

ADEO CONTROL SGDD-C4-4

SERVER GATEWAY DMX & DALI2

for Control4 integrations

INSTALLATION AND USER MANUAL



V4

Firmware version: 1.0.34

December 2023

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1. Release Note

Dashboard version	Firmware version	TCP/IP stack version
0.0.81	1.0.34	TCP/IP version 2.1.2

News

- New web interface
- Fix commands tunable white
- Fix fade DALI
- Local input configuration

WARNING: The update will return the gateway to factory settings (e.g. IP address)

2. Application

The new Adeo Server Gateway SGDD-C4-4 is a multi-output device that operates at the network level and allows data packets to be routed to fieldbus communication systems such as DMX512A and DALI to provide advanced lighting control. Once the IP address is assigned on the Composer Pro, the SGDD-C4-4, through specific drivers, is able to manage the individual channel or RGB through DMX or DALI. Communication is bidirectional, so from the Control4 interface we will always have the updated status of the lights.

The SGDD-C4-4 device stores information from the configured receiver buses in a buffer and transmits it to the configured transmitter buses. In the default configuration, a single buffer, corresponding to a DMX universe, is managed and controlled via the Ethernet interface. On the DMX bus, all of the 512 channels of the buffer are transmitted; on the DALI bus, the first 64 channels of the buffer (64 short addresses) are transmitted according to an algorithm that updates the fastest changing channels more frequently. This default configuration allows a total of 512 levels of light intensity to be managed through any control unit with an Ethernet connection, and to control different devices without the need to know in detail how the relevant protocols (DMX or DALI) work.

Specifically, DMX/DALI conversion is possible in installations where DMX and DALI are used simultaneously. The supply voltage is between 12 and 48V DC and is fitted with DALI short-circuit and overload protection.

The SGDD-C4-4 provides, via its incorporated flash memory, a Web Server interface on which a standard application is loaded that allows real-time data setting or monitoring from a PC, Tablet or Smart Phone. With the SGDD-C4-4, advanced lighting control is possible at network level, with the advantage of intelligent communication through different communication buses. Indeed, SGDD-C4-4 manages the data and bus interface in a transparent way, allowing easier system configuration.

3. Technical Notes

Installation:

- Installation and maintenance must only be carried out by qualified personnel in accordance with the regulations in force.
- The product must be installed inside a surge-protected electrical cabinet.
- The product must be installed in a vertical or horizontal position with the front cover/label upwards or vertically; no other position is permitted; a bottom-up position (with the front cover/label downwards) is not permitted.
- Keep 230V (LV) and non-SELV circuits separate from safety extra-low voltage (SELV) circuits and all connections of this product. It is absolutely forbidden to connect, for any reason, directly or indirectly, the 230V mains voltage to the bus or other parts of the circuit.

Power supply:

- Use only SELV-type power supplies with limited current and short-circuit protection and appropriately sized power for the power supply. In the case of power supply units equipped with earth terminals, it is mandatory to connect ALL protection earth points (PE = Protection Earth) to a professionally installed and certified earth installation.
- The connecting cables between the extra-low voltage power source and the product must be correctly sized and must be isolated from any wiring or non-SELV voltage parts. Use double-insulated wires.

Commands:

- The length of the connecting cables between the local controls (Push Button, 0-10V, 1-10V, Potentiometer, or other) and the product must be less than 10m; the cables must be correctly sized and must be isolated from any wiring or non-SELV voltage parts. Use double-insulated shielded and twisted cables.
- The length and type of connection cables to the buses (DMX512, Modbus, DALI, Ethernet or other) must comply with the specifications of the respective protocols and current standards; they must be isolated from any wiring or non-SELV voltage parts. Use double-insulated shielded and twisted cables.
- All devices and control signals connected to buses (DMX512, Modbus, DALI, Ethernet or other) and local controls (Push Button, 0-10V, 1-10V, Potentiometer, or other) must be SELV (connected devices must be SELV or in any case provide a SELV signal).

In addition

- The device routes the DALI devices
- It supports DALI DT4, DT6 and DT8 protocols
- The Gateway feeds the communication bus and cannot coexist with other controllers
- The gateway can only receive commands via IP (Control4) and re-route them to the available 512 channels, regardless of the bus type
- Up to 8 scenarios can be saved (Power One + 7)
- Local contacts can be configured to call up individual scenarios or channels

It does not currently support remote connection via OvrC.

4. Characteristics

Tensione di alimentazione - Supply Voltage	12 / 24 / 48 Vdc or POE														
Corrente assorbita - Input Current	<table border="1"> <thead> <tr> <th>voltage</th> <th>min</th> <th>Typ*</th> <th>max</th> </tr> </thead> <tbody> <tr> <td>@ 12Vdc</td> <td>110mA (1,2W)</td> <td>320mA (3,84W)</td> <td rowspan="3">500mA</td> </tr> <tr> <td>@ 24Vdc</td> <td>60mA (1,44W)</td> <td>160mA (3,84W)</td> </tr> <tr> <td>@ 48Vdc</td> <td>40mA (1,92W)</td> <td>80mA (3,84W)</td> </tr> </tbody> </table> <p>*ethernet and all bus at full load</p>	voltage	min	Typ*	max	@ 12Vdc	110mA (1,2W)	320mA (3,84W)	500mA	@ 24Vdc	60mA (1,44W)	160mA (3,84W)	@ 48Vdc	40mA (1,92W)	80mA (3,84W)
voltage	min	Typ*	max												
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@ 48Vdc	40mA (1,92W)	80mA (3,84W)													
Temperatura di stoccaggio - Storage temperature	min: -40 max: +60 °C														
Temperatura di esercizio - Working temperature	min: -40 max: +40 °C														
Grado di protezione - Protection Grade	PLASTIC BOX IP10														
Peso - Weigth	ALUMINIUM BOX: 230g - PLASTIC BOX 125g														
Dimensioni Meccaniche - Mechanical dimensions	ALUMINIUM BOX: 105x70x47 - PLASTIC BOX: DIN RAIL 4mod.														
ETHERNET	10/100 Mbit baseT FULL DUPLEX AUTO NEGOTIATION														
DMX	Max 512 ch (dipende dal cablaggio) open fail safe - short fail safe														
DALI	Max 64 ch, alimentatore min 200mA – max 250mA integrato														
Dimensioni meccaniche	72 x 92 x 62 mm														

5. Reference Standards

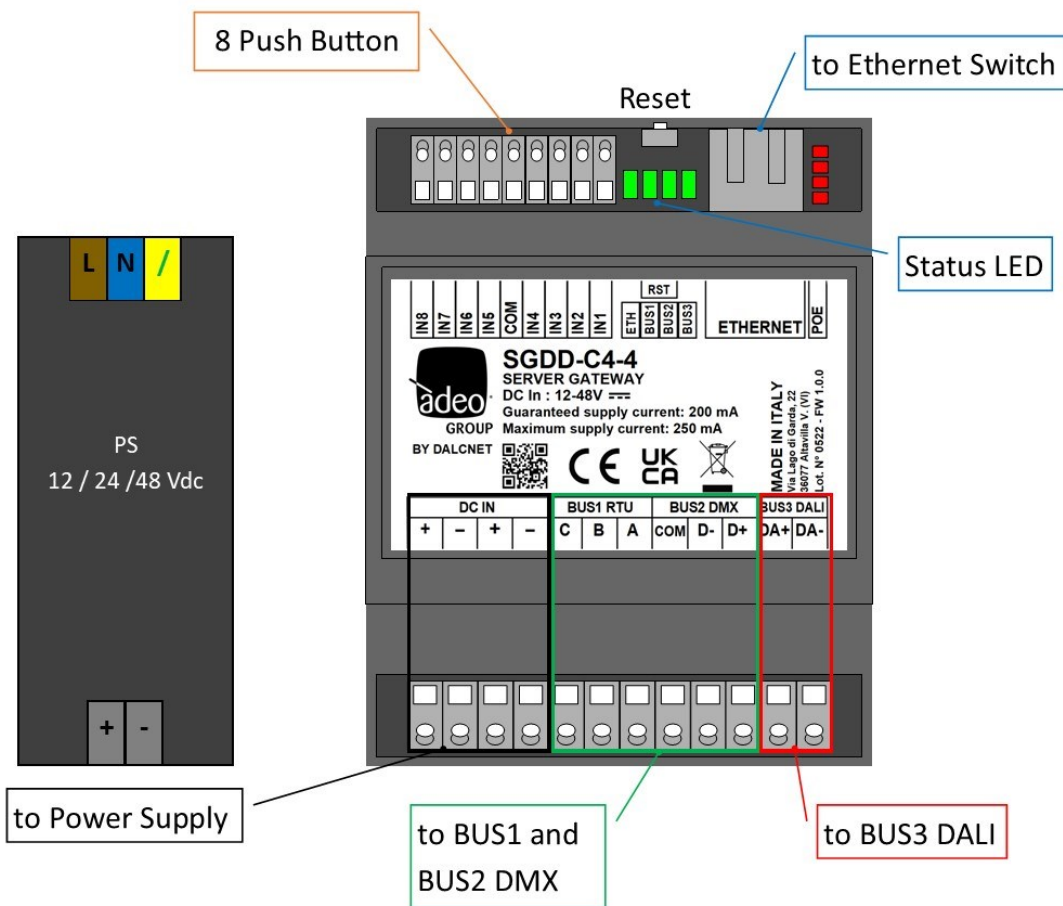
EN 55015	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment
EN 61547	Equipment for general lighting purposes – EMC immunity requirements
EN 61347-1	Lamp controlgear – Part 1: General and safety requirements
IEC 62386-101 ED.2	Digital addressable lighting interface – Part 101: General requirement – System components
IEC 62386-103 ED.2	Digital addressable lighting interface – Part 103: General requirements – Control devices
IEC 62386-205 ED.2 ¹	Digital addressable lighting interface – Part 205: Particular requirements for control gear – Supply voltage controller for incandescent lamps (device type 4)
IEC 62386-207 ED.2 ²	Digital addressable lighting interface – Part 207: Particular requirements for control gear – LED modules (device type 6)
IEC 62386-209 ED.2 ³	Digital addressable lighting interface – Part 209: Particular requirements for control gear – Colour control (device type 8)
ANSI E1.11	Entertainment Technology – USITT DMX512-A Asynchronous Serial Digital Data Transmission Standard for Controlling Lighting Equipment and Accessories

¹ L'SGDD-C4-4 provides commands for the DT4 control gears, compatible with IEC 62386-205

² L'SGDD-C4-4 provides commands for the DT6 control gears, compatible with IEC 62386-207

³ L'SGDD-C4-4 provides commands for the DT8 control gears, compatible to IEC 62386-208 (colour type Tc, colour type RGBWAF)

6. Connections



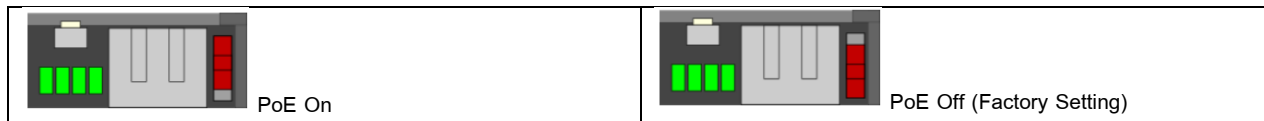
RST BUTTON:

If the reset button is pressed for less than 2 seconds, the device can be restarted, with the status LEDs lighting up, starting with the first one on the right in a progressive manner.

If the button is pressed for longer than 2 seconds and all four status LEDs light up, the system resets to the factory settings

POWER OVER PASSIVE ETHERNET (POE)

The device is also capable of operating on PoE power. The SGDD-C4-4 is a passive PD (Passive Power Device) that is powered without negotiation or communication processes from a PoE switch. To enable this power supply, simply move the PoE selector upwards.



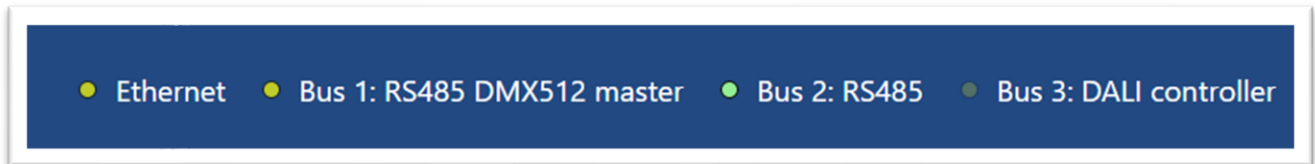
NOTE: Before connecting the device to a PoE switch or injector, disconnect any other power sources from the DC IN+ and DC IN- terminals.

7. Status LED

	LED1(left)	LED2	LED3	LED4(right)
Function	Ethernet	BUS1(DMX/RTU)	BUS2(DMX/RTU)	BUS DALI
ON	Connected with Ethernet communication	Connected with communication	Connected with communication	Connected with communication
Flashing	Ethernet cable connection	Connected without communication (only RTU)	Connected without communication (only RTU)	Connected without communication
OFF	Not connected	Not connected	Not connected	Not enabled (without power supply DALI)

The same status LEDs are also visible at the top right of the web interface, with these statuses:

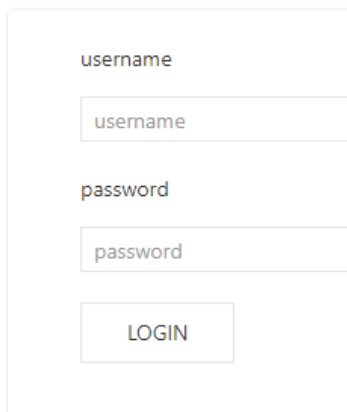
- **GREEN:** permanently lit: active;
- **FLASHING YELLOW:** no communication or not enabled



8. Local Button

The device is equipped with 8 configurable local contacts in **Local input configurations** (see relevant section in this manual). They can be used to control individual channels or individual previously saved scenes.

9. Web Server (Ethernet)

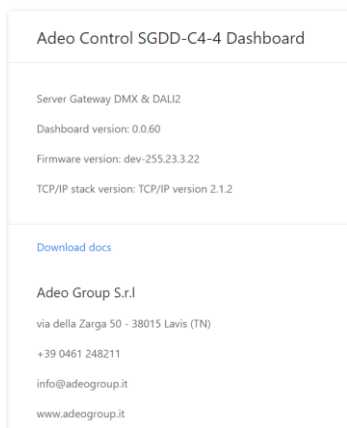


The screenshot shows a web login interface with the following elements:

- A label "username" above a text input field containing the placeholder "username".
- A label "password" above a text input field containing the placeholder "password".
- A button labeled "LOGIN" below the password field.

Default Address 192.168.1.4

1. Access your operating system browser (Google Chrome recommended) and access the local gateway address after connecting the Ethernet cable to the local network.
2. Enter the credentials in the username and password fields for the two modes present **ADMIN** and **USER**.
 - a. In **ADMIN** mode, you have full access to system settings and the default values are username = **admin**, password = **admin**.
 - b. Instead, **USER** mode allows only Channels to be displayed and the default values are username = **user**, password = **user**.
3. Press **LOGIN**.
4. You will be prompted to change your credentials the first time you log in.



The screenshot shows the "Adeo Control SGDD-C4-4 Dashboard" with the following information:

- Server Gateway DMX & DALI2
- Dashboard version: 0.0.60
- Firmware version: dev-255.23.3.22
- TCP/IP stack version: TCP/IP version 2.1.2
- [Download docs](#)
- Adeo Group S.r.l.
- via della Zarga 50 - 38015 Lavis (TN)
- +39 0461 248211
- info@adeogroup.it
- www.adeogroup.it

After logging in, the landing page shows the **Device Info** (always visible by pressing the logo at the top left of the interface).

The following functions/sections can be found on this page:

- **LOGOUT** return to the main **LOGIN** page by pressing at top right.
- The following are displayed in the centre and in this order:
 - **Dashboard version**, version of the web pages
 - **Firmware version**, version of the fw present in the gateway
 - **TCP/IP stack version**, version of the TCP/IP protocol
 - **Download docs**, you can download all documentation from the Adeo Group website

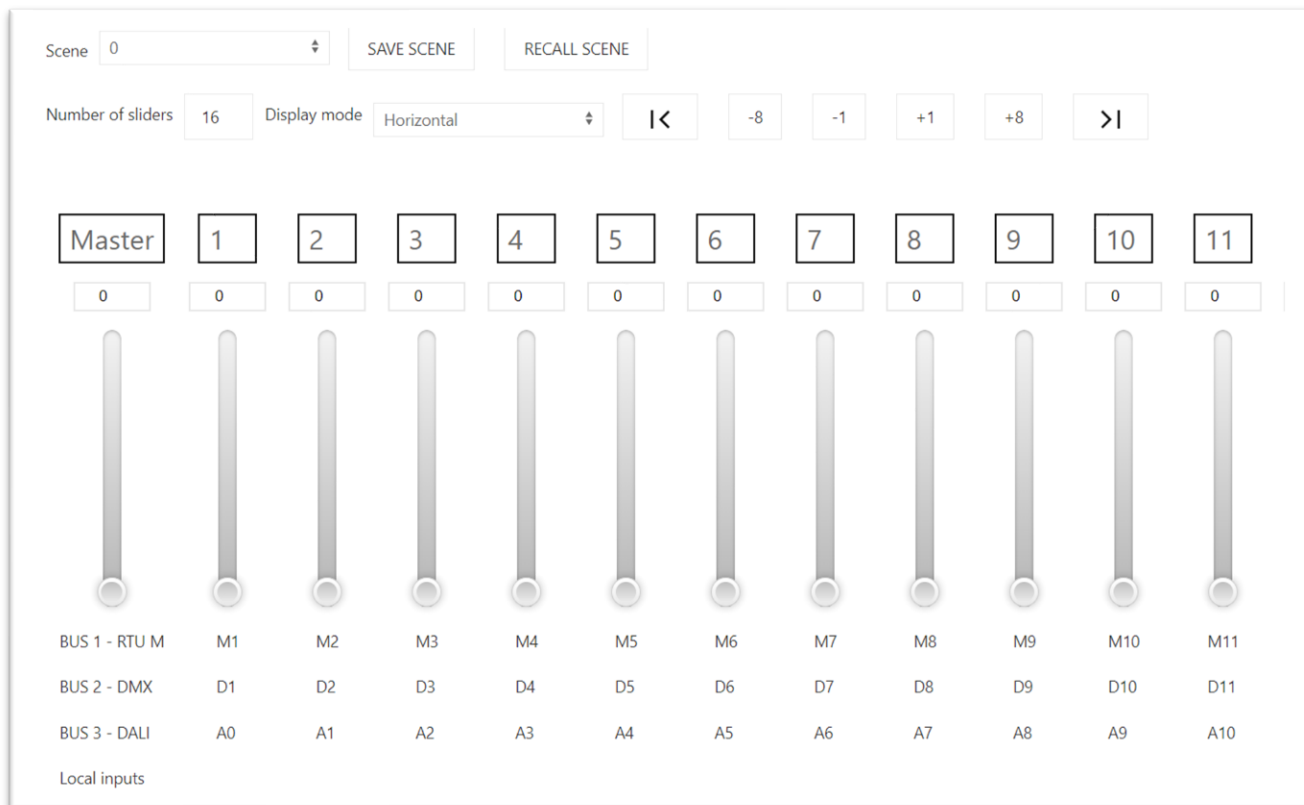
Finally, the page shows the data of the developer company. The product is manufactured by Dalcnet Srl (Italy).

10. Configuration menu

SGDD	
Channels	Channels: complete list of channels with relative control (not visible if in DALI CONFIG mode)
BUS	
Bus configuration	Bus Configuration: configurations for every single physical bus present on the gateway
DALI global settings	DALI global settings: settings for the DALI bus (only editable if in DALI CONFIG mode)
DALI controller	DALI controller: all addressed DALI devices and relative groups (not visible if in DALI CONFIG mode)
SETTINGS	
Local inputs configuration	Local input configuration: Configuring the 8 Local Contacts
Network	Network: settings to modify and manage IP address, Netmask and MAC Address
Login settings	Login settings: settings to modify and manage LOGIN USER and PASSWORD
Telnet	Telnet: settings to enable or disable the protocol and sending times
ARTNet	ARTNET: settings to enable or disable the protocol
Firmware update	Firmware Update: update mode of the device Firmware
DIAGNOSTIC	
Log	Log: relative logs to receive remote assistance
Log configuration	Log Configuration: settings to manage LOGS

BUS

11. Channels



The gateway has a WebApp to supervise and set up all available channels by choosing from the **Channels** pop-up menu, which can be used from any recent device with a compatible browser (see below).

In **Scene** we can select the number of the scene that we can associate to pre-established scenario in **SAVE SCENE**. **RECALL SCENE** recalls the scene that has already been saved. **Power On** is the default scene that is invoked when there is no communication on the buses (e.g. power failure). Currently, the complete control of the "Color Wheel" used, for example, with DALI DT8 devices, has not yet been implemented.

A window is displayed with 16 channels visible by default, you can scroll through all other channels with the +/- 8 and +/-1 buttons.

In addition, through **Number of Sliders** it is possible to choose how many channels to watch together (no more than 200).

Also in the **Display mode** selection menu, it is possible to set whether the sliders are visible horizontally or vertically.

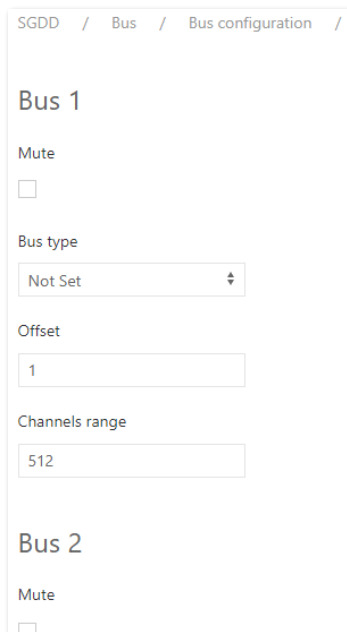
It is possible to move all channels with the **Master channel** (Broadcast command).

Below each channel there is an indication of whether or not it belongs to one of the three available buses with the relative set offset and range (see **Bus Configuration**).

Local input will show if the channel has been associated with one of them and how it is configured.

NOTE: To use the available services and applications correctly, it is necessary to use a compatible browser: CSS-3, JS, XHR, CORS, JSON, ArrayBuffer. Compatible browsers are: Microsoft Edge v. 16, Google Chrome v. 66, Mozilla Firefox v. 57, Safari v. 12.1, Opera v. 53 or higher.

12. Bus Configuration



Bus 1 and 2 are related to the first and second RS-485 ports.

The BUS can be disabled via the "**Mute**" flag.

Bus type

"**Not Set**" disable the bus.

The integration with Control4 does not currently require the use of the MODBUS configuration (both master and slave).

Typically, the **DMX512 master** type is used.

The two outputs can be used for DMX sharing the same universe (max 512ch) as if it were a DMX splitter.

Offset

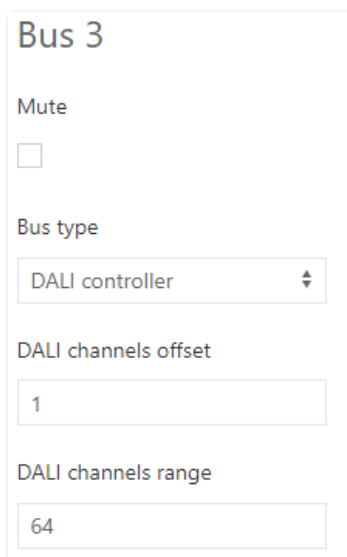
In this menu you can assign an "offset" (minimum 1).

Channels Range

Specifies the number of channels used.

Bus 3 is relative to the third port and belongs to the only DALI bus

The BUS can be disabled via the "**Mute**" flag.



Bus type

"**Not Set**" disables and removes the power to the bus.

"**DALI controller**" allows communication between Control4 and the DALI bus

"**DALI config**" after selecting from the drop-down menu and clicking on **Apply** (top right) you can direct the DALI nodes, from the **DALI config** section

It will also not be possible to see the **Channels** menu.

Offset

In this menu you can assign an "offset" (minimum 1).

Channels Range

Specifies the number of channels used.

NOTE: When addressing DALI devices in DALI **config** mode it is recommended to put the range to 64 (maximum value) and only after directing the devices change the range to the desired value in **DALI Controller** mode.

After changing the settings, click on the '**APPLY**' button at the top right, otherwise the changes will be lost.

13. DALI global settings

Only in **Dali config** mode is it possible to change the parameters to be sent to the BUS DALI, which are:

Transmit as

“**address**” Send address commands

”**group**” Send group commands

“**broadcast**” Send broadcast commands

Send command “OFF” instead of “DAPC 0”

Send a DALI command of OFF instead of the DAPC command to 0.

SystemFailureLevel

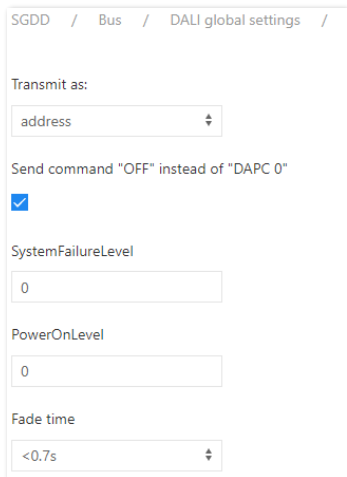
Send System Failure Level command in broadcast.

PowerOnLevel

Send Power On Level command in broadcast. If set to 255 (MASK) it will send a command to the DALI device that allows it to restore the state before the power failure (if supported).

Fade time

Send Set fade time command in broadcast



SGDD / Bus / DALI global settings /

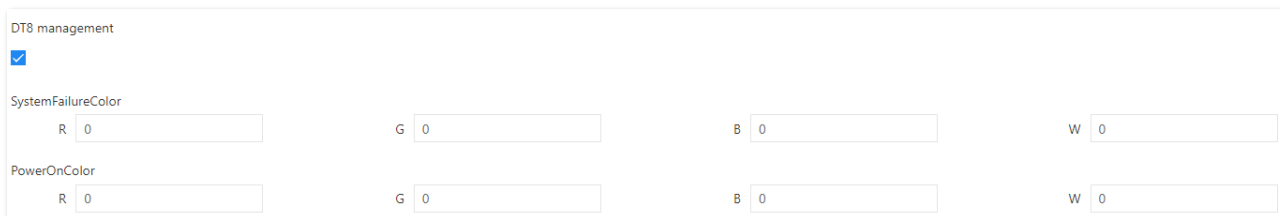
Transmit as:

Send command "OFF" instead of "DAPC 0"

SystemFailureLevel

PowerOnLevel

Fade time



DT8 management

SystemFailureColor
 R G B W

PowerOnColor
 R G B W

DT8 management Enable management of devices that support DT8.

SystemFailureColor Send System failure Color command for RGBW components.

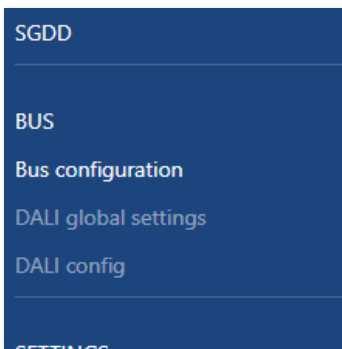
PowerOnColor Send Power On Color command for RGBW components.

After changing the settings click on the top right button "APPLY" otherwise the changes will be lost.

ATTENTION: Integration with Control4 can currently only function in the 3 distinct modes (address, group or broadcast). There is no mixed mode (e.g. both address and group). For this reason, it is recommended to carefully consider which mode to use from the start, depending on the project.

It must be said that the **address** configuration is always recommended since in **Composer** it will be possible to easily manage many more than 16 "groups" of lights with the **AGENT Advanced Lighting**.

14. DALI config



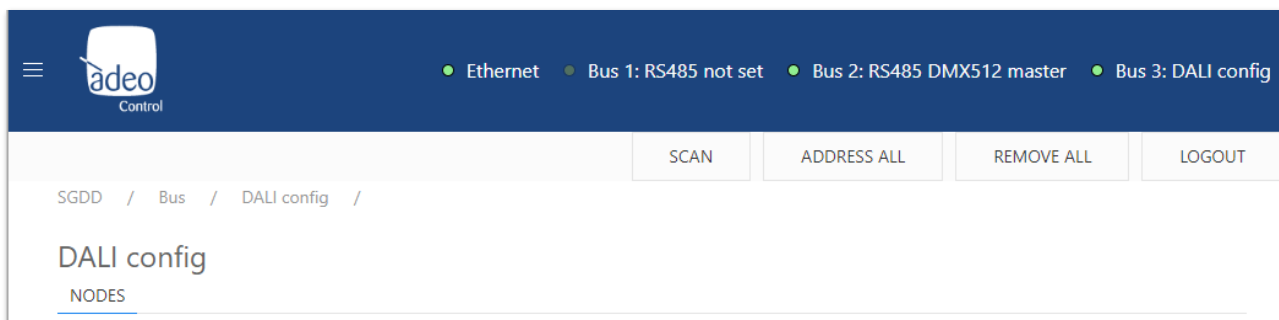
After enabling **DALI config** from the **Bus type** menu under **BUS 3** in **Bus configuration**, the configuration menu changes appearance, allowing addressing by **DALI config**, which takes the place of **DALI Controller** (required instead for communication with Control4).

The other menus are also disabled to highlight addressing activity. It is now possible to edit **DALI global settings**.

15. Addressing

NOTE: Before addressing and configuring DALI devices, **BUS 3** must be set to **DALI Config** mode.

By clicking on **DALI config** on the pop-up menu, we enter the DALI device addressing interface:



In the top right-hand corner there are the following commands:

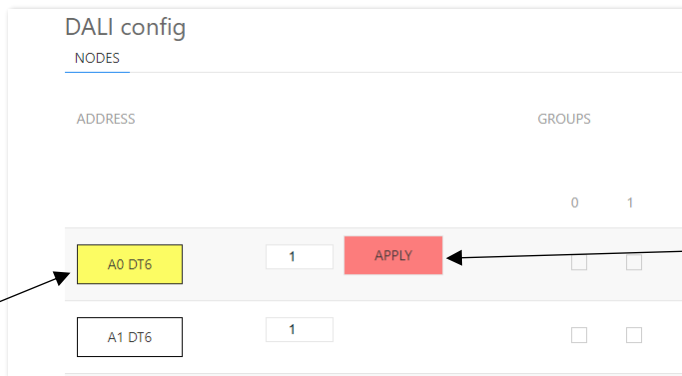
- **SCAN:** perform acquisition of previously addressed DALI nodes; this may take a few minutes;
- **ADDRESS ALL:** performs addressing of all DALI nodes; this may take several minutes;
- **REMOVE ALL:** removes all addressed DALI nodes.

NOTE: before performing a complete addressing of the system, it is necessary to send a "**REMOVE ALL**" command and then press "**ADDRESS ALL**" to perform a complete addressing of the DALI system.

ATTENTION: The numbering in Composer goes from 1 to 64. It is best to use the **AskForType** function in **Actions**, from Gateway driver, after addressing and before making **Connections**.

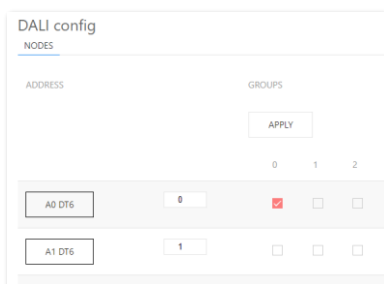
Visual identification of addressed devices

It is possible to make the addressed node flash to be able to visually identify the associated lighting body. Just click on the label of the address'



Change address

Enter the desired node number (0 to 63) and click on "APPLY" on the right. "



DALI groups

By clicking on one of the 16 available groups (0 to 15), it is possible to send the add command to the relevant group on the boxes to the right of the individual node. Then click on the 'APPLY' button immediately above. Immediately afterwards, the command is sent to the DALI BUS.

N.B.: the DALI commands are sent only by pressing 'APPLY', and turn blue afterwards.

ATTENTION: Currently only work in 3 modes separate (address, group or broadcast). There is no mixed mode (e.g. both address and group). See **DALI global settings**. For this reason, it is advisable to assess well, depending on the project, which mode to use from the outset.

It must be said that the **address** configuration is always recommended since in **Composer** it will be possible to easily manage many more than 16 "groups" of lights with the **AGENT Advanced Lighting**.



DALI node status

Feedback on the status of the DALI node is possible:

- **Black:** node present and off
- **Yellow:** node present and lit
- **Orange:** node present but not responding correctly (**LAMP FAILURE**)

SETTINGS

16. Local inputs configuration

On this page, you can enable or disable the 8 local inputs. By default, local inputs are disabled. Each of them can have control of the single channel (Channel) or the single scene (Scene).

Local inputs

Local input 1 mode Disabled ⌵ Button + Dimmer ⌵

Local input 2 mode Disabled ⌵ Button + Dimmer ⌵

Local input 3 mode Disabled ⌵ Button + Dimmer ⌵

Configuring the Local Input as "Channel"

Local input 1 mode Channel ⌵ Button + Dimmer ⌵ Channel 1

By setting the **Local input** in **Channel**, it is possible to control only one physical channel of the 512 available.

Type of behaviors that the local button can have:

- **Button + Dimmer**: connect an N.O. button to the local input of the gateway. A quick press switches from the OFF state to the ON state and vice versa. With a long press of the button, the selected channel can be dimmed ;
- **Button**: Connect an N.O. button to the local input of the gateway. By pressing quickly, you can switch from the OFF state to the ON state and vice versa;
- **Switch**: Connect a switch, sensors, or other devices with dry contacts to the local input of the gateway. When the switch is open (contacts are open) the status of the selected output will be set to the value "0". When the switch is closed (contacts closed) the output status will be set to the value "255".

Click **Apply** to confirm.

Configuring the Local Input as "Scene"

Local input 1 mode Scene ⌵ Button + Dimmer ⌵ Scene 0 ⌵ RECALL SCENE

By setting the local input in Scenes , you can call up previously saved scenes.

Type of behaviors that the local button can have:

- **Button**: Connect an N.O. button to the local input of the gateway. A quick press switches from the OFF state to the state set in the scene and vice versa;
- **Switch**: Connect a switch, sensors, or other devices with dry contacts to the local input of the gateway. When the switch is open (contacts are open) the status of the selected output will be set to the value "0". When the switch is closed (contacts are closed), the status of the outputs set in the scene will be recalled.

Click **Apply** to confirm.

17. Network

SGDD / Settings / Network /	
IP Address	192.168.1.4
Netmask	255.255.255.0
Gateway	192.168.10.1
MAC Address	00:01:02:03:04:05

The gateway uses the Ethernet port via IPv4 protocol.

The default IP address is: 192.168.1.4

The same address must be entered in **Composer Pro** in the **Connections/Network** section

After changing the settings, click on the top right button **APPLY** otherwise the changes will be lost.

18. Login settings

User login	
Username	user
Password	user
Admin login	
Username	admin
Password	admin

After logging in as **ADMIN**, you can change your username and password by clicking on **Login Settings**.

After changing the settings, click on the top right button **APPLY** otherwise the changes will be lost.

CREDENTIAL CHANGE

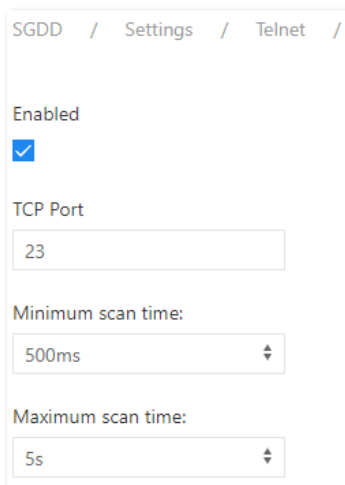
The first time you log in, you will be prompted to change the login credentials for the admin user. It is suggested to set a new password with numbers, uppercase and lowercase letters. No special characters are allowed.

Subsequently, in **ADMIN** mode, it is possible to change the username and password of the two users by clicking on **Login Settings** in the menu and entering the desired credentials.

Click **Apply** to confirm.

After logging in as a **user**, the web interface will be limited to displaying only the **Channels section**

19. Telnet



The gateway has a Telnet server that can receive and/or transmit a DMX512A/DALI/MODBUS RTU universe from/to other devices via TCP protocol, in our case to the Control4 driver.

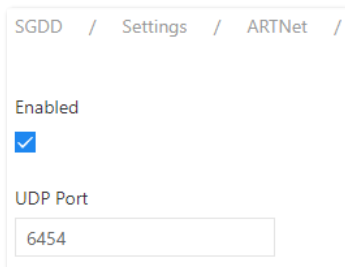
Communication takes place by establishing a connection on **TCP port 23** (Do not change).

The minimum interval that can be set for sending the response strings is defined as **Minimum scan time**.

If no changes are detected, the interval at which the string is periodically sent is defined with the value set to Maximum scan time. A value of zero disables periodic transmission.

The tests were carried out on the basis of the default settings. The variation may lead to changes in the integration behaviour.

20. ARTNet



The gateway implements the Art-Net 4 protocol and can be used as a gateway by the main software and lighting control systems:

- Art-Net → DMX
- Art-Net → DALI

The port used is there UDP 6454.

After changing the settings, click on the top right button "**APPLY**" otherwise the changes will be lost.

21. Firmware update

The firmware update is not automatic and can only be carried out if you are in possession of the *.upf file provided through the Adeo Group's channels.



From here, simply click **Choose file** and indicate the location of the file in your system.

Click on **Update now** and follow the on-screen prompts. When finished, the **Reboot** button will appear.

When restarting, the two side status LEDs **LED 1** and **LED 4** will start flashing (p. 7).

If the device subsequently returns to flashing in standard mode, the firmware update was not completed. If the update is valid and after the one already loaded, the right LED (LED 4) will remain lit and will then change three more times to different LEDs.

After the firmware update, the device flashes again in standard mode and the web page will display the new version in the information.

NEVER SWITCH OFF THE POWER FROM THE GATEWAY UNTIL THE UPDATE IS COMPLETED

At the time of writing this manual, the latest firmware version is:

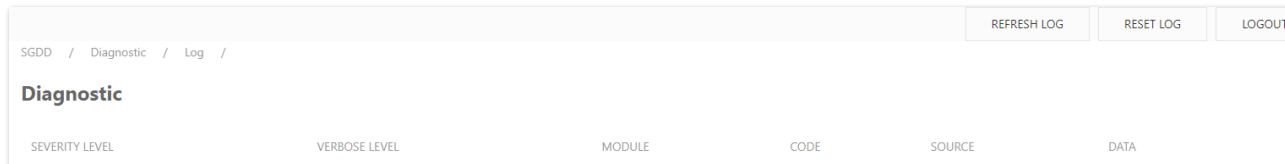
- Server Gateway DMX & DALI2
- Dashboard version: 0.0.81
- Firmware version: 1.0.34
- TCP/IP stack version: TCP/IP version 2.1.2

The latest firmware can be found in the downloadable folder from <https://drivercentral.io/platforms/control4-drivers/lighting/adeo-control-sgddc44-server-gateway-dali2-and-dmx-driver-suite/>

Or just write to info@adeogroup.it

DIAGNOSTIC

22. Log



Technical support can be provided remotely through the **DIAGNOSTIC** web page in the **LOG** section.

To configure the diagnostics part according to remote assistance requests, select **Log Configuration**.

23. Log configuration

Security Level

Set the type of information you want to display on the **Log**:

“**Info**” information on the system that does not denote any type of problem;

“**Warning**” information that denotes that the system is functioning correctly but that may affect the functioning of the system;

“**Fault**” causing a real impact on the system

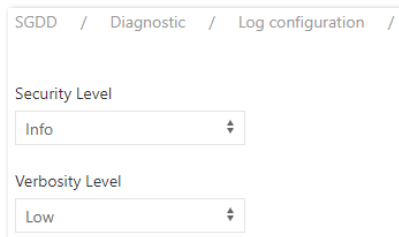
Verbosity level

This denotes the level of the information we have above and is:

“**Low**” low level;

“**Medium**” medium level;

“**High**” high level.



24. Best Practice

- a. Before integration with the Control4, it must be ensured that the lighting system is working properly. Wiring errors or hardware malfunctions can affect driver programming and usage.
- b. Using a diagram or a lighting project is always very useful to then reproduce in System Design the system to be controlled.
- c. We recommend that you never use a single gateway to control all 64 DALI devices provided. Due to the excessive consumption of energy, of individual DALI devices on the bus, it may happen that there is no proper communication. This is because the integrated power supply fails to meet the energy demand of all 64 devices. It's best to provide multiple gateways.
- d. It is important to understand what kind of lighting fixtures and the behaviour they will have to have. If we have to carry out a control on a tunable white type lighting fixture (or dynamic white or white light temperature) we will have several options in front of us:
 - iv. **DALI DT6**, unlikely but feasible. The addressing will take away two channels associated with 2 **Adeo Control SGDD-C4-4 Single Dim-Light Driver**
 - v. **DALI DT8**, more plausible. The addressing will take away only one channel associated with the **Adeo Control SGDD-C4-4 TW DT8 Driver**
 - vi. **DMX**, recommended even if implausible. The addressing will take away two channels associated with 2 **Adeo Control SGDD-C4-4 Single Dim-Light Driver**. In this case we have 512 channels available. We recommend the use of the **ADEO CONTROL 4CH-LED-DIMMER-DMX**.
- e. It is always recommended to deal with those who are in charge of providing the lighting control devices.
- f. It is important to decide right away how to operate (see **DALI global settings**):
 - iv. **Address**, in this case we will have 64 "**Connections**" available in **Composer**
 - v. **Group**, in this case we will have 16 "**Connections**" available in **Composer**
 - vi. **Broadcast**, in this case we will have 1 "**Connections**" available in **Composer**
- g. We invite you to use the Drivers in conjunction with the **Agent Advanced Lighting**
- h. The **Color Control** driver aggregates multiple drivers that control the single function (see DMX or DALI DT6), for this we recommend using hardware dimmers such as [4ch-LED-DIMMER-DMX DMX 4ch](#) constant voltage DMX dimmer which can provide different functions.
- i. The DT8 Color Control driver **is able to send multiple commands to the single DALI DT8 device**

For more info

www.adeogroup.it

info@adeogroup.it