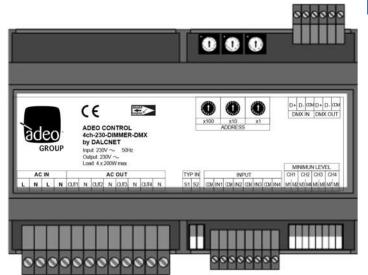


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Adeo Control 4ch-230-DIMMER-DMX **Device Manual**





FEATURES

- AC DIMMER + FADER
- AC Input 230Vac
- Command:
- N.O. Push Button
- Analog Signal 0/1-10V and Potentiometer
- BUS Command: DMX
- Output channel for R-C loads
- Adjustable the brightness of white light
- Four channel dimmer output phase-cut (trailing edge) for LED
- Lamp dimmable and Halogen Lamp dimmable.
- Typical Efficiency > 95%
- Minimum value of dimming adjustable
- Soft Start and Soft Stop
- Optimized output curve
- Memory function
- 100% Functional Test
- 5 Years warranty

Applications •

L'AC Dimmer is a single channel dimmer output phase-cut and adjusting the brightness of dimmable LED Lamp dimmable halogen lamp and AC phase-cut power supply.

• Variant: Dimmer at phase-cut

CODE	Supply Voltage	Output	Channel	Local Command	Bus Command
4CH-230-DIMMER-DMX	230Vac	4 x 200W/ch max	4	N° 4 N.O. Push Button	DMX

Reference standard .

Code	Description
EN 61347-1	Lamp controlgear - Part 1: General and safety requirements
EN 55015	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment
EN 61000-3-2	Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)
EN 61000-3-3 Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage flu flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase a conditional connection	
EN 61547	Equipment for general lighting purposes - EMC immunity requirements



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Technical specifications •

		230 Vac	: Variant	
	Nominal Voltage	230 Vac		
	Voltage Range	210240 Vac		
INPUT	Mains Frequency	50	DHz	
-	Efficiency at full load	>9	95%	
-	Power loss in stand by mode @230Vac	<50	0mW	
	Nominal Output Voltage	210?	240 Vac	
	Nominal Output Current	max 0	.8 A/ch	
OUTPUT	Type of Load	R	+C	
-	Nominal Power ¹⁾	1 Canale	4 Canali	
	Nominal Power *	200 W/ch	800W tot	
	Dimming Resolution	16bit		
DIMMING	Dimming Method	Trailing Edge		
	Dimming Range	0 - 1	00 % ²⁾	
-	Storage Temperature	min: -40 max: +60 °C		
_	Ambient Temperature ¹⁾	min: -10 max: +40 °C		
	Protection Grade	IP20		
	Wiring	2.5mm ² solid - 2.5mm ² stranded - 30/12 AWG		
ENVIRONMENTAL	Wire preparation length	6 mm		
	Mechanical Dimension	143 x 91 x 62 mm – DIN RAIL 8M		
	Packaging Dimension	156 x 12	4 x 71 mm	
	Casing material	Pla	stica	
	Product Weight	2:	10g	

¹⁾ Maximum value, dependent on ventilation conditions
 ²⁾ It depends on the type of lamp connected
 ⁴⁾ At full load



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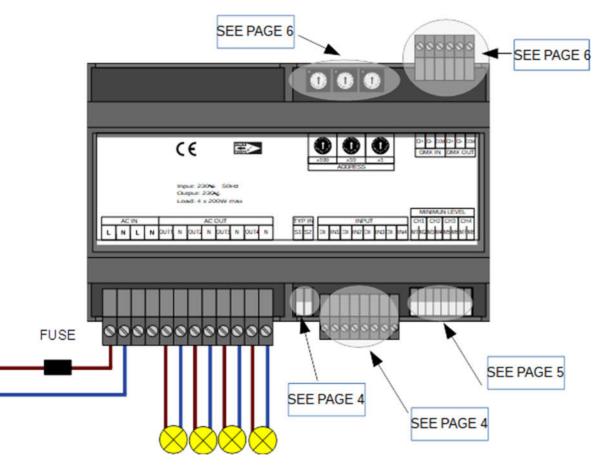
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Installation

As shown in the scheme below, proceed as follows to install the product:.

- 1) Installation and maintenance must be performed only by qualified personnel in compliance with current regulations.
- 2) Isolate the mains supply before the installation or adjusting the switches. The external supply must be protected. The product must be protected by fuse and /or by a Circuit Breaker with overcurrent protection correctly dimensioned.
- 3) Connect the Lamp Load to the "AC OUT" terminal blocks.
- 4) Connect the local command of the terminal blocks "INPUT" or the Bus command of the terminal block "BUS IN" and/or "BUS OUT".
- 5) Connect a Fuse into "Line" cable. The fuse must be correctly dimensioned. Connect the cable of supply mains to "AC IN" terminal blocks.



Technical Note

Installation:

- Isolate the mains supply before the installation or adjusting the switches. Installation and maintenance must be performed in the absence of AC Voltage.
- Installation and maintenance must be performed only by qualified personnel in compliance with current regulations.
- The product must be installed inside an electrical cabinet protected against overvoltages.
- The external supply must be protected. The product must be protected from Fuse and/or Circuit Breaker with overcurrent protection correctly dimensioned.
- The product must be installed only in a vertical or horizontal position with the cover / label pointing upwards or vertically; No other positions are allowed.
- Botton-up positive is not permitted (downward label).
- The use of the product in harsh environments could limit the output power.
- Keep the circuits at 230V (LV) and the no SELV circuits separated from extra low voltage circuits (SELV)

Commands and Outputs:

• The connecting cables length between the local commands (N.O. Push button or other) and the product must be less than 25m; the cables must be dimensioned correctly.

• The connecting cables length between the product and the LED modules must be less than 25m; the cables must be dimensioned correctly.



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Local input type

In Type	Description	Connections	Settings
Push	N.O. Pushbutton, with memory	[추] [추] [추] N1 оү N2 оү N3 оү N4 оү N	S152
	N.O. Pushbutton, NO MEMORY	เกา 101 0∨ 1020∨ 103 0∨ 104 0∨ 10	5152
0-10V	Analogic 0-10V		5152
1-10V	Analogic 1-10V & Potentiometer		S1S2

Setting the minimum value of dimming •

Function	M1 M2 M3 M4 M5 M6 M7 M8 Min of Dim Min of Dim Min of Dim CH 1 CH 2 CH 3 CH 4	 Switches from 1 to 2: Minimum of dimming, channel 1 Switches from 3 to 4: Minimum of dimming, channel 2 Switches from 5 to 6: Minimum of dimming, channel 3 Switches from 7 to 8: Minimum of dimming, channel 4 	
Canale1 – Channal 1		Canale 2 – Channel 2	
Minimum of Dimming M1 M2 Dimming	Minimum of Dimming M1 M2 Dimming M1 M2	Minimum of Dimming M3 M4 Minimum M3 M4 Dimming M3 M4 Minimum M3 M4 Minimum M3 M4 Dimming M3 M4	

Canale3 – Channal 3					Canale 4	– Chann	el 4				1				
Minimum of Dimming 0%	M5 M6	Minimum of Dimming 5%	M5 M6	Minimum of Dimming 10%	M5 M6	Minimum of Dimming 20%	M5 M6	Minimum of Dimming 0%		Minimum of Dimming 5%	M7 M8	Minimum of Dimming 10%	M7 M8	Minimum of Dimming 20%	M7 M8

PUSH DIMMER FEATURE •

The intensity and the status change (ON/OFF) are controlled by the N.O. push button.

N.O. Push Button Command

Click	On/Off
Double Click	Maximum intensity
Long pressure (>1s) from ON	Dimmer up/down
Long pressure (>1s) from OFF	Turn ON at 1% (Nightly Time), then dimmer up/down

0-10V / 1-10V Command

0÷10V	Dimmer: 0-1V=0% 10V=100%				
1÷10V					
Potentiometer					



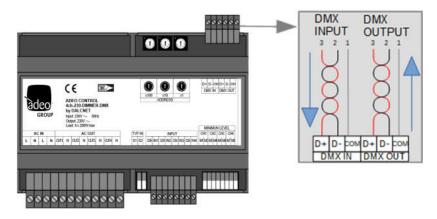
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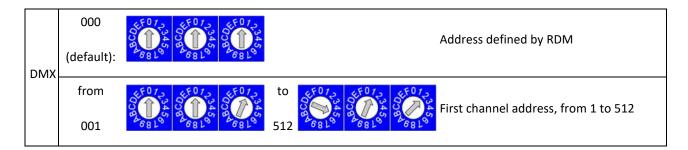


• DMX+RDM bus setup

With the **DMX+RDM BUS SETUP** in the "slave" condition the output are manages by an external DMX controller. In the "master" condition, the DMX+RDM allows the communications between devices.



• Addressing



• Onboard led:

In the case of bus error, the led blinks fast (2 pulsed per second). In the case of no bus detected, led blinks slow (1 pulse per second). In the case of data link active, the led stands on.

• Relation with local commands

At power-up, in case of absence of connection to the BUS, local control is active. When the BUS is detected, the control passes to the BUS. It remains to the BUS until there is signal.

In the absence of signal:

- if the local command is N.O. PUSH BUTTON, the control passes to local command in the event of a N.O. push button pressure.

- if the local command is 0-10V or 1-10V the control passes immediately to the local command.



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• CHANNELS MAP – DMX512

Load	pad Type: White - up to 4 loads						
Ch.	Function	Map: Dimmer					
1	Dimmer 1	0255					
2	Dimmer 2	0 255					
3	Dimmer 3	0255					
4	Dimmer 4	0255					

RDM COMMAND

PARAMETRI NECESSARI	PARAMETRI SUPPORTATI
DISC_UNIQUE_BRANCH	PRODUCT_DETAIL_ID_LIST
DISC_MUTE	DEVICE_MODEL_DESCRIPTION
DISC_UN_MUTE	MANUFACTURER_LABEL
SUPPORTED_PARAMETERS	DEVICE_LABEL
PARAMETER_DESCRIPTION	BOOT_SOFTWARE_VERSION_ID
DEVICE_INFO	BOOT_SOFTWARE_VERSION_LABEL
SOFTWARE_VERSION_LABEL	DMX_PERSONALITY
DMX_START_ADDRESS	DMX_PERSONALITY_DESCRIPTION
IDENTIFY_DEVICE	SLOT_INFO
	SLOT_DESCRIPTION
	DEFAULT_SLOT_VALUE