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FEATURES

- CONVERTER+CASAMBI+BUS
- DC Input: 12-24-48 Vdc
- Command: APP CASAMBI
- Local Command Programmable from APP CASAMBI:
 - Normally Open Push Button
- DGD Casambi id converter from Casambi signal to DALI or DMX protocol
- Possibility to control devices with protocol DALI or DMX by CASAMBI APP
- Extended temperature range
- 100% Functional test 5 Years warranty

→ For the whole and update *Device Manual* refer to producer's website: http://www.dalcnet.com

PRODUCT CODE

CODE	Input Voltage	Channel	Input Command	Output Command	Type of Command	
DGD-CBM-DALI(*)	12-48V DC	1	APP CASAMBI	DALI	N° 1 N.O. Push Button	CONVERTER
DGD-CBM-DMX	12-48V DC	1	APP CASAMBI	DMX	N° 1 N.O. Push Button	CONVERTER

^(*) Bus DALI power supply is required

The management of address (DALI variant) or of channels (DMX variant) depend on the module Casambi configuration.

The product for the DGD-CBM-DALI version by default exits the factory with the "DGD BROADCAST" profile.

The product for the DGD-CBM-DMX version by default exits the factory with the "DGD WWWW" profile.

PROTECTIONS

OVP	Over voltage protection ¹	✓
UVP	Under voltage protection ¹	✓
RVP	Reverse polarity protection ¹	✓
IFP	Input fuse protection ¹	✓

> TYPE OF PROFILES SELECTABLE FROM CASAMBI APP

Profile DMX	Default	Output addresses/channels	Commands			
	profile					
DGD BROADCAST ²	√ Ver DALI	64	APP CASAMBI – 1 push button	DIM	MER	
DGD WWWW	✓ Ver DMX	4	APP CASAMBI – 1 push button	DIM	MER	
DGD TW		2	APP CASAMBI – 1 push button	BIANCO DINAMICO		
DGD RGB		3	APP CASAMBI – 1 push button	RGB		
DGD RGBW		4	APP CASAMBI – 1 push button	RGB W		
DGD MRGB+S		5	APP CASAMBI – 1 push button	Master	RGB	Strobo
DGD MRGBW+S		6	APP CASAMBI – 1 push button	Master RGB	W	Strobo
DGD Moving MRGBWS ³		8	APP CASAMBI – 1 push button	Profili Teste Mobili DMX		

¹ Only logic control protection

² This profile is implemented to be managed only by the DGD-CBM-DALI – It sends the commands in BROADCAST to manage all 64 DALI addresses simultaneously.

³ This profile is implemented to be managed only by the DGD-CBM-DMX.





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> REFERENCE STANDARDS

EN 61347-1	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 61547	Equipment for general lighting purpose – EMC immunity requirements	

> TECHNICAL SPECIFICATION

			Constan	t Voltage			
Supply Voltage		min: 10,8 Vdc max: 52,8 Vdc					
Nominal Power ⁴		DALI	Variant		DMX Variant		
		Min	Max	Min	Тур	Max	
	@12V	61 mW	115 mW	122 mW	174 mW	261 mW	
	@24V	120 mW	176 mW	182 mW	236 mW	325 mW	
	@48V	230 mW	296 mW	302 mW	365 mW	464 mW	
Power loss in stand by mode		<500mW					
Storage Temperature		min: -40 max: +60 °C					
Ambient Temperature ⁴		min: -10 max: +40 °C					
Protection grade		IP10					
Wiring		2.5mm ² solid – 2.5mm ² stranded – 30/12 AWG					
Wire preparation lenght		5,5 – 6,5 mm					
Mechanical dimensions		92 x 36 x 62 mm DIN RAIL 2M					
Package dimensions		124 x 71 x 48 mm					
Casing material		Plastic					
Weight		88g					

⁴ Maximum value, dependent on the ventilation conditions.



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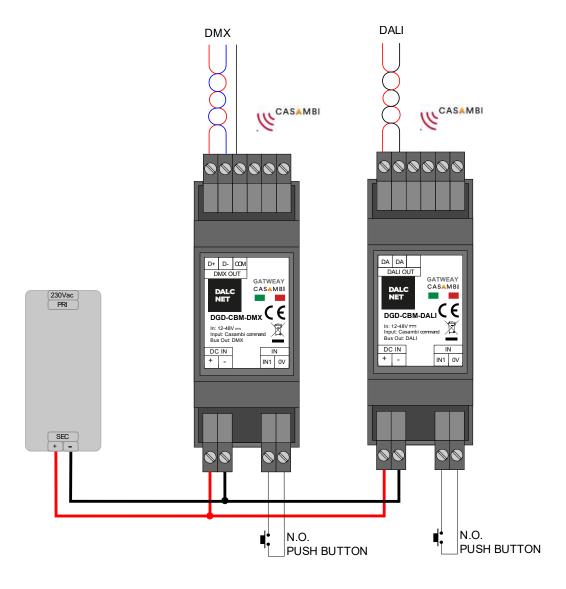
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> INSTALLATION

Follow the drawing below to set the product:

- 1) Connect the BUS in "DALI OUT or DMX OUT" terminal blocks of the device (depending on the DGD variant).
- 2) Optional: connect the local command (N.O. Push Button) to the device terminal blocks "IN".
- 3) Connect the power supply (12-48Vdc) to the device terminal blocks "DC IN".



DGD-CBM-DMX

DGD-CBM-DALI





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> PUSH DIMMER FEATURE

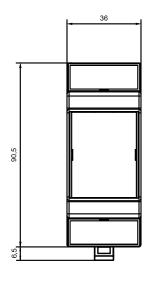
Casambi App allows to program the local command with some present functions.

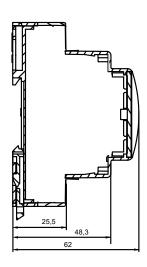
Button	Function (*)				
1	Controls a	Click	Tap to turn a luminaire on or off – hold to adjust		
	luminaire	Long pressure (>1s) from ON	luminaire brightness		
1	Controls an	Click	Tap to turn a device elements on or off – hold to adjust		
	elements	Long pressure (>1s) from ON	the element value		
1	Control	Click	Tap to turn a scene on or off – hold to adjust scene		
	scene	Long pressure (>1s) from ON	brightness		
1	Active /	Click	Tap to switch between two scenes – hold to adjust		
	Standby	Long pressure (>1s) from ON	current scene brightness		
(*) FOR T	(*) FOR THE ALL OTHER FUNCTIONS CHECK CASAMBI APP INSTRUCTION ON WEB-SITE: http://www.casambi.com				

NOTE: N.O. Push Button by default is set in "Controls a luminaire".

Switch on, switch off and output dimming can be managed also by a normally open push button, set by Casambi APP.

MECHANICAL DIMENSIONS (Terminals excluded)







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TECHNICAL NOTE

Installation:

- Installation and maintenance must be performed only by qualified personnel in compliance with current regulations.
- The product must be installed inside an electrical panel protected against overvoltages.
- The product must be installed in a vertical or horizontal position with the cover / label upwards or vertically; Other positions are not permitted. It is not permitted to bottom-up position (with the cover / label down).
- Keep separated the circuits at 230V (LV) and the circuits not SELV from circuits to low voltage (SELV) and from any connection with this product. It is absolutely forbidden to connect, for any reason whatsoever, directly or indirectly, the 230V mains voltage to the bus or to other parts of the circuit.

Power Supply:

- For the power supply use only a SELV power supplies with limited current, short circuit protection and the power must be dimensioned correctly. In case of using power supply with ground terminals, all points of the protective earth (PE = Protection Earth) must be connected to a valid and certified protection earth.
- The connection cables between the power source "low voltage" and the product must be dimensioned correctly and they should be isolated from every wiring or parts at voltage not SELV. Use double insulated cables.
- Dimension the power supply for the load connected to the device. If the power supply is oversized compared with the maximum absorbed current, insert a protection against over-current between the power supply and the device.

Command:

- The length of the connection cables between the local commands (N.O. Push button or other) and the product must be less than 10m; the cables must be dimensioned correctly and they should be isolated from every wiring or parts at voltage not SELV. It is suggested to use double insulated shielded and twisted cables.
- The length and type of the connection cables at the BUS (DMX512, DALI or other) use cables as per specification of the respective protocols and regulations and they should be isolated from every wiring or parts at voltage not SELV. It is suggested to use double insulated shielded and twisted cables.
- All the product and the control signal connect at the bus (DMX512, DALI or other) and at the local command (N.O. Push Button or other) must be SELV (the devices connected must be SELV or supply a SELV signal)

WARNING: For optimal functionality of the Casambi signal, do not put the device into metal or aluminium boxes and do not shield the device.

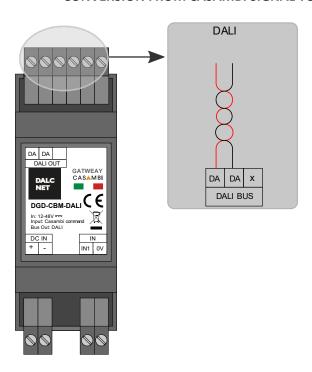


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Device Manual

DGD-CBM-DALI SETUP CONVERSION FROM CASAMBI SIGNAL TO DALI PROTOCOL



Features

The DGD-CBM-DALI is a Casambi-DALI converter.

The device receives the command signal of Casambi APP and transforms the signal in a sequence of DALI addresses, depending on the profile previously set.

To control the conversion addresses Casambi-DALI, check the reference chart "ADDRESSES MAP - DALI" Page 7.

Signal LED:

In case of Casambi command is correctly transmitted to the device, the LED signal stays consistently switched on.

In case of the device is power on, the signal LED slowly flashes (1 pulse per second).

In case of the bus power detected, the signal LED blinks fast (2 pulsed per second).

Relation with local commands:

When the device is switched on, by default, the local command (N.O. push button) is set on "controls a luminaire".

The local command can be set by Casambi APP.

The local command and the command from Casambi APP have the same priority.

NOTE: Bus DALI power supply is required.

When switched on the DGD-CBM-DALI reset the first 10 addresses of the DALI bus.



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ADDRESSES MAP - DALI

Load Type: WHITE - BROADCAST This profile is implemented to be managed only by the DGD-CBM-DALI

Addr	Function	Map: Dimmer
ALL	Dimmer 1	Dimmer (Brightness Value) 0 254

Load Type: WHITE - up to 4 loads

Addr	Function	Map: Dimmer
+0	Dimmer 1	Dimmer (Brightness Value) 0 254
+1	Dimmer 2	Dimmer (Brightness Value) 0 254
+2	Dimmer 3	Dimmer (Brightness Value) 0 254
+3	Dimmer 4	Dimmer (Brightness Value) 0 254

Load Type: TUNABLE WHITE – up to 2 loads

/				
Addr	Function	Map: Bianco Dinamico		
+0	Dimmer 1	Dimmer (Brightness Value) 0 254		
+1	Color	Color Correction Temperature		
	Correction 1	0 254		

Load Type: RGB

Addr	Function	Map: RGB
+0	R	R <mark>0 254</mark>
+1	G	G <mark>0 254</mark>
+2	В	В <mark>О 254</mark>

Load Type: Master+RGB+Strobo

	7)				
Addr	Function	Map: MRGB+			
+0	Master	Master Dimmer (Brightness Value)			
	Dimmer	0 254			
+1	R	R <mark>O 254</mark>			
+2	G	G <mark>0 254</mark>			
+3	В	В <mark>О 254</mark>			
+4	Strobo Rate (*)	STROBO 0 254			

Load Type: RGBW

Addr	Function	Map: RGBW
+0	R	R <mark>O 254</mark>
+1	G	G <mark>0 254</mark>
+2	В	В <mark>О 254</mark>
+3	W	W 0 254

Load Type: Master+RGBW+Strobo

Addr	Function	Map: MRGBW+
+0	Master	Master Dimmer (Brightness Value)
	Dimmer	0 254
+1	R	R <mark>O 254</mark>
+2	G	G <mark>0 254</mark>
+3	В	В <mark>О 254</mark>
+4	W	W <mark>0 254</mark>
+5	Strobo Rate (*)	STROBO 0 254

(*) Strobo Rate execute the functions of the strobe address of the control unit connected to the DGD-CBM-DALI. For example, if you connect the DGD-CBM-DALI to the DLD1248-4CV-DALI control unit, wich is also set with the MRGB+ o MRGBW+ map, the Strobo Rate address has the following characteristics:

+5	Strobo	fix	blackout	1fps	2fps	3fps	4fps	5fps	6fps	7fps	8fps	9fps	10fps	12fps	14fps	16fps	fix
	Rate	0.15	1631	32.47	48.63	6479	8095	96.111	112127	128143	144159	160175	176191	192207	208223	224239	240254

For other devices, if present the Strobo address, check the behavior of the Strobe address.

Custom maps can be requested on request.

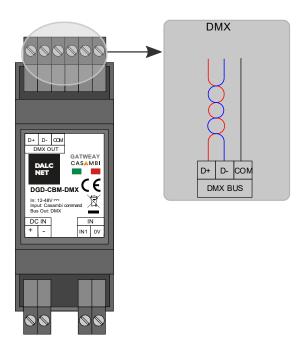


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DGD-CBM-DMX SETUP CONVERSION FROM CASAMBI SIGNAL TO DMX PROTOCOL



Features

The DGD-CBM-DALI is a Casambi-DALI converter.

The device receives the command signal of Casambi APP and transforms the signal in a sequence of DMX channel, depending on the profile previously set.

To control the conversion channels Casambi-DMX, check the reference chart "ADDRESSES MAP - DALI" Page 9.

Signal LED:

In case of Casambi command is correctly transmitted to the device, the LED signal stays consistently switched on. In case of the device is power on, the signal LED slowly flashes (1 pulse per second).

Relation with local commands:

When the device is switched on, by default, the local command (N.O. push button) is set on "controls a luminaire". The local command can be set by Casambi APP.

The local command and the command from Casambi APP have the same priority.



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Device Manual

CHANNEL MAP – DMX512

Load Type: WHITE - up to 4 loads

Ch.	Function	Map: Dimmer
1	Dimmer 1	Dimmer (Brightness Value) 0 255
2	Dimmer 2	Dimmer (Brightness Value) 0 255
3	Dimmer 3	Dimmer (Brightness Value) 0 255
4	Dimmer 4	Dimmer (Brightness Value) 0 255

Load Type: TUNABLE WHITE – up to 2 loads

Ch.	Function	Map: Tunable White				
1	Dimmer 1	Dimmer (Brightness Value) 0 255				
2	Correzione	Color Correction Temperature				
	Temp. Colore 1	0 255				

Load Type: RGB

Ch.	Function	Map: RGB
1	R	R <mark>0 255</mark>
2	G	G <mark>0 255</mark>
3	В	B <mark>O 255</mark>

Load Type: Master+RGB+Strobo

Ch.	Function	Map: MRGB+
1	Master	Master Dimmer (Brightness Value)
	Dimmer	0 255
2	R	R <mark>0 255</mark>
3	G	G <mark>0 255</mark>
4	В	B <mark>0 255</mark>
5	Strobo Rate (*)	STROBO 0 255

Load Type: RGBW

Ch.	Function	Map: RGBW
1	R	R <mark>0 255</mark>
2	G	G <mark>0 255</mark>
3	В	В <mark>О 255</mark>
4	W	W <mark>0 255</mark>

Load Type: Master+RGBW+Strobo

Ch.	Function	Map: MRGBW+
1	Master	Master Dimmer (Brightness Value)
	Dimmer	0 255
2	R	R <mark>0 255</mark>
3	G	G <mark>0 255</mark>
4	В	B <mark>O 255</mark>
5	W	W <mark>0 255</mark>
6	Strobo Rate (*)	STROBO 0 255

(*) Strobo Rate execute the functions of the strobe address of the control unit connected to the DGD-CBM-DMX. For example, if you connect the DGD-CBM-DMX to the DLD1248-4CV-DMX control unit, wich is also set with the MRGB+ o MRGBW+ map, the Strobo Rate address has the following characteristics:

6	Strobo	fix	blackout	1fps	2fps	3fps	4fps	5fps	6fps	7fps	8fps	9fps	10fps	12fps	14fps	16fps	fix
	Rate	0 15	16 31	32 47	48 63	64 79	80 95	96 111	112 127	128143	144159	160175	176191	192207	208223	224 239	240254

For other devices, if present the Strobo address, check the behavior of the Strobe address.



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Load Type: MOVING HEAD DMX 1)

Ch.	Function	lap: MRGBW+									
1	PAN	Moving Yoke / Moving Mirror Pan Coarse									
) 255								
2	TILT	Moving Yoke / M	Moving Yoke / Moving Mirror Tilt Coarse								
) 255								
3	Master Dimmer/	Master Dimmer (Brightness Value)	Strobo								
	Strobo	0 127	128 255								
4	R	R	0 255								
5	G	G	0 255								
6	В	В	0 255								
7	W	W	W 0 255								
8	Extra		0 255								

¹⁾ This profile is implemented to be managed only by the DGD-CBM-DALI.

Custom maps can be requested on request.