (30mA) (Three Ph. Delta)
7	One pole MCBs (Single Phase)	J	One pole MCBs / RCD (30mA) / By-pass (Three Phase Star)
8	P+N MCBs (Single Phase)	K	One pole MCBs / 4P Main Sw. / By-pass (Three Phase Star)
9	One pole MCBs / Four pole main switch (Single Phase)	L	One pole MCBs / By-pass (Three Phase Star)
A	P+N MCBs / Four pole main switch (Single Phase)	M	One pole MCBs / 4P Main MCB. (Three Phase Star)
B	One pole MCBs / RCD (30mA) (Single Phase)	N	One pole MCBs / 4P Main Sw / RCD (30mA) (Three Phase Star)
C	P+N MCBs / RCD (30mA) (Single Phase)		

POWER UNITS CODES

CODE	DESCRIPTION	CODE	DESCRIPTION
1	1x25A leading edge Triac Dimmer. R.t=100μs	R	4x16A One pole Relay switch
2	1x25A leading edge Triac Dimmer. R.t=200μs	S	2x25A One pole Relay switch
3	1x25A leading edge Thyristor Dimmer. R.t=100μs	T	2x32A One pole Relay switch
4	1x25A leading edge Thyristor Dimmer. R.t=200μs	U	2x10A leading edge Triac Dimmer. R.t=50μs (PLE310)
5	2x16A leading edge Triac Dimmer. R.t=50μs	V	2x10A leading edge Triac Dimmer. R.t=100μs (PLE310)
6	2x16A leading edge Triac Dimmer. R.t=100μs	W	2x10A leading edge Triac Dimmer. R.t=200μs (PLE216)
7	2x16A leading edge Triac Dimmer. R.t=200μs	X	2x10A leading edge Thyristor Dimmer. R.t=50μs (PLE216)
8	2x16A leading edge Thyristor Dimmer. R.t=50μs	Y	2x10A leading edge Thyristor Dimmer. R.t=100μs (PLE216)
9	2x16A leading edge Thyristor Dimmer. R.t=100μs	Z	2x10A leading edge Thyristor Dimmer. R.t=200μs (PLE216)
A	2x16A leading edge Thyristor Dimmer. R.t=200μs	01	2x10A HF Fluorescent Controller. One pole relay
B	3x10A leading edge Triac Dimmer. R.t=50μs	02	2x10A HF Fluorescent Controller. Two pole relay
C	3x10A leading edge Triac Dimmer. R.t=100μs	03	2x10A One pole Relay switch
D	4x6A leading edge Triac Dimmer. R.t=100μs	04	2x10A Two pole Relay switch
E	2x16A HF Fluorescent controller. One pole relay	05	4x10A leading edge Triac Dimmer. R.t=50μs (PLE410)
F	2x16A HF Fluorescent controller. Two pole relay	06	4x10A HF Fluorescent controller. One pole relay
G	3x10A HF Fluorescent controller. One pole relay	07	4x10A One pole Relay switch
H	3x10A HF Fluorescent controller. Two pole relay	08	4x3A Trailing Edge dimmer
I	4x6A HF Fluorescent controller. One pole relay	09	3x4A Trailing Edge dimmer
J	4x6A HF Fluorescent controller. Two pole relay	0B	2x6A Trailing Edge dimmer
K	4x16A HF Fluorescent controller. One pole relay	0C	2x16A One pole Hybrid Relay switch
L	2x16A One pole Relay switch	0D	2x16A Two pole Hybrid Relay switch
M	2x16A Two pole Relay switch	0E	3x10A One pole Hybrid Relay switch
N	3x10A One pole Relay switch	0F	3x10A Two pole Hybrid Relay switch
O	3x10A Two pole Relay switch	0G	4x6A One pole Hybrid Relay switch
P	4x6A One pole Relay switch	0H	4x6A Two pole Hybrid Relay switch
Q	4x6A Two pole Relay switch	0I	4x16A One pole Hybrid Relay switch

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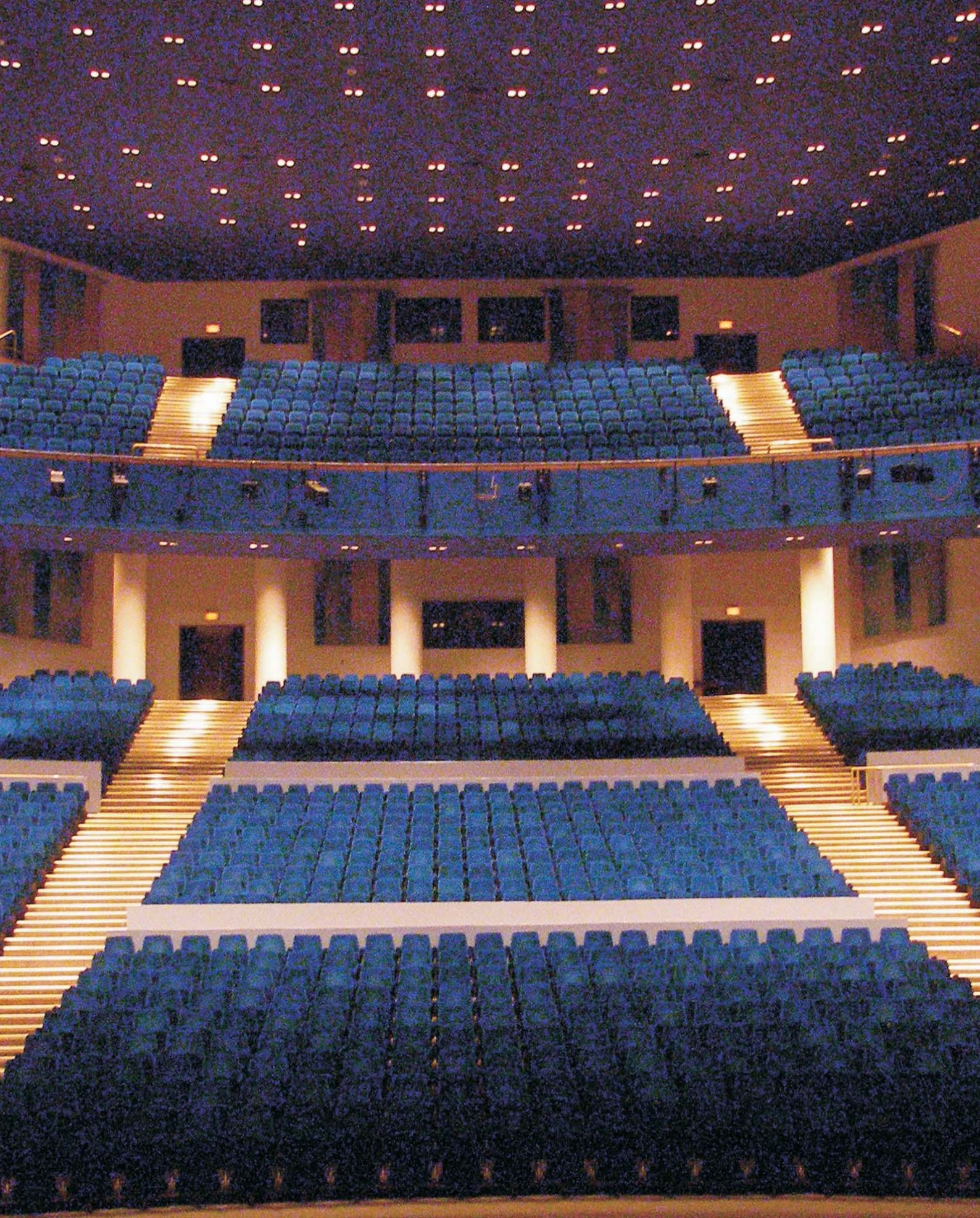

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ACTOR
616-325-625

Designed & Manufactured
by ELECTRON SA

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 Actor 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.

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


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
Also available with 6 RCBO

REAR SIDES


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

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ACTOR 325

- With 3 channels
- 5750W channel capacity (Watts at 230V)

ACTOR 325

ACTOR 325 with RCD

ACTOR 325 with MCBs P+N

ACTOR 325 with RCD & MCBs P+N

REAR SIDES

Rear side of ACTOR 325

Rear side of ACTOR 625

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

Designed & Manufactured by ELECTRON SA

ACTOR 625

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

ACTOR 625

ACTOR 625 with RCD

ACTOR 625 with MCBs P+N

ACTOR 625 with RCD & MCBs P+N

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

Designed & Manufactured by ELECTRON SA

TECHNICAL SPECIFICATIONS		ACTOR 616	ACTOR 325	ACTOR 625
NUMBER OF CHANNELS		6	3	6
CHANNEL CAPACITY (WATTS at 230V)		3680W	5750W	5750W
MAXIMUM CURRENT PER CHANNEL		16A	25A	25A
DMX-512 SIGNAL BUFFER		YES	YES	YES
THREE LAWS (LINEAR-INCANDESCENT-SWITCH) SELECTABLE PER CHANNEL		YES	YES	YES
SUPPLY VOLTAGE 400/230V~3/N/PE/50HZ		YES	YES	YES
DIMENSIONS IN MM (WxHxD):	ACTOR 325 & ACTOR 616 (EXCEPT ACTOR 616 WITH SCREW TERMINALS)		482x132x340	
	ACTOR 625		482x177x340	
	ACTOR 616ST (WITH SCREW TERMINALS)		482x132x375	

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ACTOR 716-710

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.
- The dimmer pack is supplied with 3x63A mains switch (3x40A for ACTOR 710). RCCB can be supplied at additional cost.
- 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


ACTOR 716 with RCD


ACTOR 710


ACTOR 710 with RCD

REAR SIDES


SCHUKO & FRENCH


HARTING


SOCAPEX


ACTOR 716 with POWER CABLE


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

TECHNICAL SPECIFICATIONS	ACTOR 716	ACTOR 710
NUMBER OF CHANNELS	12	12
CHANNEL CAPACITY (WATTS AT 230V)	3680W	2300W
MAXIMUM CURRENT / CHANNEL	16A	10A
DMX-512 SIGNAL BUFFER	YES	YES
THREE LAWS (LINEAR, INCANDESCENT, SWITCH)	YES	YES
SUPPLY VOLTAGE 400/230V-3/N/PE/50Hz	YES	YES
DIMENSIONS IN MM (WxHxD)	482 x 132 x 365	482 x 132 x 365

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ACTOR BASE LEADING EDGE & ACTOR BASE TRAILING EDGE

Designed & Manufactured by ELECTRON SA

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.
- 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.
- 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.

ACTOR B 610

ACTOR B 610 with MCBs P+N

REAR SIDES

CEE 17 | SCHUKO-FRENCH SWISS-DANISH | GBS | SOCAPEX | HARTING | WIELAND

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

TECHNICAL SPECIFICATIONS	ACTOR B610 Leading Edge	ACTOR B610 Trailing Edge
NUMBER OF CHANNELS	6	6
CHANNEL CAPACITY (WATTS at 230V)	2300	2300
MAXIMUM CURRENT PER CHANNEL	10A	10A
SUPPLY VOLTAGE	400/230V~3/N/PE/ 50Hz	400/230V~3/N/PE/ 50Hz
DIMENSIONS IN MM (WxHxD):	482 x 88 x 340	482 x 88 x 340

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JAZZ SERIES

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


JAZZ 310 SCH & FRENCH


JAZZ 311 SCH & FRENCH


JAZZ 310 DANISH


JAZZ 311 DANISH


JAZZ 310 CEE


JAZZ 311 CEE


JAZZ 310 GBS


JAZZ 311 GBS

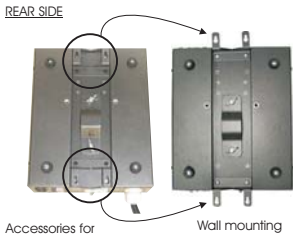

JAZZ 310 SWS


JAZZ 311 SWS


Accessory for
truss / tripod mounting


JAZZ 310 - JAZZ 311
with safety fune

REAR SIDE


Accessories for
wall mounting

Wall mounting

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APOLLO PLUS & APOLLO SERISES

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 or installation. All control sliders 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

Designed & Manufactured by ELECTRON SA

TECHNICAL SPECIFICATIONS

PORTABLE DIMMER PACKS	APOLLO PLUS 615C	615S 616S	616C
CHANNELS	6	6	6
CHANNEL CAPACITY	3450W	3680W	3680W
MAXIMUM CURRENT / CHANNEL	15A	16A	16A
LOAD TYPES	•Incandescent lamps •Iron core transformer for low-voltage incandescent lamps •Resistive & inductive loads		
HARD FIRED TRIACS	YES	YES	YES
OUTPUT FILTER	50μs (optional 100μs or 200μs)		
OUTPUT LED MONITORS	YES	YES	YES
HEAVY DUTY FUSE HOLDERS	YES	YES	-
CIRCUIT BREAKERS	-	-	YES
ANALOGUE INPUTS	0/+10VDC		
20VDC OUTPUT FOR EXTERNAL CONTROL DESK	YES	YES	YES
BUILD-IN SLIDERS+MASTER	-	-	YES
DMX 512 INPUT	YES	YES	YES
INDICATION OF DMX "FAULT" STATUS	YES	YES	YES
PROGRAMMABLE START ADDRESS	YES	YES	YES
DMX-512 SIGNAL BUFFER	YES	YES	YES
TERMINATION SWITCH	YES	YES	YES
HOLDING OF LAST DMX VALUE	YES	YES	YES
PROGRAMMABLE BEHAVIOR ON DMX SIGNAL INTERRUPTION	YES	YES	YES
5- DIGIT NUMERIC DISPLAY	YES	YES	YES
4-BUTTON KEYPAD, 2 OF WHICH CAN BE PROGRAMMED BY THE USER AS FUNCTION KEYS	YES	YES	YES
MENU DRIVEN SOFTWARE	YES	YES	YES
PASSWORD FOR SETTINGS PROTECTION	YES	YES	YES
LAWS	LINEAR, HALOGEN, AND FLUORESCENT		
SELECTABLE SWITCHED OUTPUT	YES	YES	YES
PROGRAMMABLE PREHEAT LEVEL PER CHANNEL	YES	YES	YES
PROGRAMMABLE PERCENTAGE OF OUTPUT VOLTAGE PER CHANNEL	YES	YES	YES
PROGRAMMABLE SOFT TURN-ON PER CHANNEL	YES	YES	YES
CHANNEL LEVEL CONTROL	SLIDERS	DIGITAL	SLIDERS
24 PROGRAMMABLE MEMORIES	YES	YES	YES
12 PROGRAMMABLE CHASERS	YES	YES	YES
12 FACTORY- SET CHASERS	YES	YES	YES
60- STEP LOOP FUNCTION	YES	YES	YES
MEMORY OR CHASE ASSIGNMENT OF SLIDERS	-	-	YES
DIAGNOSTIC TESTS	YES	YES	YES
WATCHDOG TIMER	YES	YES	YES
DC SPEED CONTROLLED, FAN ASSISTED CONVECTION COOLING	YES	YES	YES
HIGH TEMPERATURE DETECTION	YES	YES	YES
AUTO POWER HANDLING AT HIGH TEMPERATURE CONDITION	YES	YES	YES
POWER FAILURE AND POWER OFF MODES AT LOW POWER SUPPLY VOLTAGE	YES	YES	YES
DISABLED OUTPUT ON POWER SUPPLY OVER-VOLTAGE	YES	YES	YES
RACK MOUNTING	YES	YES	YES
WALL MOUNTING	YES	YES	YES
TRUSS MOUNTING	YES	YES	YES
HEAVY DUTY HANDLE	YES	YES	YES
230/400V-3/N/PE/50Hz,3 PHASE STAR CON/TION	YES	YES	YES
230V 3/PE/50Hz,3 PHASE DELTA CONNECTION	Optional	Optional	Optional
DIMENSIONS (WxHxD) IN MM	432 x 177 x 350		

*Delta version dimmers available upon request.


APOLLO PLUS 616S CEE 05230


APOLLO PLUS 616C SCH 05130
(Also available with DNS, SWS & CEE outlets)


APOLLO PLUS 616S FRS 05230
(Also available with SCH outlet)


APOLLO PLUS 616C WLD 05230


APOLLO PLUS 616C SCP 05230
(Also available with HARTING outlet)


APOLLO PLUS 615C GBS 05130


APOLLO PLUS 616C FRS 05130


APOLLO PLUS 616C HRT 05230

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APOLLO PLUS
625C-350C-363C

Designed & Manufactured
by ELECTRON SA

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 200μs.
- Output led monitors.
- Heavy duty fuse holders for **S** 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 **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.

REAR SIDE OF APOLLO PLUS

TECHNICAL SPECIFICATIONS

PORTABLE DIMMER PACKS	APOLLO PLUS 625C	350C	363C
CHANNELS	6	3	3
CHANNEL CAPACITY	5750W	11500W	14490W
MAXIMUM CURRENT / CHANNEL	25A	50A	63A
LOAD TYPES	•Incandescent lamps •Iron core transformer for low-voltage incandescent lamps •Resistive & inductive loads		
HARD-FIRED TRIACS	YES	-	-
OUTPUT FILTER	100μs (optional 200μs)	200μs	200μs
OUTPUT LED MONITORS	YES	YES	YES
HARD-FIRED THYRISTORS	-	YES	YES
CIRCUIT BREAKERS	YES	YES	YES
ANALOGUE INPUTS		0/ +10VDC	
20VDC OUTPUT FOR EXTERNAL CONTROL DESK	YES	YES	YES
BUILD-IN SLIDERS+ MASTER	YES	YES	YES
DMX 512 INPUT	YES	YES	YES
INDICATION OF DMX " FAULT" STATUS	YES	YES	YES
PROGRAMMABLE START ADDRESS	YES	YES	YES
DMX-512 SIGNAL BUFFER	YES	YES	YES
TERMINATION SWITCH	YES	YES	YES
HOLDING OF LAST DMX VALUE	YES	YES	YES
PROGRAMMABLE BEHAVIOR ON DMX SIGNAL INTERRUPTION	YES	YES	YES
5-DIGIT NUMERIC DISPLAY	YES	YES	YES
4-BUTTON KEYPAD, 2 OF WHICH CAN BE PROGRAMMED BY THE USER AS FUNCTION KEYS	YES	YES	YES
MENU DRIVEN SOFTWARE	YES	YES	YES
PASSWORD FOR SETTINGS PROTECTION	YES	YES	YES
LAWS	LINEAR, HALOGEN, AND FLUORESCENT		
SELECTABLE SWITCHED OUTPUT	YES	YES	YES
PROGRAMMABLE PREHEAT LEVEL PER CHANNEL	YES	YES	YES
PROGRAMMABLE PERCENTAGE OF OUTPUT VOLTAGE PER CHANNEL	YES	YES	YES
PROGRAMMABLE SOFT TURN-ON PER CHANNEL	YES	YES	YES
CHANNEL LEVEL CONTROL	SLIDERS	SLIDERS	SLIDERS
24 PROGRAMMABLE MEMORIES	YES	YES	YES
12 PROGRAMMABLE CHASERS	YES	YES	YES
12 FACTORY- SET CHASERS	YES	YES	YES
60- STEP LOOP FUNCTION	YES	YES	YES
MEMORY OR CHASE ASSIGNMENT OF SLIDERS	YES	YES	YES
DIAGNOSTIC TESTS	YES	YES	YES
WATCHDOG TIMER	YES	YES	YES
DC SPEED CONTROLLED, FAN ASSISTED CONVECTION COOLING	YES	YES	YES
HIGH TEMPERATURE DETECTION	YES	YES	YES
AUTO POWER HANDLING AT HIGH TEMPERATURE CONDITION	YES	YES	YES
POWER FAILURE AND POWER OFF MODES ON LOW POWER SUPPLY VOLTAGE	YES	YES	YES
DISABLED OUTPUT ON POWER SUPPLY OVERVOLTAGE	YES	YES	YES
RACK MOUNTING	YES	YES	YES
WALL MOUNTING	-	-	-
TRUSS MOUNTING	YES	YES	YES
HEAVY DUTY HANDLE	YES	YES	YES
230V 400V-3/N/PE/50Hz,3 PHASE STAR CON/TION.	YES	YES	YES
230V 3/PE/50Hz,3 PHASE DELTA CONNECTION	Optional	Optional	Optional
DIMENSIONS (WxHxD) IN MM	432 x 222 x 400		

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APOLLO PLUS 716

Designed & Manufactured
by ELECTRON SA

TECHNICAL SPECIFICATIONS

PORTABLE DIMMER PACKS	APOLLO PLUS 716S	APOLLO PLUS 716C
CHANNELS	12	12
CHANNEL CAPACITY	3680W	3680W
MAXIMUM CURRENT / CHANNEL	16A	16A
LOAD TYPES	•Incandescent lamps •Iron core transformer for low-voltage incandescent lamps •Resistive & inductive loads	
HARD FIRED TRIACS	YES	YES
OUTPUT FILTER	50μs (optional 100μs)	
OUTPUT LED MONITORS	YES	YES
HEAVY DUTY FUSE HOLDERS	YES	-
CIRCUIT BREAKERS	-	YES
ANALOGUE INPUTS	0/ +10VDC	
20VDC OUTPUT FOR EXTERNAL CONTROL DESK	YES	YES
BUILD-IN SLIDERS+ MASTER	-	YES
DMX 512 INPUT	YES	YES
INDICATION OF DMX" FAULT" STATUS	YES	YES
PROGRAMMABLE START ADDRESS	YES	YES
DMX-512 SIGNAL BUFFER	YES	YES
TERMINATION SWITCH	YES	YES
HOLDING OF LAST DMX VALUE	YES	YES
PROGRAMMABLE BEHAVIOR ON DMX SIGNAL INTERRUPTION	YES	YES
5 -DIGIT NUMERIC DISPLAY	YES	YES
4-BUTTON KEYPAD, 2 OF WHICH CAN BE PROGRAMMED BY THE USER AS FUNCTION KEYS	YES	YES
MENU DRIVEN SOFTWARE	YES	YES
PASSWORD FOR SETTINGS PROTECTION	YES	YES
LAWS	LINEAR, HALOGEN, AND FLUORESCENT	
SELECTABLE SWITCHED OUTPUT	YES	YES
PROGRAMMABLE PREHEAT LEVEL PER CHANNEL	YES	YES
PROGRAMMABLE PERCENTAGE OF OUTPUT VOLTAGE PER CHANNEL	YES	YES
PROGRAMMABLE SOFT TURN-ON PER CHANNEL	YES	YES
CHANNEL LEVEL CONTROL	DIGITAL	SLIDERS
24 PROGRAMMABLE MEMORIES	YES	YES
12 PROGRAMMABLE CHASERS	YES	YES
12 FACTORY- SET CHASERS	YES	YES
60- STEP LOOP FUNCTION	YES	YES
MEMORY OR CHASE ASSIGNMENT OF SLIDERS	-	YES
DIAGNOSTIC TESTS	YES	YES
WATCHDOG TIMER	YES	YES
DC SPEED CONTROLLED, FAN ASSISTED CONVECTION COOLING	YES	YES
HIGH TEMPERATURE DETECTION	YES	YES
AUTO POWER HANDLING AT HIGH TEMPERATURE CONDITION	YES	YES
POWER FAILURE AND POWER OFF MODES AT LOW POWER SUPPLY VOLTAGE	YES	YES
DISABLED OUTPUT ON POWER SUPPLY OVERVOLTAGE	YES	YES
RACK MOUNTING	YES	YES
WALL MOUNTING	-	-
TRUSS MOUNTING	YES	YES
HEAVY DUTY HANDLE	YES	YES
230/400V-3/N/PE/50Hz,3 PHASE STAR CON/TION	YES	YES
230V 3/PE/50Hz,3 PHASE DELTA CONNECTION	Optional	Optional
DIMENSIONS (WxHxD) IN MM	432 x 222 x 400	

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 **S** 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 **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.

REAR SIDE OF APOLLO PLUS

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APOLLO 615-616

Designed & Manufactured
by ELECTRON SA

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 **S** models and circuit breakers for **C** models.
- DMX 512 in/out (XLR 5pin connectors).
- DMX "OK" and "Fault" led indicators.
- 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.
- Models C are supplied with sliders + master.
- 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	APOLLO 615S	APOLLO 616S	APOLLO 616C 615C
CHANNELS	6	6	6
CHANNEL CAPACITY	3450W	3680W	3680W
MAXIMUM CURRENT / CHANNEL	15A	16A	16A
LOAD TYPES	• Incandescent lamps • Iron core transformer for low-voltage • Incandescent lamps • Resistive & inductive loads		
HARD FIRED TRIACS	YES	YES	YES
OUTPUT FILTER	50μs (optional 100μs)		
OUTPUT LED MONITORS	YES	YES	YES
HEAVY DUTY FUSE HOLDERS	YES	YES	-
CIRCUIT BREAKERS	-	-	YES
ANALOGUE INPUTS	0/+10VDC		
20VDC OUTPUT FOR EXTERNAL CONTROL DESK	YES	YES	YES
BUILD-IN SLIDERS+MASTER	-	-	YES
DMX 512 INPUT	YES	YES	YES
DMX "OK" & "FAULT" LED INDICATORS	YES	YES	YES
DMX-512 SIGNAL BUFFER	YES	YES	YES
HOLDING OF LAST DMX VALUE	YES	YES	YES
3 ROTARY SWITCHES FOR SELECTING START ADDRESS	YES	YES	YES
LAWS	LINEAR		
4 FACTORY- SET CHASERS	YES	YES	YES
CHANNEL LEVEL CONTROL	-	-	SLIDERS
FAN ASSISTED CONVECTION COOLING	YES	YES	YES
WATCHDOG TIMER	YES	YES	YES
RACK MOUNTING	Optional	Optional	Optional
WALL MOUNTING	Optional	Optional	Optional
TRUSS MOUNTING	YES	YES	YES
HEAVY DUTY HANDLE	YES	YES	YES
230/ 400V-3/N/PE/50Hz,3 PHASE STAR CON/TION	YES	YES	YES
230V 3/PE/50Hz,3 PHASE DELTA CONNECTION	Optional	Optional	Optional
DIMENSIONS (WxHxD) IN MM	432 x 177 x 300		

*Delta version dimmers available upon request.

APOLLO 616S CEE

APOLLO 616C CEE 05130

APOLLO 616C SCH 05130

APOLLO 615S GBS 05230

APOLLO 616S SCH 05230
APOLLO 616S FRS 05230

REAR SIDE OF APOLLO 616

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ORDERING INFORMATION FOR APOLLO & APOLLO PLUS SERIES PORTABLE DIMMER PACKS

OUTPUT SOCKETS/CH.	POWER SUPPLY		APOLLO						APOLLO PLUS										
																			363C
			615C		616S/615S		616C		616S		616C/615C		716S		716C		625C		350C
			50µs	100µs	50µs	100µs	50µs	100µs	50µs	100µs	50µs	100µs	50µs	100µs	50µs	100µs	100µs	200µs	200µs
ONE SCHUKO	SCREW TERMINAL	SCH					05120	10120			05120	10120							
	CEE - 17						05130	10130			05130	10130	05130	10130					
TWO SCHUKO	SCREW TERMINAL	SCH			05220	10220			05220	10220									
	CEE - 17 (5X32A)				05230	10230			05230	10230									
ONE CEE - 17 (3x16A)	SCREW TERMINAL	CEE					05120	10120			05120	10120							
	CEE - 17						05130	10130			05130	10130	05130	10130					
TWO CEE - 17 (3x16A)	SCREW TERMINAL	CEE			05220	10220			05220	10220									
	CEE - 17				05230	10230			05230	10230									
ONE CEE-17 (3x32A)	SCREW TERMINAL	CEE															10130	20130	
	CEE - 17																		
ONE CEE-17 (3X63A)	SCREW TERMINAL	CEE																	20130
	CEE - 17																		
ONE GB15A	SCREW TERMINAL	GBS	05120	10120					05120	10120									
	CEE - 17		05130	10130					05130	10130									
TWO GB15A	SCREW TERMINAL	GBS			05220	10220					05220	10220							
	CEE - 17				05230	10230					05230	10230							
ONE FRENCH	SCREW TERMINAL	FRS					05120	10120			05120	10120							
	CEE - 17						05130	10130			05130	10130	05130	10130					
TWO FRENCH	SCREW TERMINAL	FRS			05220	10220			05220	10220									
	CEE - 17				05230	10230			05230	10230									
ONE POWER CON	SCREW TERMINAL	POC																	
	CEE - 17														05130	10130			
TWO POWER CON	SCREW TERMINAL	POC																	
	CEE - 17																		
ONE SOCAPEX	SCREW TERMINAL	SCP																	
	CEE - 17														05130	10130			
TWO SOCAPEX	SCREW TERMINAL	SCP			05220	10220	05220	10220	05220	10220	05220	10220							
	CEE - 17				05230	05230	05230	10230	05230	10230	05230	10230	05230	10230					
ONE 16POLE x 16A (HARTING)	SCREW TERMINAL	HRT																	
	CEE - 17														05130	10130			
TWO 16POLE x16A (HARTING)	SCREW TERMINAL	HRT			05220	05220	05220	10220	05220	10220	05220	10220							
	CEE - 17				05230	05230	05230	10230	05230	10230	05230	10230							

GUIDING ORDERING INFORMATION

APOLLO PLUS 6 16 S SCH 05 2 3 0

- ***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) S models are supplied with heavy duty fuse holders and C models are supplied with circuit breakers).*
- *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.

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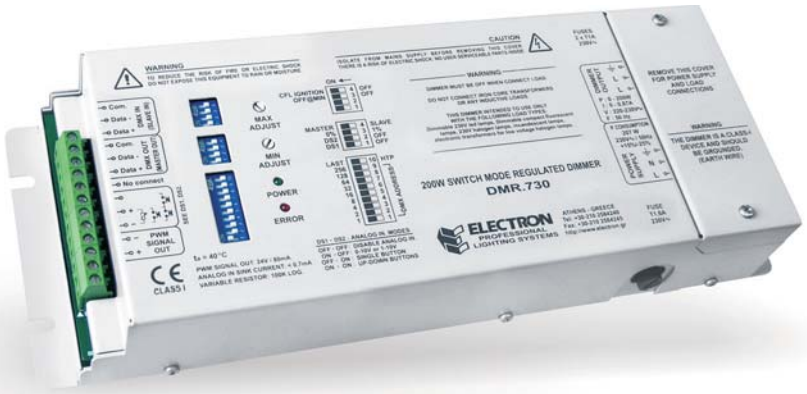
DMR.730 TRAILING EDGE DIMMER



Designed & Manufactured
by ELECTRON SA

Switch Mode Regulated Dimming SMRD technology

DMR.730
FLICKER FREE TRAILING EDGE DIMMER
Unaffected from mains fluctuations

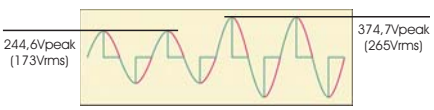
Specially designed for dimmable 230VAC LED lamps.	**The only dimmer which achieves stable output voltage, unaffected from mains fluctuations.**	**Output remains stable even at 230VAC, in power supply voltage range from 173VAC to 265VAC.**

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.

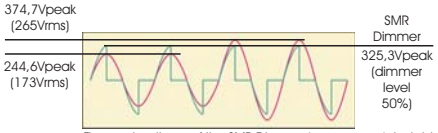
The new SMRD (Switch Mode Regulated Dimmer) technology monitors the mains voltage and stabilizes the output voltage so that this remains stable and unaffected from the network's fluctuations, thus results in the stability of the lamp(s) brightness.

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 irrespectively of the mains peak voltage (red curve). The amplitude of the mains' fluctuation could be from 173V to 265V.

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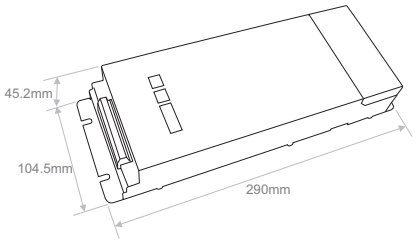
True output regulation

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) luminosity regulation is depended 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.

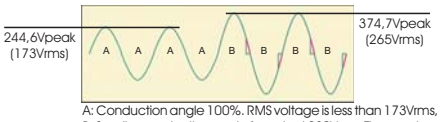
SMR technology maintains the output voltage stable with no need of higher mains voltage and without changing the conduction angle. This means that even if the dimmer is at 100%, the output remains at full (230V) in power supply voltage range from 173V to 265V.

SMR technology

DMR.730
TRAILING EDGE DIMMER

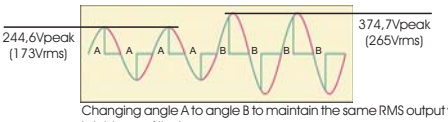


Failure of RMS output voltage stabilization, by changing the conduction angle, when the dimmer is at full (100%).



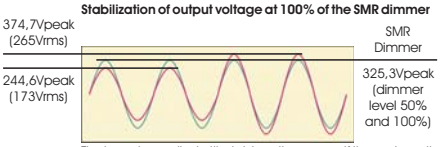
A: Conduction angle 100%. RMS voltage is less than 173Vrms, not 230Vrms.
B: Smaller conduction angle for output 230Vrms. The supply voltage must be higher than 230Vrms.

Stabilization of RMS output voltage by changing the conduction angle.



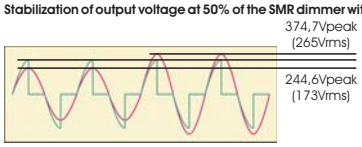
Changing angle A to angle B to maintain the same RMS output voltage, results in changing the brightness of the lamp.

Stabilization of output voltage at 100% of the SMR dimmer



The lamp is supplied with stable voltage even if the mains voltage drops at 173V.

Stabilization of output voltage at 50% of the SMR dimmer without changing the conduction angle



The lamp is supplied with stable voltage and stable conduction angle.

More features of the SMR Dimmer:

Power Factor

LED lamps but also CFLs (Compact Fluorescent Lamps) are usually loads with low power factor (cosθ=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 1sec automatically, in case we need to turn on the lamps at percentages less than 50%.

Control inputs

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 100Klog, 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.

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DMR.731 TRAILING EDGE DIMMER

Designed & Manufactured
by ELECTRON SA

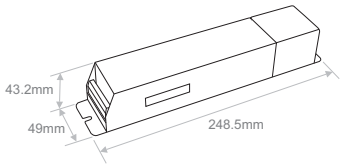
DMR.731
FLICKER FREE TRAILING EDGE DIMMER

Economic solution for controlling:

- **Dimmable LEDs 230V.**
- **Dimmable CFLs .**
- **Trailing edge dimmable Electronic Transformers.**

- Handles great inrush currents.
- Lamps connected up to 350W.
- Diming 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 100Klog, button, UP/DOWN button).
- PWM signal output can drive ELECTRON SA constant voltage and constant current converters.

Output power 350W
Controlled by IGBT



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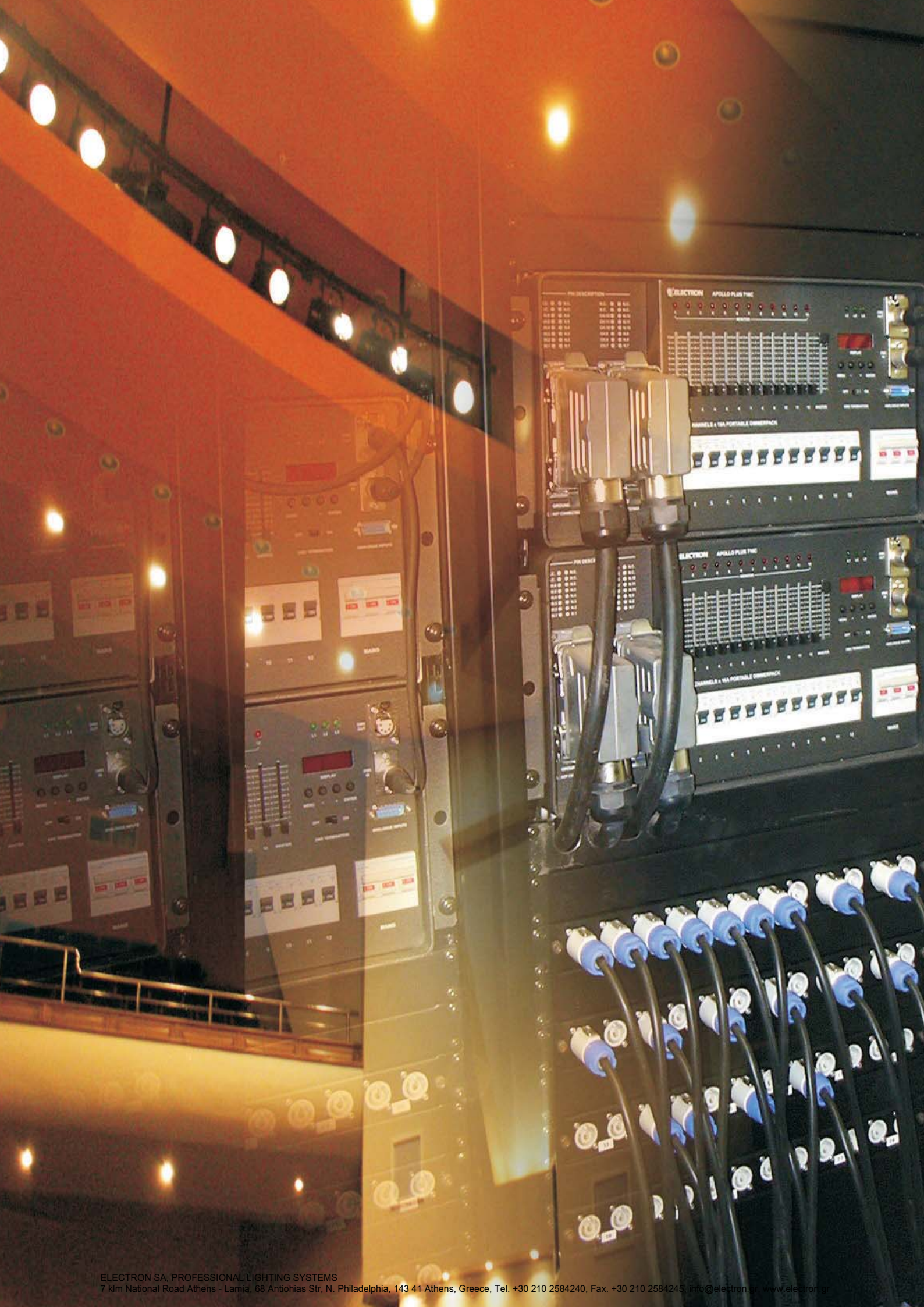

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MICON SERIES

Designed & Manufactured
by ELECTRON SA

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 by any simple slider / potentiometer or conventional up / down push buttons 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 x1,1. 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.

Code	Supply voltage	Switched outputs	Control outputs	Output protection	Fade times	Control input	On-board Control	Power Monitor	Output Monitor	Dimensions in mm (WxHxD)
MICON F106	230V 50HZ single phase	One rated at 6A (1380W)	One 1/+10V sink current	6A MCB	0.1 to 60sec.	Easynet 0/+10V	With two push buttons (UP-DOWN)	With one LED	With one LED	152x190x63
MICON F110	230V 50HZ single phase	One rated at 10A (2300W)	One 1/+10V sink current	10A MCB	0.1 to 60sec.	Easynet 0/+10V	With two push buttons (UP-DOWN)	With one LED	With one LED	152x190x63
MICON F116	230V 50HZ single phase	One rated at 16A (3680W)	One 1/+10V sink current	16A MCB	0.1 to 60sec.	Easynet 0/+10V	With two push buttons (UP-DOWN)	With one LED	With one LED	152x190x63
MICON F206	230V 50HZ single phase	Two rated at 6A (1380W) each	Two 1/+10V sink current	6A MCB	0.1 to 60sec.	Easynet 0/+10V	With two push buttons (UP-DOWN) per channel	With one LED	With one LED per channel	267x245x85
MICON F210	230V 50HZ single phase	Two rated at 10A (2300W) each	Two 1/+10V sink current	10A MCB	0.1 to 60sec.	Easynet 0/+10V	With two push buttons (UP-DOWN) per channel	With one LED	With one LED per channel	267x245x85
MICON F306	230V 50HZ single phase	Three rated at 6A (1380W) each	Three 1/+10V sink current	6A MCB	0.1 to 60sec.	Easynet 0/+10V	With two push buttons (UP-DOWN) per channel	With one LED	With one LED per channel	267x245x85
MICON F310	230V 50HZ single phase	Three rated at 10A (2300W) each	Three 1/+10V sink current	10A MCB	0.1 to 60sec.	Easynet 0/+10V	With two push buttons (UP-DOWN) per channel	With one LED	With one LED per channel	267x245x85
MICON F306T	230V 50HZ three phases & neutral	Three rated at 6A (1380W) each	Three 1/+10V sink current	6A MCB	0.1 to 60sec.	Easynet 0/+10V	With two push buttons (UP-DOWN) per channel	With one LED	With one LED per channel	267x245x85
MICON F310T	230V 50HZ three phases & neutral	Three rated at 10A (2300W) each	Three 1/+10V sink current	10A MCB	0.1 to 60sec.	Easynet 0/+10V	With two push buttons (UP-DOWN) per channel	With one LED	With one LED per channel	267x245x85
MICON F606T	230V 50HZ three phases & neutral	Six rated at 6A (1380W) each	Six 1/+10V sink current	6A MCB	0.1 to 60sec.	Easynet 0/+10V	With two push buttons (UP-DOWN) per channel	With one LED	With one LED per channel	267x355x85
MICON F610T	230V 50HZ three phases & neutral	Six rated at 10A (2300W) each	Six 1/+10V sink current	10A MCB	0.1 to 60sec.	Easynet 0/+10V	With two push buttons (UP-DOWN) per channel	With one LED	With one LED per channel	267x355x85

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ORDERING INFORMATION EXAMPLE FOR MICON CONTROLLER AND CONTROLLERS

F: FLUORESCENT CONTROLLER
D: CONVENTIONAL DIMMER

MICON F 306 T

THREE PHASE DIMMERS AND CONTROLLERS (when available)

NUMBER OF CHANNELS
1 for one channel
2 for two channels
3 for three channels
6 for six channels

MAXIMUM OUTPUT CURRENT PER CHANNEL

06 for 6A	20 for 20A
10 for 10A	25 for 25A
16 for 16A	32 for 32A

Designed & Manufactured by ELECTRON SA

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 1sec. 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.

Code	Supply voltage	Dimmers outputs	Output protection	Fade times	Control input	On-board Control	Power Monitor	Output Monitor	Dimensions in mm (WxHxD)
MICON D106	230V 50HZ single phase	One channel at 6A (1380W)	6A MCB	0.1 to 60sec.	Easynet 0/+10V	With two push buttons (UP-DOWN)	With one LED	With one LED	152x190x63
MICON D110	230V 50HZ single phase	One channel at 10A (2300W)	10A MCB	0.1 to 60sec.	Easynet 0/+10V	With two push buttons (UP-DOWN)	With one LED	With one LED	152x190x63
MICON D116	230V 50HZ single phase	One channel at 16A (3680W)	16A MCB	0.1 to 60sec.	Easynet 0/+10V	With two push buttons (UP-DOWN)	With one LED	With one LED	267x245x85
MICON D120	230V 50HZ single phase	One channel at 20A (4600W) each	20A MCB	0.1 to 60sec.	Easynet 0/+10V	With two push buttons (UP-DOWN)	With one LED	With one LED	267x245x85
MICON D125	230V 50HZ single phase	One channel at 25A (5750W) each	25A MCB	0.1 to 60sec.	Easynet 0/+10V	With two push buttons (UP-DOWN)	With one LED	With one LED	267x245x85
MICON D132	230V 50HZ single phase	One channel at 32A (7360W) each	32A MCB	0.1 to 60sec.	Easynet 0/+10V	With two push buttons (UP-DOWN)	With one LED	With one LED	267x245x85
MICON D206	230V 50HZ single phase	Two channels rated at 6A (1380W) each	2x6A MCBs	0.1 to 60sec.	Easynet 0/+10V	With two push buttons (UP-DOWN) per channel	With one LED	With one LED per channel	267x245x85
MICON D210	230V 50HZ single phase	Two channels rated at 10A (2300W) each	2x10A MCBs	0.1 to 60sec.	Easynet 0/+10V	With two push buttons (UP-DOWN) per channel	With one LED	With one LED per channel	267x245x85
MICON D306	230V 50HZ single phase	Three channels rated at 6A (1380W) each	3x6A MCBs	0.1 to 60sec.	Easynet 0/+10V	With two push buttons (UP-DOWN) per channel	With one LED	With one LED per channel	267x245x85
MICON D310	230V 50HZ single phase	Three channels rated at 10A (2300W) each	3x10A MCBs	0.1 to 60sec.	Easynet 0/+10V	With two push buttons (UP-DOWN) per channel	With one LED	With one LED per channel	267x245x85
MICON D306T	230V 50HZ three phases & neutral	Three channels rated at 6A (1380W) each	3x6A MCBs	0.1 to 60sec.	Easynet 0/+10V	With two push buttons (UP-DOWN) per channel	With one LED	With one LED per channel	267x245x85
MICON D310T	230V 50HZ three phases & neutral	Three channels rated at 10A (2300W) each	3x10A MCBs	0.1 to 60sec.	Easynet 0/+10V	With two push buttons (UP-DOWN) per channel	With one LED	With one LED per channel	267x245x85
MICON D606T	230V 50HZ three phases & neutral	Six channels rated at 6A (1380W) each	6x6A MCBs	0.1 to 60sec.	Easynet 0/+10V	With two push buttons (UP-DOWN) per channel	With one LED	With one LED per channel	267x355x85
MICON D610T	230V 50HZ three phases & neutral	Six channels rated at 10A (2300W) each	6x10A MCBs	0.1 to 60sec.	Easynet 0/+10V	With two push buttons (UP-DOWN) per channel	With one LED	With one LED per channel	267x355x85

MICON D106 MICON D110 MICON D116 MICON D120 MICON D125 MICON D132 MICON D206 MICON D210 MICON D306 MICON D310 MICON D306T MICON D310T MICON D606T MICON D610T

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MICON CONTROL PANELS

Designed & Manufactured
by ELECTRON SA

MICON CONTROL PANELS B & E SERIES

The MICON B and E series of control panels are used to control the MICON Dimmers and Fluorescent Controllers. The MICON 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 MICON BB series of push buttons is possible. The MICON 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 MICON 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 MICON CONTROL PANELS

E: ELECTRONIC CONTROL
B: BASE CONTROL

MICON B S 3 M

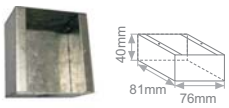
MASTER CONTROL (when available)

S: CONTROL WITH SLIDERS
L: LEVEL CONTROL PANEL (OFF-LEVEL A-LEVEL B-FULL)
B: UP/DOWN CONTROL (PUSH BUTTONS)

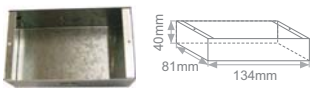
NUMBER OF OUTPUTS
1: ONE OUTPUT
2: TWO OUTPUTS
3: THREE OUTPUTS
6: SIX OUTPUTS

WALL BOXES

1 GANG metal box



2 GANG metal box



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 MICON and PREMIUM dimmer series.

MICON B SERIES
BASE ECO CONTROL PANELS

MICON BS 1

Control with one slider

MICON BB 1

One output UP/DOWN Control

MICON BS 2

Control with two sliders

MICON BB 2

Two outputs UP/DOWN Control

MICON BS 3

Control with three sliders

MICON BB 3

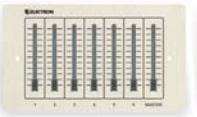
Three outputs UP/DOWN Control

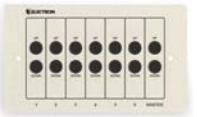
MICON BS 3M

Control with three sliders and Master

MICON BB 3M

Three outputs UP/DOWN Control and Master

MICON BS 6M

Control with six sliders and Master

MICON BB 6M

Six outputs UP/DOWN Control and Master

MICON E SERIES
ELECTRONIC EASYNET CONTROL PANELS

MICON ES 1

Electronic control with one slider

MICON EB 1

One output electronic Up/Down Control

MICON EL 1

One output programmable Level Control OFF-Level A- Level B-Full

MICON ES 3M

Electronic control with three sliders and Master

MICON EB 3M

Three outputs electronic Up/Down Control and Master

MICON EL 3M

Three outputs programmable Level Control OFF-Level A- Level B-Full and Master

MICON ES 2

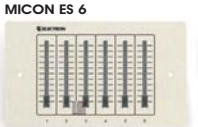
Electronic control with two sliders

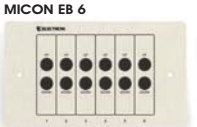
MICON EB 2

Two outputs electronic Up/Down Control

MICON EL 2

Two outputs programmable Level Control OFF-Level A- Level B-Full

MICON ES 6

Electronic control with six sliders

MICON EB 6

Six outputs electronic Up/Down Control

MICON EL 6

Six outputs programmable Level Control OFF-Level A- Level B-Full

MICON ES 3

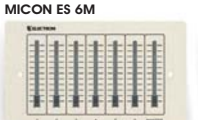
Electronic control with three sliders

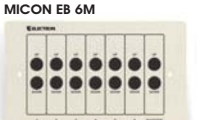
MICON EB 3

Three outputs electronic Up/Down Control

MICON EL 3

Three outputs programmable Level Control OFF-Level A- Level B-Full

MICON ES 6M

Electronic control with six sliders and Master

MICON EB 6M

Six outputs electronic Up/Down Control and Master

MICON EL 6M

Six outputs programmable Level Control OFF-Level A- Level B-Full and Master

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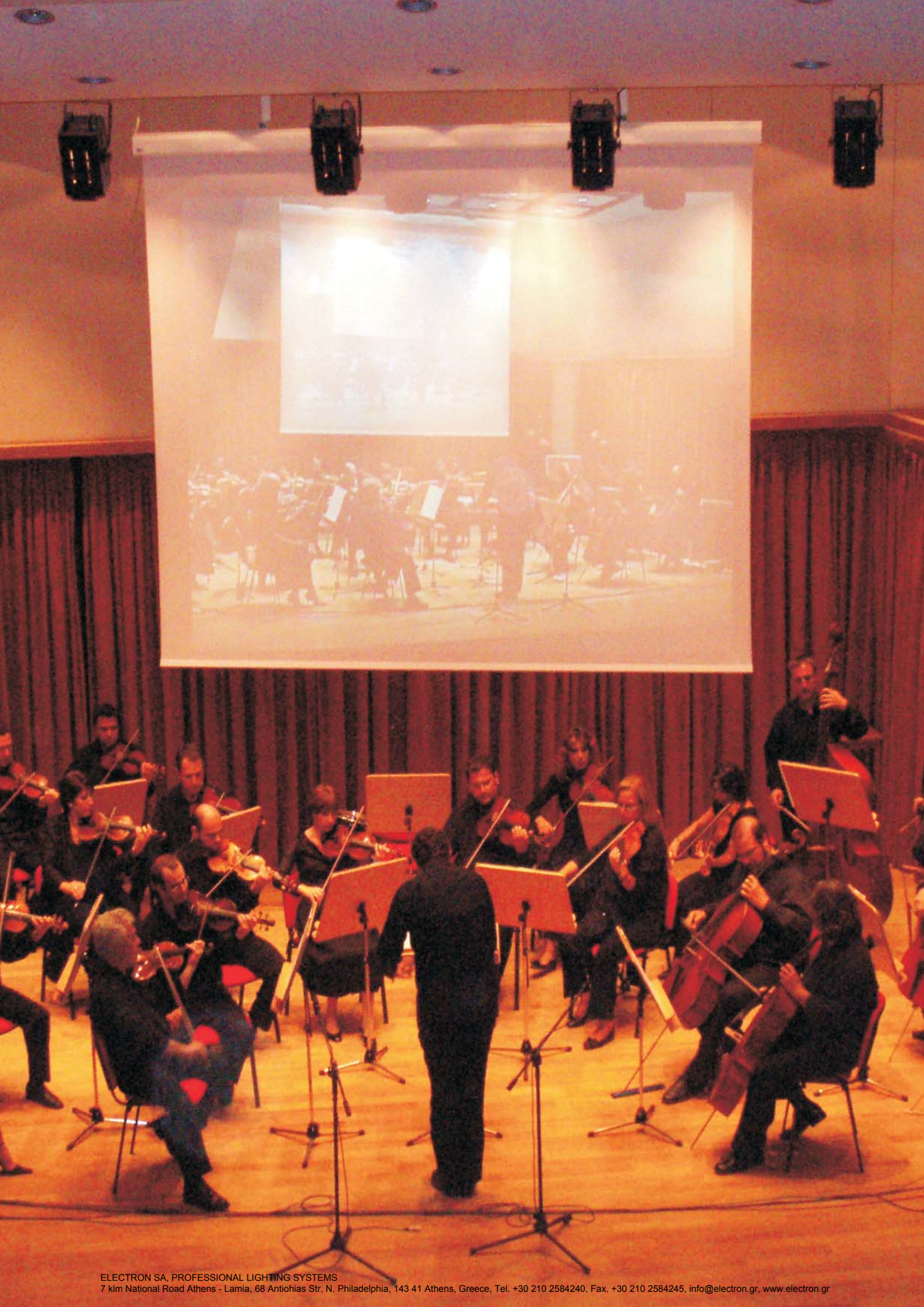

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TEMPO 12
CONTROL DESKS

Designed & Manufactured
by ELECTRON SA

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.

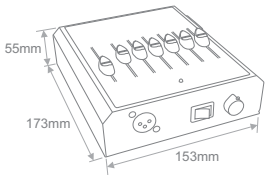
CDS.219
CONTROL DESKS

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.

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SCENE SETTER 24 & 48

SCENE SETTER 24
24 DMX CHANNELS LIGHT CONTROLLER

Model	Code	No. of channels	Input Voltage	Dimensions	Weight
SCENE SETTER 24	**CDS.005**	24	12-18VDC (500mA)	482x264x85mm	4.8kg

SCENE SETTER 48
48 DMX CHANNELS LIGHT CONTROLLER

Model	Code	No. of channels	Input Voltage	Dimensions	Weight
SCENE SETTER 48	**CDS.004**	48	12-20VDC (500mA)	710x270x75mm	7.5kg

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	SCENE SETTER 48	
24	48	: DMX Control Channels.
48	96	: Recordable memories for static scenes chaser programs with 4500 total steps.
12-18VDC	12-20VDC	: Power input (power pack included 230VAC/50-60Hz).

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SWEETLIGHT CONTROLLER

DMX SOFTWARE LIGHTING CONTROLLERS

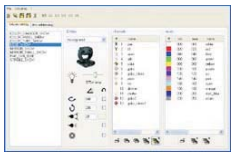
SWEETLIGHT CONTROLLER

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 light, 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.

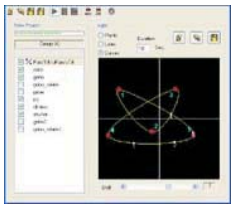
The software is designed to be very user-friendly and can easily be used by even those whose knowledge of computers is limited. We propose a unique software, which is free for download from our web site. The software is available for Windows and MacOS. Until now, all software upgrades are free.
We propose 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).
This 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
. trychromie
. time and fade mode
. fixtures grouping
The screen looks similar to a "regular lighting desk", with advanced functions like copy, paste, insert, ...

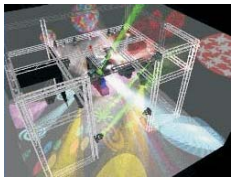


In Generator, in a few mouse clicks, build complex lighting scenes, with pan&tilt movements and color (gobo) effects, for a group of moving lights, with fanning effect.

With Live, play the show in live. Live is customizable, depending of 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, giff. The readable video files are avi, mpg, mpeg, mov, wmv.



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.

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SWEETLIGHT CONTROLLER

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 a 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.

only for Windows

Code
CSF.001

- 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.

Code
CSF.002

- 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.

Code
CSF.003

- 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.
- USB link with computer.
- DMX output for lighting equipment.
- 2.5 jack socket for external power unit.
- External/internal 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.

Code
CSF.004

- 19" rack mount one unit height.
- LEDs for power, computer link, dmx input, flash buttons.
- xlr 3 pins for dmx 512 output with optical isolation.
- xlr 3 pins male for dmx input.
- 2.5mm jack socket for external power adaptor (9-12V 300mA).
- Switch to select external / internal power.
- Supplied with usb line and power adaptor.

Code
CSF.005

- Metal casing.
- LEDs for power and ethernet link.
- Ethernet socket for computer link.
- xlr 3 pins for dmx 512 output with optical isolation.
- 2.5 jack socket for external power adaptor.
- Supplied with ethernet line and power adaptor.

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ARLIC

Architectural Lighting Management System

Designed & Manufactured
by ELECTRON SA

ARLIC architectural lighting system capable of managing the lighting needs of medium and multi purpose venues, but also flexible enough to cover the needs of a smaller space where the cost of installation is crucial, yet providing the features of a large system.

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.

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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 senarios 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


ARS.013 WHITE


ARS.013 BLACK


ARS.023 WHITE

ARS.013
Control panel and controller with **6** scenarios and DMX output.

ARS.014
Control panel and controller with **6** scenarios,
infrared receiver and DMX output.

ARS.023
Wall mounted control panel and controller with **6** scenarios and DMX output.

ARS.024
Wall mounted control panel and controller with **6** scenarios,
infrared receiver and DMX output.


ARS.015 WHITE


ARS.015 BLACK

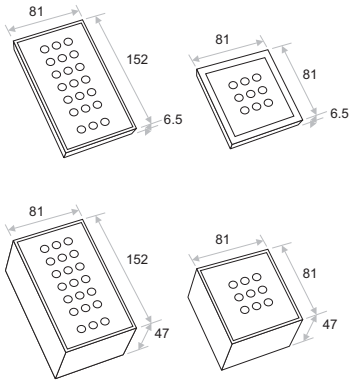

ARS.025 WHITE

ARS.015
Control panel and controller with **18** scenarios and DMX output.

ARS.016
Control panel and controller with **18** scenarios,
infrared receiver and DMX output.

ARS.025
Wall mounted control panel and controller with **18** scenarios and DMX output.

ARS.026
Wall mounted control panel and controller with **18** scenarios,
infrared receiver and DMX output.



ARLIC system:
Advanced lighting control system. ■
Perfect lighting solutions. ■
User friendly. ■

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CONTROL PANELS OF 6 & 18 SCENARIOS FOR ARLIC

Designed & Manufactured
by ELECTRON SA

- 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.
- ARLICnet port.
- Variety of colours.


ARS.009 WHITE


ARS.009 BLACK


ARS.027 WHITE

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 WHITE


ARS.011 BLACK


ARS.029 WHITE

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.

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ARLIC Accessories

Designed & Manufactured
by ELECTRON SA

Analogue 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

ARS.017
1-10V electronic rheostat

ARS.018
Wall motion detector

ARS.019
Ceiling motion detector

ARS.020
Presence detector

ARS.021
RJ45 ARLIC net socket

ARS.022
Wall mounted
RJ45 ARLIC net socket

ARS.003
ARLICnet repeater

ARC.004
Recessed wall box for
1 gang control panels.
Supplied for the control
panels if needed.

ARC.005
Recessed wall box for
2 gang control panels.
Supplied for the control
panels if needed.

ARC.006
Plasterboard box for
1 gang control panels.
Supplied for the control
panels if needed.

ARC.007
Plasterboard box for
2 gang control panels.
Supplied for the control
panels if needed.

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DMX SPLITTER SP142

Designed & Manufactured
by ELECTRON SA

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

SP142-5pin (DEM.002)

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

SP142-3pin (DEM.003)

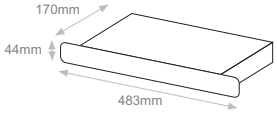
DEM.003

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

SP142-RJ45 (DEM.014)

DEM.014

- RJ-45 IN and THROUGH
- 6 isolated and buffered outputs on RJ-45 (2 of them with reverse polarity buttons)



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DMX MERGER SPLITTER

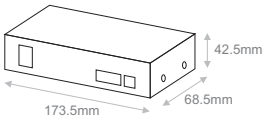
Designed & Manufactured by ELECTRON SA

■ 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 / +50oC.
· Dimensions L x W x H: 173,5mm x 68,5mm x 42,5mm.



DMX REPEATER

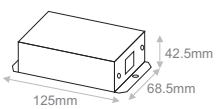
Designed & Manufactured by ELECTRON SA

■ 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 / +50oC.
· 0,5-2,5mm^2 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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