

CONTROL4 INTEGRATION MANUAL

ADEO CONTROL SGDD-C4-4 SERVER GATEWAY DMX & DALI2



Firmware version: 1.0.42

ADEO CONTROL SGD-C4-1 SERVER GATEWAY DMX



Firmware version: 1.0.42

V2

August 2024

Summary

1.	Release Note.....	3
2.	Application	4
4.	Integration with Control4	5
5.	DALI and DMX integration example	6
6.	Difference Between DALI Type 6 and DALI Type 8	6
7.	DALI & DMX Comparison.....	7
8.	Before you program	8
9.	Driver.....	8
10.	Color Control Driver.....	9
11.	Uses of color control drivers	9
12.	Adeo Control SGDD-C4-4 Driver (Adeo_Control_SGDD-C4-4_Gateway.c4z)	10
13.	Adeo Control SGDD-C4-4 Color Control (Adeo_Control_SGDD-C4-4_Color-Control.c4z)	13
14.	Adeo Control SGDD-C4-4 DT8 Color Control (Adeo_Control_SGDD-C4-4_DT8_CC.c4z).....	15
15.	Best Practices	17
16.	Dimmer Driver with light_v2 Proxy	18
17.	Adeo Control SGDD-C4-4 Single Dim-Light Driver (Adeo_Control_SGDD-C4-4_Single_Dimmable_Light.c4z).....	19
18.	Adeo Control SGDD-C4-4 RGBW DT8 Driver (Adeo_Control_SGDD-C4-4_RGBW-DT8.c4z).....	20
19.	Adeo Control SGDD-C4-4 TW DT8 Driver (Adeo_Control_SGDD-C4-4_TW-DT8.c4z).....	22
20.	Adeo Control SGDD-C4-4 RGB HSV Driver (Adeo_Control_SGDD-C4-4_RGB_HSV.c4z)	24
21.	Adeo Control SGDD-C4-4 Switch RGB Driver (Adeo_Control_SGDD-C4-4_SW_RGB.c4z).....	25
22.	Adeo Control SGDD-C4-4 Relay Driver (Adeo_Control_SGDD-C4-4_Relay.c4z)	26

1. Release Note

Version	Date	Description
1.0.34	29/11/2023	/
1.0.35	29/01/2024	ADEO & ADEO DMX Default value settings
1.0.36	09/04/2024	Password text box change
1.0.37	09/04/2024	Adeo fix intensity query + DMX scan time default 5ms
1.0.38	10/04/2024	/
1.0.39	10/04/2024	Tc query fix
1.0.40	19/04/2024	/
1.0.41	19/04/2024	Bugfix: powerup state & DALI engine delay removed
1.0.42	22/05/2024	Adeo version DALI bus enabled as Default

CAUTION: Completely reset the unit after performing the update through the procedure found in the product manual.

2. Application

Adeo Control's Server Gateways are multi-output devices that operate at the network level and allow data packets to be conveyed to fieldbus communication systems such as DMX512A and DALI, in order to provide advanced light regulation. Once the IP address has been assigned on the Composer Pro, through specific Drivers they are able to manage the single channel or RGB via DMX or DALI. Communication is bidirectional, so from the Control4 interface we will always have the updated status of the lights.

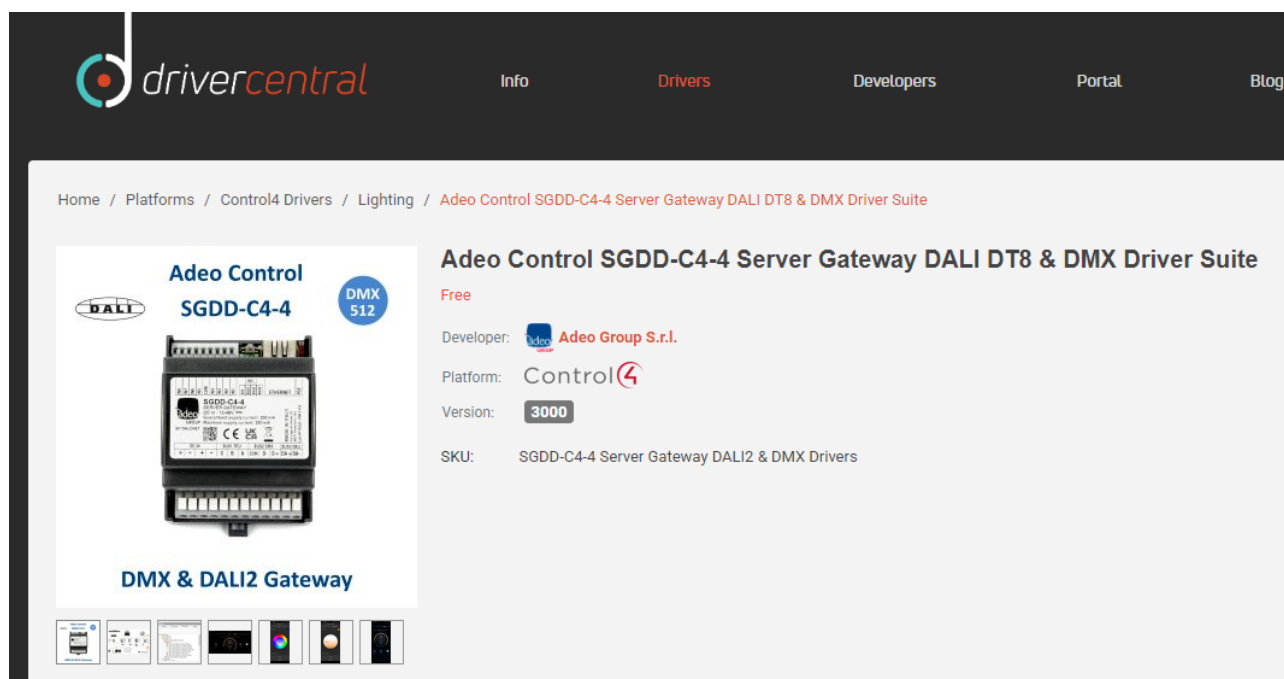
The SGDD-C4-4 or SGD-C4-1 device buffers information from the buses configured for receive and transmits it to the buses configured for transmission. In the default configuration, a single buffer is managed, corresponding to a DMX universe, which is controlled through the ethernet interface. The 512 channels of the buffer are transmitted entirely on the DMX bus; the first 64 channels of the buffer (64 short addresses) are transmitted on the DALI bus according to an algorithm that updates the channels that vary more frequently more rapidly. This default configuration allows you to manage, through any control center that has an ethernet connection, a total of 512 levels of light intensity and to control different devices without needing to know in detail the operation of the related protocols (DMX or DALI).

In particular, DMX/DALI conversion can be performed in installations where DMX and DALI are used simultaneously. The supply voltage is between 12 and 48V DC and is equipped with protections for DALI short circuit and overload.

The gateways provide, through the integrated flash memory, a Web Server interface on which a standard application is loaded that allows you to set up or monitor data in real time from a PC, Tablet or SmartPhone. With both gateways it is possible to carry out advanced light control at the network level, with the advantage of communicating intelligently through different communication buses. SGDD-C4-4 and SGD-C4-1, in fact, take care of the management of data and the interface between the buses in a transparent way and this allows a simpler configuration of the system.

4. Integration with Control4

- The gateway comes with the free driver and only works with the SGDD-C4-4.
- The gateway simultaneously handles the DMX and DALI buses, showing 512 channels in Connections.
- The gateway supports RampToLevel directly via hardware.
- The 512 channels are matched to the light/relay drivers in Connections.
- You can send broadcast commands directly from the gateway driver.
- The light drivers support Advanced Lighting.
- Drivers support OS3 and beyond.
- Through specific Drivers, the gateway can control DALI and DALI2 devices of type:
 - DT4, Control gear for phase dimmers
 - DT6, Control gear for LEDs
 - DT8, Control gear for colour converters
 - DT255¹, Multi-device types



The screenshot shows the 'drivercentral' website interface. The top navigation bar includes links for Info, Drivers, Developers, Portal, and Blog. The main content area displays the product 'Adeo Control SGDD-C4-4 Server Gateway DALI DT8 & DMX Driver Suite'. It features a product image of the gateway unit, which is labeled 'DMX & DALI2 Gateway' and 'DMX 512'. To the right of the image, the following details are listed:

- Free**
- Developer:** Adeo Group S.r.l.
- Platform:** Control4
- Version:** 3000
- SKU:** SGDD-C4-4 Server Gateway DALI2 & DMX Drivers

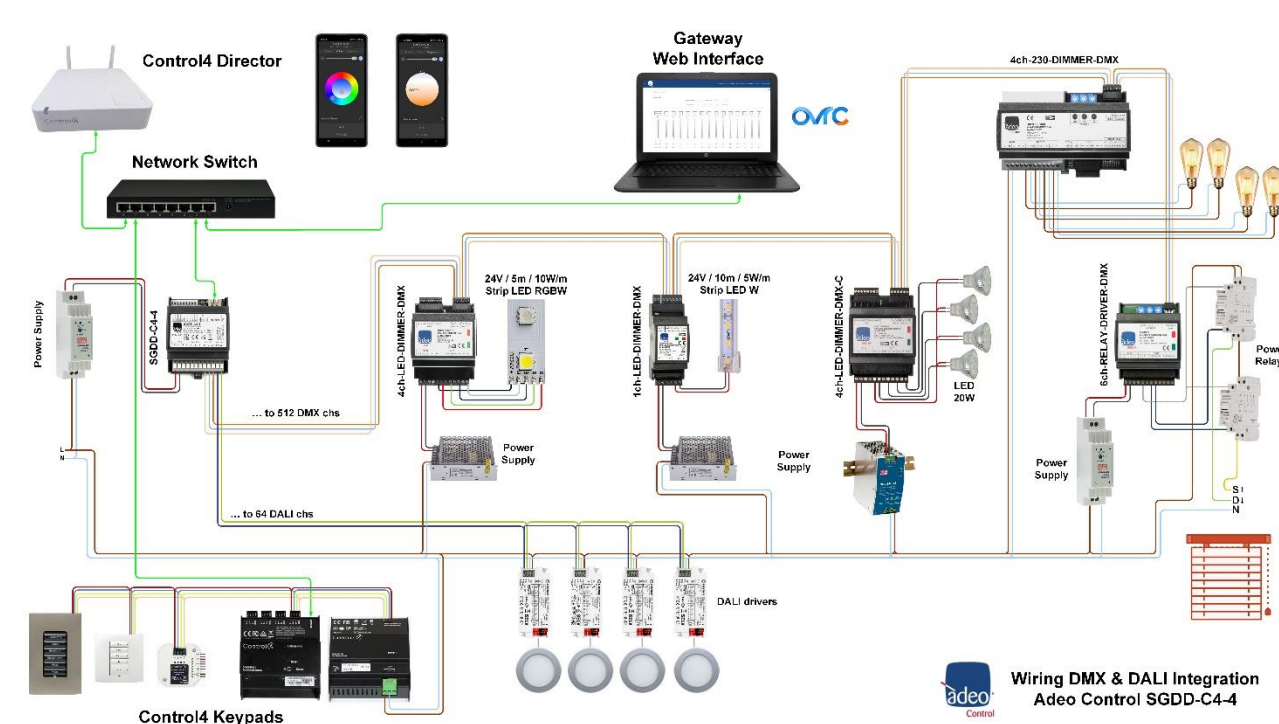
Below the product image, there are several small icons representing different lighting control features and protocols.

Updated Drivers can be downloaded for free from

<https://drivercentral.io/platforms/control4-drivers/lighting/adeo-control-sgddc44-server-gateway-dali2-and-dmx-driver-suite/>

¹ 255 Device Type: Multi-device type. They include at least two types of devices, in our case just think that they can be configured in DT6 or DT8 depending on the practical use.
 The gateway will always find the device as DT255, just know how the DALI driver is configured.

5. DALI and DMX integration example



6. Difference Between DALI Type 6 and DALI Type 8

DT6, "Single-Channel" commands, use a single address to control a single channel. Multichannel Type 6 DALI commands use X number of addresses to control X number of channels. For example, if we need to control an RGB LED strip, we will use 3 addresses (out of 64) to control the 3 colors individually. If the device provides it, we could also control the intensity (Master), so we will have to provide an additional address.

DT8 commands use one address to control two or more channels.

For example, if we have to control a Tunable White (or Dynamic White) LED strip, we can use a single address (out of 64) and send many more commands, which obviously involve controlling the intensity and temperature of the light.

7. DALI & DMX Comparison

Design considerations for a DALI ecosystem

N°	Fixture	DALI Type	DALI Address	N° SGDD-C4-4
10	RGB	DT6	(10x3) 30	1 (30/64)
20	RGBW	DT6	(20x4) 80	2 (80/128)
40	TW	DT6	(40x2) 80	2 (80/128)
10	RGB	DT8	10	1 (10/64)
20	RGBW	DT8	20	1 (20/64)
40	TW	DT8	40	1 (40/64)

Design considerations of a DMX ecosystem

N°	Fixture	DMX Address	N° SGDD-C4-3
512	White	512	1
170	RGB	(170x3) 510	1
128	RGBW	(128x4) 512	1
128	TW	(120x2) 252	1

It is obvious that the most suitable technology for the purpose is the one that best meets the performance/price ratio.

However, it is not obvious for the market:

	DALI	DMX
BUS Speed	-	+
Easy wiring	+	-
Availability on the market	+	-
Versatility	-	+
Know-how	+	-
Addresses/Channels	-	+

8. Before you program

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

Verify that the Network settings are correct.

Note the IP Address, which is required for settings in Composer.

Also check the communication between the gateway and the field buses, DMX and/or DALI, from **Channels**.

In the case of DALI, make sure that you have assigned all addresses correctly.

Communication between the driver and the gateway takes place via Telnet protocol.

Verify that Telnet is active on the gateway (see section 19 of the Manual).

9. Driver

Items

Locations Discovered My Drivers Search

sgdd-c4-4 Clear

☒ Local ☐ Online ☐ Certified Advanced

Category - All

Type - All

Manufacturer - All

Control - All

Sort Relevance

Adeo Control SGDD-C4-4 Driver	Adeo Control others	06/07/2022
Adeo Control SGDD-C4-4 Relay Driver	Adeo Control others Other	06/07/2022
Adeo Control SGDD-C4-4 RGBW DT8 Driver	Adeo Control Light (v2)	06/07/2022
Adeo Control SGDD-C4-4 Single Dim-Light Drive	Adeo Control Light (v2) IP	06/07/2022
Adeo Control SGDD-C4-4 Switch RGB Driver	Adeo Control Light (v2) IP	06/07/2022
Adeo Control SGDD-C4-4 TW DT8 Driver	Adeo Control Light (v2)	06/07/2022
Adeo Control SGDD-C4-4 RGB HSV Driver	Adeo Control Light (v2) IP	06/07/2022

The Drivers are free and have been developed by StArt Project for Adeo Group.

The entire Driver suite can be downloaded free of charge at:

<https://drivercentral.io/platforms/control4-drivers/lighting/adeo-control-sgddc44-server-gateway-dali2-and-dmx-driver-suite/>

The Drivers for releases up to OS 3.2.4 are:

Name	Device File
Adeo Control SGDD-C4-4 Driver	Adeo_Control_SGDD-C4-4_Gateway.c4z
Adeo Control SGDD-C4-4 RGBW DT8 Driver	Adeo_Control_SGDD-C4-4_RGBW-DT8.c4z
Adeo Control SGDD-C4-4 TW DT8 Driver	Adeo_Control_SGDD-C4-4_TW-DT8.c4z
Adeo Control SGDD-C4-4 Single Dim-Light Driver	Adeo_Control_SGDD-C4-4_Single_Dimmable_Light.c4z
Adeo Control SGDD-C4-4 RGB HSV Driver	Adeo_Control_SGDD-C4-4_RGB_HSV.c4z
Adeo Control SGDD-C4-4 Switch RGB Driver	Adeo_Control_SGDD-C4-4_SW_RGB.c4z
Adeo Control SGDD-C4-4 Relay Driver	Adeo_Control_SGDD-C4-4_Relay.c4z

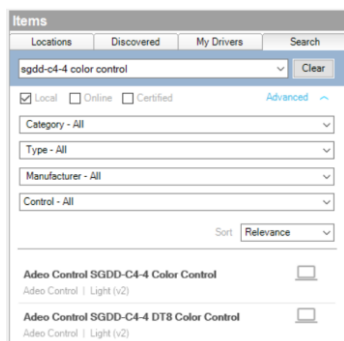
Copy the drivers to the *Documents/Control4/Drivers* folder created by Composer Pro.

Using the "Search" tab in System Design, add drivers to the list of devices in your project. Tick

"Local"

Version: 3102

10. Color Control Driver



The Drivers for releases from OS 3.3 and beyond are:

Name	Device File
Adeo Control SGDD-C4-4 Color Control*	Adeo_Control_SGDD-C4-4_Color-Control.c4z*
Adeo Control SGDD-C4-4 DT8 Color Control	Adeo_Control_SGDD-C4-4_DT8_CC.c4z

Copy the drivers to the *Documents/Control4/Drivers* folder created by Composer Pro.

Using the "Search" tab in System Design, add drivers to the list of devices in your project. Tick

"Local"

Version: 3102

*this driver is to be used in conjunction with the Adeo Control SGDD-C4-4 Single Dim-Light Driver (Adeo_Control_SGDD-C4-4_Single_Dimmable_Light.c4z) see p. 36.

11. Uses of color control drivers

Let's try to give some indications for use for the respective drivers:

One Connection for each function/channel/slider	One Connection for Multiple Functions
Adeo Control SGDD-C4-4 Color Control	Adeo Control SGDD-C4-4 DT8 Color Control
DMX <ul style="list-style-type: none"> • RGB • RGBW • Master**+RGB • Master**+RGBW • Master**+Tunable White DALI DT6 (see page 6) <ul style="list-style-type: none"> • RGB • RGBW • Master**+RGB • Master**+RGBW • Master**+Tunable White 	DALI DT8 ONLY (see page 6) <ul style="list-style-type: none"> • Master**+RGB • Master**+RGBW • Master**+Tunable White

12. Adeo Control SGDD-C4-4 Driver (Adeo_Control_SGDD-C4-4_Gateway.c4z)

System Design

Use Fade	Yes
Debug Mode	Off
Polling Interval Color (sec)	60
Polling Interval Tunable White (sec)	60
Polling Interval Brightness (sec)	60
Save actual levels as power-on (min)	OFF

USE FADE

The need to introduce the direct "set" command without the use of a ramp was necessary because some devices do not support the reception of continuous commands, typical of fade/ramping variations. In particular, these devices, if they receive unsupported commands, exhibit uncontrolled behavior and provide incorrect feedback to the physical gateway. This property affects the communication protocol used between the Control4 driver-gateway and the SGDD-C4-4:

- Yes: All commands sent from the driver to the physical gateway are fade/ramp commands with a minimum time of 100 ms.
- No: The driver sends "set" commands to the physical gateway (without fade/ramping)

Debug Mode

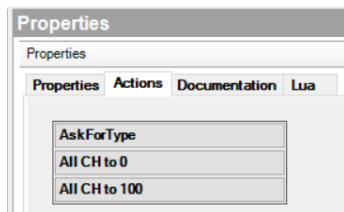
Enable or disable debugging in Lua

Polling Interval Color,

Tunable White, Brightness

"OFF, 5, 10, 30 or 60" sets the time in seconds for polling, i.e. to receive information from the gateway.

Actions

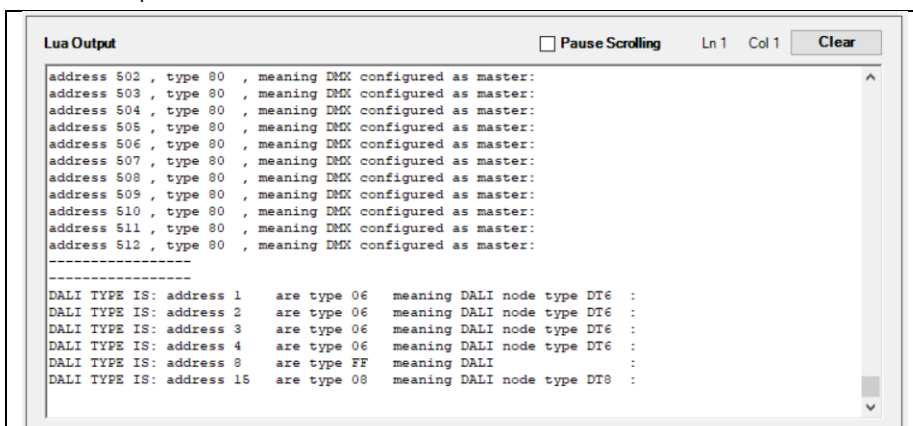


AskForType

If the "Debug Mode" is set to "On", the Driver asks the Gateway for the type and the channels "routed" on all available channels (512). The Gateway replies in the Lua tab with a list of useful information.

At the end of the list, the driver generates a report with the information of the channels discovered/routed.

Here is an example:



In this case we have channels 1, 2, 3 and 4 assigned to a DT6 device, the hw is in fact a 4-channel dimmer connected to an RGBW LED strip. Channels 5, 6 and 7 have not been assigned. Channel 8 is assigned to a DT255 device (see page 19). We know that this dimmer is set in DT8 mode and is connected to an RGBW LED strip. Channel 15 is exclusively DT8 and connected to a Tuanble White LED strip.

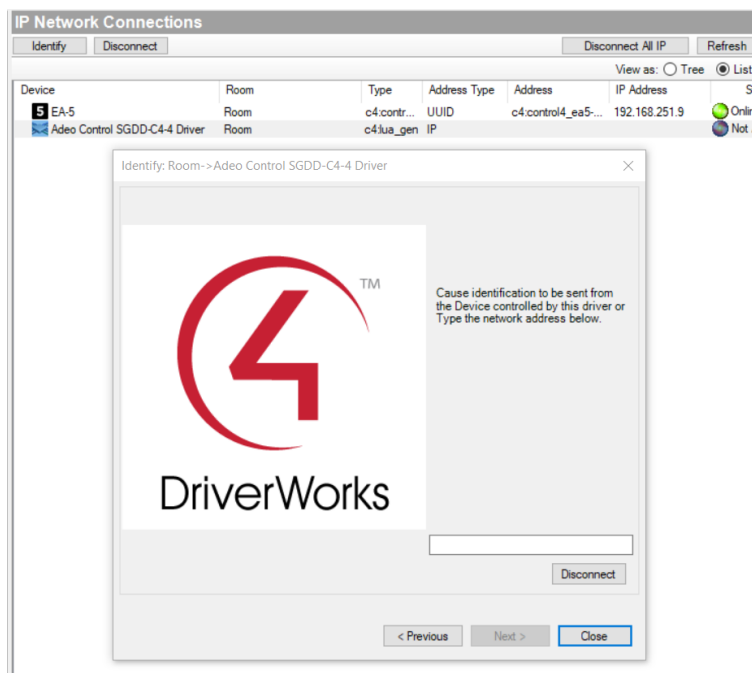
All CH to 0

The driver sends a broadcast-like command to all channels to send them to 0. It serves as a communication check between Control4 and the gateway.

All CH to 100

The driver sends a broadcast-like command to all channels to send them to 100. It serves as a communication check between Control4 and the gateway.

IP Network Connections



Type in the IP address of the gateway and click **Close**. The **Status** will change to **Online**.

Control & Audio Video Connections

Control & Audio Video Connections				
Adeo Control SGDD-C4-4 Driver				
Name	Type	Connection	Input/Output	Connected To
Control Inputs				
CH 1 DALI/DMX	Control	Adeo SGDD-C4-4	Input	RED->SGDD-C4-4 CH
CH 2 DALI/DMX	Control	Adeo SGDD-C4-4	Input	GREEN->SGDD-C4-4 CH
CH 3 DALI/DMX	Control	Adeo SGDD-C4-4	Input	BLUE->SGDD-C4-4 CH
CH 4 DALI/DMX	Control	Adeo SGDD-C4-4	Input	WHITE->SGDD-C4-4 CH
CH 5 DALI/DMX	Control	Adeo SGDD-C4-4	Input	
CH 6 DALI/DMX	Control	Adeo SGDD-C4-4	Input	
CH 7 DALI/DMX	Control	Adeo SGDD-C4-4	Input	
CH 8 DALI/DMX	Control	Adeo SGDD-C4-4	Input	Adeo SGDD DT8 RGBW Light->Adeo SGDD DT8 CH
CH 9 DALI/DMX	Control	Adeo SGDD-C4-4	Input	
CH 10 DALI/DMX	Control	Adeo SGDD-C4-4	Input	
CH 11 DALI/DMX	Control	Adeo SGDD-C4-4	Input	
CH 12 DALI/DMX	Control	Adeo SGDD-C4-4	Input	
CH 13 DALI/DMX	Control	Adeo SGDD-C4-4	Input	
CH 14 DALI/DMX	Control	Adeo SGDD-C4-4	Input	
CH 15 DALI/DMX	Control	Adeo SGDD-C4-4	Input	Adeo Control SGDD-C4-4 TW DT8 Light->Adeo SGD...
CH 16 DALI/DMX	Control	Adeo SGDD-C4-4	Input	
Adeo SGDD-C4-4 Output Devices				
Filters: All Rooms All Connections				
Device	Name	Location	Connections	
Adeo SGDD DT8 RGBW Light	Adeo SGDD DT8 CH	RGBW DT8	Adeo Control SGDD-C4-4 Driver->CH 8 DALI/DMX	
Adeo Control SGDD-C4-4 TW DT8 Light	Adeo SGDD DT8 CH	TW DT8	Adeo Control SGDD-C4-4 Driver->CH 15 DALI/DMX	
RED	SGDD-C4-4 CH	RGBW DT6	Adeo Control SGDD-C4-4 Driver->CH 1 DALI/DMX	
GREEN	SGDD-C4-4 CH	RGBW DT6	Adeo Control SGDD-C4-4 Driver->CH 2 DALI/DMX	
BLUE	SGDD-C4-4 CH	RGBW DT6	Adeo Control SGDD-C4-4 Driver->CH 3 DALI/DMX	
WHITE	SGDD-C4-4 CH	RGBW DT6	Adeo Control SGDD-C4-4 Driver->CH 4 DALI/DMX	

The Gateway driver shows all 512 available channels. Assign channels to the Lighting Drivers (drag and drop).

The first 64 channels can be DALI/DMX. From 65 -> 512 DMX only.

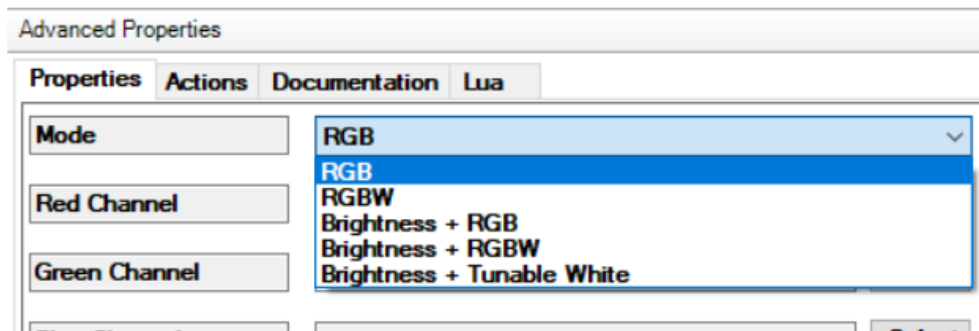
See example on p. 21.

13. Adeo Control SGDD-C4-4 Color Control (Adeo_Control_SGDD-C4-4_Color-Control.c4z)

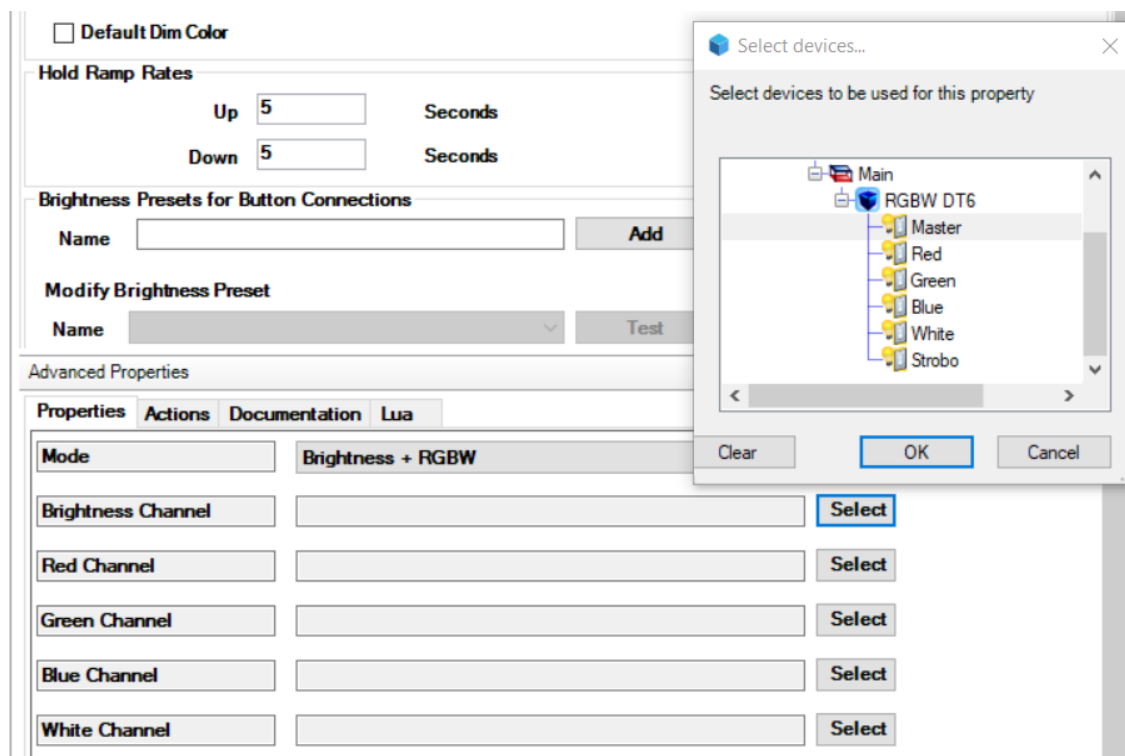
After Control4 announced the new interface for color control in lighting, Adeo Control has also developed a new driver capable of supporting the changes introduced with OS 3.3+.

The driver has no connections because it actually controls the other drivers (Adeo_Control_SGDD-C4-4_Single_Dimmable_Light.c4z) in the project. This driver is suitable for the DMX and DALI DT6 bus.

System Design – Advanced Properties



From the **Mode** menu, select the type of load used. The fields of their colors will change accordingly.



Clicking on **Select** will show all the drivers available to the control in the project.

Assign the respective channels to gain control over OS 3.3+. For the connections of the individual drivers see page 34.

The advantage is that you don't need to redo the programming once you switch to OS 3.3+

Logging

Log Level	Off
Log Mode	Print
Disable Log Interval	1 hour
Automatically disable logging after this interval of time	

Driver Info

Driver Version	002000
----------------	--------

Logging

- Log Level** Off disability logs in Lua
5 - Debug, 4 - Trace, 3 - Info, 2 - Warning, 1 - Error, 0 - Alert sets the Log Level.
Remote assistance requires 5 - Debugging
- Log Mode** Print, Log and Print and Log
- Disable Log Interval** You can set an interval within which to disable logging, which saves processing resources

Driver Info

- Driver Version** Show Driver Version

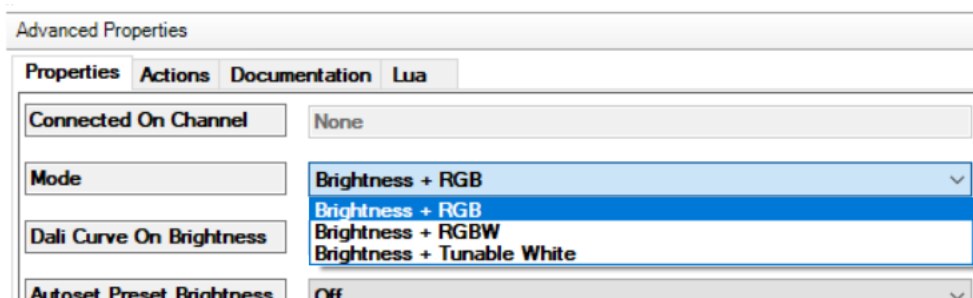
It should be noted that by its nature, this type of driver cannot manage the Brightness Rate in Advanced Lighting. It is recommended that you use the individual drivers that handle the individual functions.

14. Adeo Control SGDD-C4-4 DT8 Color Control (Adeo_Control_SGDD-C4-4_DT8_CC.c4z)

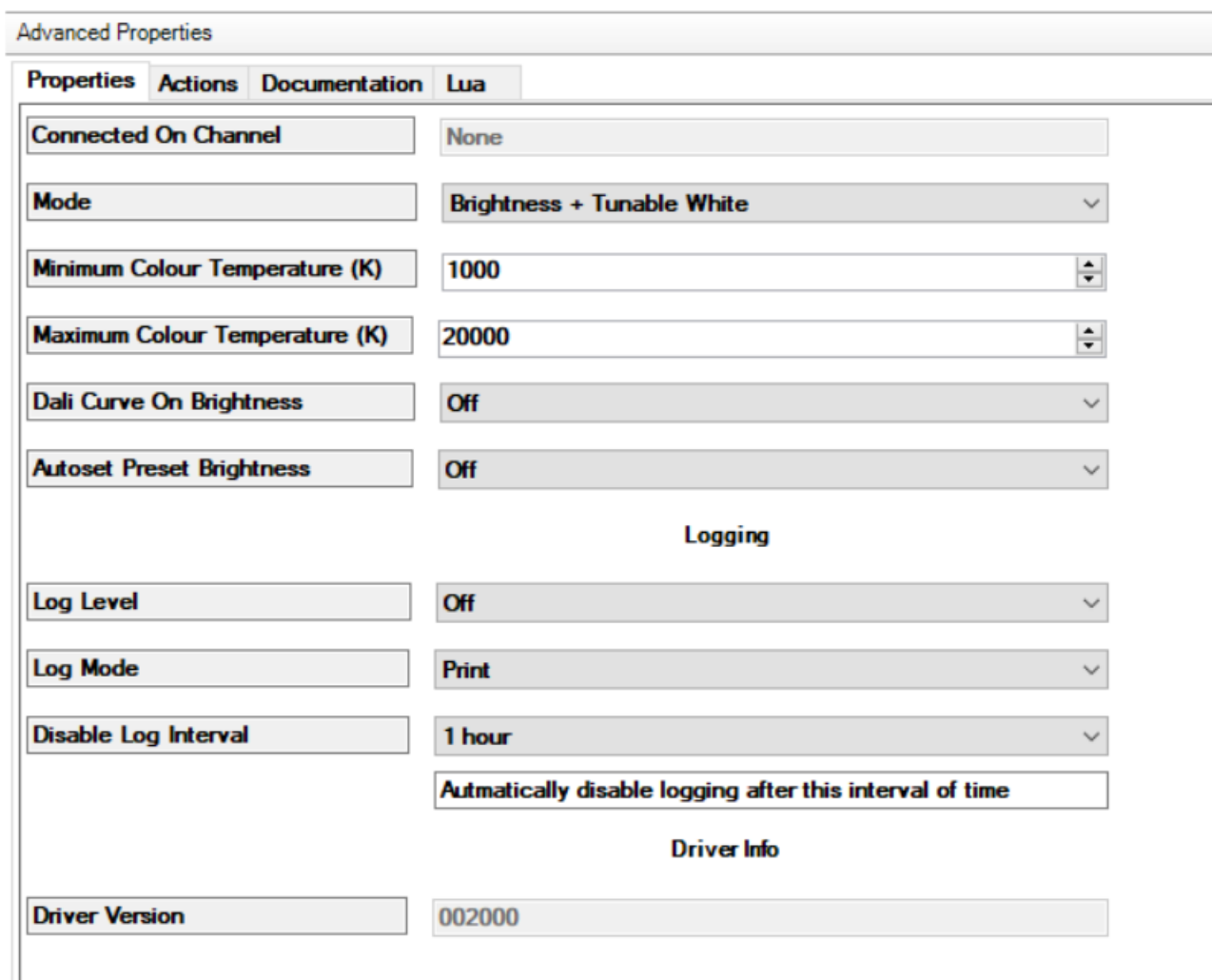
After Control4 announced the new interface for color control in lighting, Adeo Control has also developed a new driver capable of supporting the changes introduced with OS 3.3+.

This driver is dedicated for lighting fixtures (RGBW and TW) controlled by DALI DT8 devices.

System Design – Advanced Properties



From the **Mode** menu, select the type of load used. The fields of their colors will change accordingly.



Connected On Channel	Automatically show the assigned channel in Connections Only in Brightness + Tunable mode
Min Temperature In Kelvin	Set the minimum Kelvin value
Max Temperature In Kelvin	Set the maximum Kelvin value
DALI Curve on Brightness	Off to maintain linear dimming (DMX type) On to take advantage of the logarithmic dimming of DALI
Auto Preset on Brightness	Off to exclude the storage of the last light status before turning off On to store the last light status before turning off

Logging

Log Level	Off disability logs in Lua 5 - Debug, 4 - Trace, 3 - Info, 2 - Warning, 1 - Error, 0 - Alert sets the Log Level. Remote assistance requires 5 - Debugging
Log Mode	Print, Log and Print and Log
Disable Log Interval	You can set an interval within which to disable logging, which saves processing resources

Driver Info

Driver Version	Show Driver Version
-----------------------	---------------------

It has no particular limitations in **Advanced Lighting**.

15. Best Practices

- a. Before integration with the Control4 supervision system, it must be ensured that the lighting system is working properly. Wiring errors or hardware malfunctions can affect the programming and use of drivers.
- b. Using a diagram or a lighting project is always very useful to then reproduce the system to be controlled in System Design.
- c. We recommend that you never use a single gateway to control all 64 DALI devices provided. Due to the excessive power consumption of the individual DALI devices on the bus, it can happen that there is no proper communication. This is because the built-in power supply cannot meet the power demand of all 64 devices. It is better to provide multiple gateways.
- d. It is important to understand what type of lighting fixtures and the behavior 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 then 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 then associated with the **Adeo Control SGDD-C4-4 TW DT8 Driver**
 - vi. **DMX**, recommended even if implausible. The addressing will take away two channels then 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 advisable to consult with those who are responsible for providing lighting control devices.
- f. It is important to decide from the outset which mode to operate with (see **DALI global settings** on page 13):
 - 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. Please use the Drivers in conjunction with the **Advanced Lighting Agent**

16. Dimmer Driver with light_v2 Proxy

All these Drivers share the same **Properties** (standard) in **System Design**

Name	Device File
Adeo Control SGDD-C4-4 Color Control*	Adeo_Control_SGDD-C4-4_Color-Control.c4z*
Adeo Control SGDD-C4-4 DT8 Color Control	Adeo_Control_SGDD-C4-4_DT8_CC.c4z

Used as a dimmable light V2 driver. Supports **Advanced Lighting** and Keypad command assignment.

It should be noted that the Driver also supports **Brightness Preset for Button Connections**, for the creation of presets that can then be called up directly in **Connections**.

Brightness On Mode

☒ Preset ☐ Previous Level

Default On

Brightness Presets for Button Connections

Default On

Percent 100 0-100%

Status LED Colors ■ Active Color ■ Inactive Color

Add Preset Test

Control & Audio Video Connections

Adeo Control SGDD-C4-4 DT8 Color Control

Name	Type	Connection	Input/Output	Connected To
Control Outputs				
Top Button Link	Control	BUTTON_LINK	Output	
Bottom Button Link	Control	BUTTON_LINK	Output	
Toggle Button Link	Control	BUTTON_LINK	Output	
Adeo SGDD DT8 CH	Control	Adeo SGDD-C4-4	Output	Adeo Control SGDD-C4-4 Driver->CH 2 DALI/DMX

All of these Drivers share the same (standard) Properties in **System Design** and do not provide the color wheel in the **Navigator**

Name	Device File
Adeo Control SGDD-C4-4 RGBW DT8 Driver	Adeo_Control_SGDD-C4-4_RGBW-DT8.c4z
Adeo Control SGDD-C4-4 TW DT8 Driver	Adeo_Control_SGDD-C4-4_TW-DT8.c4z
Adeo Control SGDD-C4-4 Single Dim-Light Driver	Adeo_Control_SGDD-C4-4_Single_Dimmable_Light.c4z
Adeo Control SGDD-C4-4 RGB HSV Driver	Adeo_Control_SGDD-C4-4_RGB_HSV.c4z

Used as a dimmable light V2 driver. Supports **Advanced Lighting** and Keypad command assignment.

It should be noted that the Driver also supports **Brightness Preset for Button Connections**, for the creation of presets that can then be called up directly in **Connections**.

Dimmer Information

Brightness On Mode

Default On Brightness 100 0-100%

Brightness Presets for Button Connections

Brightness 1 0-100%

Status LED Colors ■ Active Color ■ Inactive Color

Add Preset Test

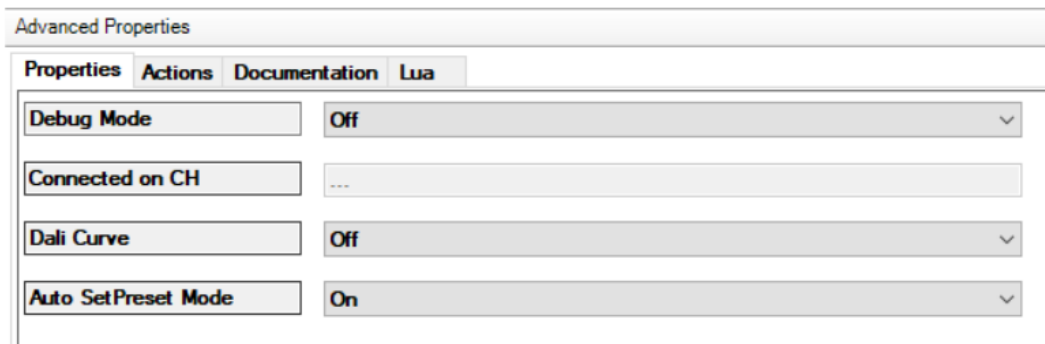
Control & Audio Video Connections

Adeo Control SGDD-C4-4 Single Dim-Light Driver

Name	Type	Connection	Input/Output	Connected To
Control Outputs				
Top Button Link	Control	BUTTON_LINK	Output	
Bottom Button Link	Control	BUTTON_LINK	Output	
Toggle Button Link	Control	BUTTON_LINK	Output	
SGDD-C4-4 CH	Control	Adeo SGDD-C4-4	Output	Adeo Control SGDD-C4-4 Driver->CH 1 DALI/DMX

17. Adeo Control SGDD-C4-4 Single Dim-Light Driver (Adeo_Control_SGDD-C4-4_Single_Dimmable_Light.c4z)

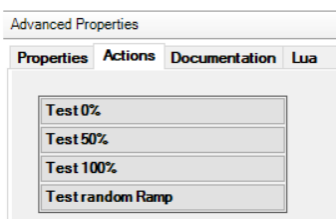
System Design – Advanced Properties



Advanced Properties	
Properties	Actions
Debug Mode	Off
Connected on CH	---
Dali Curve	Off
Auto SetPreset Mode	On

Debug Mode	Enable or disable Debugging in Lua
Connected on CH	Automatically show the assigned channel in Connections
DALI Curve	Off to maintain linear dimming (DMX type) On to take advantage of the logarithmic dimming of DALI
Auto SetPreset Mode	Off to exclude the storage of the last light status before turning off On to store the last light status before turning off

Actions



Advanced Properties	
Properties	Actions
Test 0% Test 50% Test 100% Test random Ramp	

In **Actions**, you can test the connection and the correct response of the associated channel.

18. Adeo Control SGDD-C4-4 RGBW DT8 Driver (Adeo_Control_SGDD-C4-4_RGBW-DT8.c4z)

Premise



With the introduction of DT8 management, it was necessary to develop specific drivers. They expose a single connection in **Connections**, just as DT8 provides a single channel for RGBW management.



This Driver, once imported into the project, automatically adds 5 Light Drivers (1+4):

Main -> Intensity

Slave -> Red, Green, Blue, White

In this way, we will have 5 drivers/sliders in the Control4 GUI. With OS 3.3 a new driver will be released that will have only one driver/slider.

System Design – Advanced Properties

Advanced Properties	
Properties	Actions Documentation Lua
Connected On Channel	None
Color Settings	
Current Intensity	0
Current Color	 R: 0 G: 0 B: 0
Preset Color	 R: 255 G: 255 B: 255
Current White	0
Options	
Dali Curve	Off
Intensity Autoset Preset	Off
Color Autoset Preset	Off
Logging	
Log Level	Off
Log Mode	Print
Disable Log Interval	1 hour
Automatically disable logging after this interval of time	
Driver Info	
Driver Version	002000

Connected On Channel

Automatically show the assigned channel in **Connections**

Color Settings

Current Intensity

Sends and receives the intensity value. Click Set to submit the value

Current Color

Send and receive the color value. Click Set to submit the value

Preset Color

Set the color preset on power on

Current White

Send and receive White's value. Click Set to submit the value

Options

DALI Curve

Off to maintain linear dimming (DMX type)

On to take advantage of the logarithmic dimming of DALI

Intensity Autoset Preset

Off to exclude the storage of the last light status before turning off

On to store the last light status before turning off

Color Autoset Preset

Off to exclude the storage of the last color state before turning off

On to store the last color state before power off

Logging

Log Level

Off disability logs in Lua

5 - Debug, 4 - Trace, 3 - Info, 2 - Warning, 1 - Error, 0 - Alert sets the Log Level.

Remote assistance requires **5 - Debugging**

Log Mode

Print, Log and **Print and Log**

Disable Log Interval

You can set an interval within which to disable logging, which saves processing resources

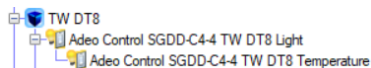
Driver Info

Driver Version

Show Driver Version

19. Adeo Control SGDD-C4-4 TW DT8 Driver (Adeo_Control_SGDD-C4-4_TW-DT8.c4z)

Premise



With the introduction of DT8 management, it was necessary to develop specific drivers. They expose a single connection in **Connections**, just as DT8 provides a single channel for tunable white (TW) management.

This Driver, once imported into the project, automatically adds 2 Light Drivers (1+1):

Main -> Intensity

Slave -> Temperature

In this way, we will have 2 drivers/sliders in the Control4 GUI. With OS 3.3 a new driver will be released that will have only one driver/slider.

System Design – Advanced Properties

Advanced Properties	
Properties	Actions Documentation Lua
Connected On Channel	None
Min Temperature In Kelvin	2200
Max Temperature In Kelvin	6500
Dali Curve	Off
Intensity Autoset Preset	Off
White Temperature Autoset	Off
Logging	
Log Level	Off
Log Mode	Print
Disable Log Interval	1 hour
Automatically disable logging after this interval of time	
Driver Info	
Driver Version	002000

Connected On Channel	Automatically show the assigned channel in Connections
Min Temperature In Kelvin	Set the minimum Kelvin value
Max Temperature In Kelvin	Set the maximum Kelvin value
DALI Curve	Off to maintain linear dimming (DMX type) On to take advantage of the logarithmic dimming of DALI
Intensity Auto Preset	Off to exclude the storage of the last light status before turning off On to store the last light status before turning off
White Temperature Autoset	Off to exclude the storage of the last temperature status before switching off On to store the last temperature status before switching off

Logging

Log Level	Off disability logs in Lua 5 - Debug, 4 - Trace, 3 - Info, 2 - Warning, 1 - Error, 0 - Alert sets the Log Level. Remote assistance requires 5 - Debugging
Log Mode	Print, Log and Print and Log
Disable Log Interval	You can set an interval within which to disable logging, which saves processing resources

Driver Info







Driver Version	Show Driver Version
-----------------------	---------------------

20. Adeo Control SGDD-C4-4 RGB HSV Driver (Adeo_Control_SGDD-C4_RGB_HSV.c4z)

Premise



The Driver allows you to have the RGB color variation on a single slider. This image should simulate the behavior from 0% to 100% of an RGB strip, where at 0% we will have dark, at 1% we will have red and at 100% red again.

1%		50%	
17%		67%	
33%		83%	

Brightness Presets for button Connections

Brightness Presets for Button Connections

Brightness 0-100%

Status LED Colors

Active Color

Inactive Color

Add Preset

Test

System Design – Advanced Properties

Advanced Properties

Properties

Actions

Documentation

Lua

Debug Mode

Off

Red Connected on CH

...

Green Connected on CH

...

Blue Connected on CH

...

Debug Mode Enable or disable Debugging in Lua

XXX Connected on CH Automatically show the assigned channel in **Connections**

Actions

Advanced Properties

Properties

Actions

Documentation

Lua

Test 0%

Test 50%

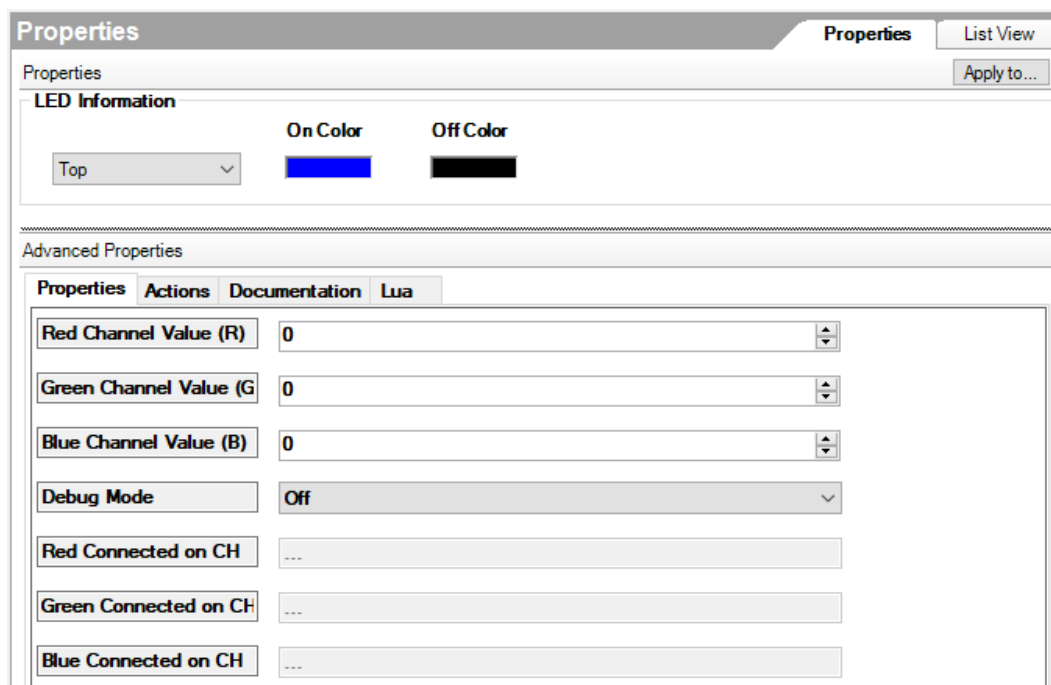
Test 100%

Test random Ramp

In **Actions**, you can test the connection and the correct response of the associated channel.

21. Adeo Control SGDD-C4-4 Switch RGB Driver (Adeo_Control_SGDD-C4-4_SW_RGB.c4z)

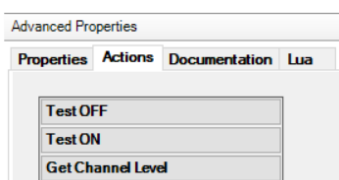
System Design



Used as a **non-dimmable** light V2 driver. Supports Advanced Lighting and Keypad command assignment.

XXX Channel Value	Select the value combination to get the desired RGB color
Debug Mode	Enable debugging in Lua
XXX Connected on CH	Automatically show the assigned channel in Connections

Actions



In **Actions**, you can test the connection and the correct response of the associated channel.

22. Adeo Control SGDD-C4-4 Relay Driver (Adeo_Control_SGDD-C4-4_Relay.c4z)

System Design

Properties

PropertiesList View

Properties

Properties

Actions

Documentation

Lua

Relay 1 is on DMX CH:

...

Relay 2 is on DMX CH:

...

Relay 3 is on DMX CH:

...

Relay 4 is on DMX CH:

...

Relay 5 is on DMX CH:

...

Relay 6 is on DMX CH:

...

Debug Mode

Off

XXX Connected on CH

Automatically show assigned channel in Connections

Debug Mode

Enable debugging in Lua

Connections

Assign channels and then Drag and Drop Relay Outputs to the motorizations.

Control & Audio Video Connections				
Adeo Control SGDD-C4-4 Relay Driver				
Name	Type	Connection	Input/Output	Connected To
Control Outputs				
SGDD Relay L1	Control	RELAY	Output	
SGDD Relay L2	Control	RELAY	Output	
SGDD Relay L3	Control	RELAY	Output	
SGDD Relay L4	Control	RELAY	Output	
SGDD Relay L5	Control	RELAY	Output	
SGDD Relay L6	Control	RELAY	Output	
SGDD-C4-4 Relay 1 CH	Control	Adeo SGDD-C4-4	Output	
SGDD-C4-4 Relay 2 CH	Control	Adeo SGDD-C4-4	Output	
SGDD-C4-4 Relay 3 CH	Control	Adeo SGDD-C4-4	Output	
SGDD-C4-4 Relay 4 CH	Control	Adeo SGDD-C4-4	Output	
SGDD-C4-4 Relay 5 CH	Control	Adeo SGDD-C4-4	Output	
SGDD-C4-4 Relay 6 CH	Control	Adeo SGDD-C4-4	Output	
RELAY Input Devices				
Filters: All Rooms All Connections				
Device	Name	Location		
Generic 2 relay blind	Up Relay	Room 2		
Generic 2 relay blind	Down Relay	Room 2		
Software Thermostat	Heating	Room 2		
Software Thermostat	Cooling	Room 2		
Software Thermostat	Fan	Room 2		
Software Thermostat	Humidify	Room 2		
Software Thermostat	Dehumidify	Room 2		
Garage Door	Open-Close	Room 2		

For more info:

www.adeogroup.it

info@adeogroup.it