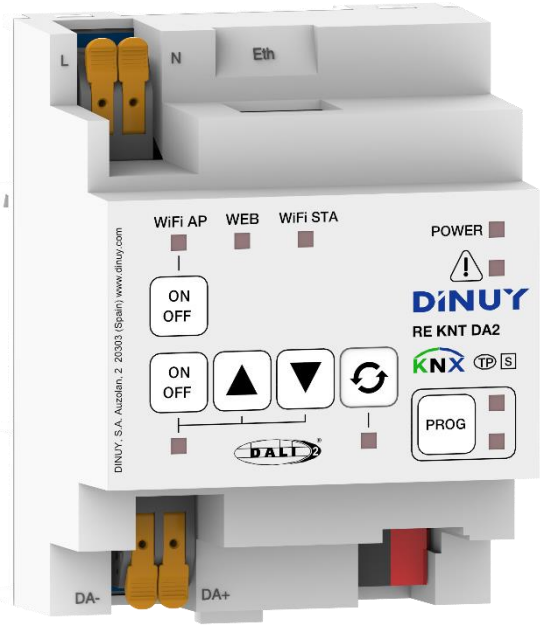
1 CHANNEL KNX / DALI GATEWAY

RE KNT DA2



USER MANUAL

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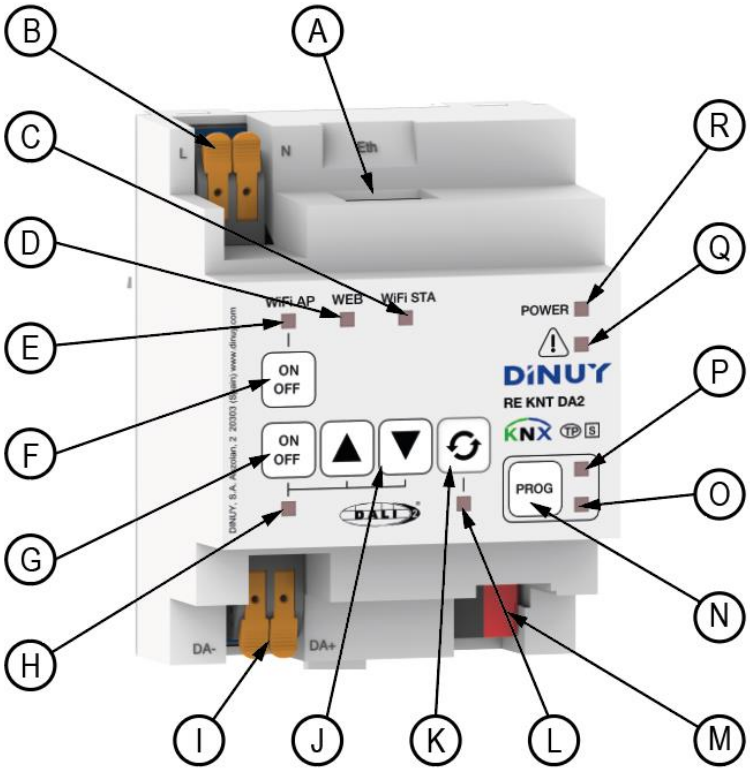
INTRODUCTION

Description

- The KNX/DALI Gateway is a KNX-DALI interface (Single-Master DALI-2 Controller) that allows control, dimming and supervision of up to 64 ECGs in up to 16 groups (16 DALI groups and 64 individual groups) of a DALI bus through KNX communication objects, which makes it possible to integrate the DALI system into a building automation installation.
- Its main functions are:
    - Generic ECG control using universal DALI commands.
    - Capacity of up to 64 DALI ECGs in total.
    - Embedded Web Server, with Ethernet and WiFi connectivity.
    - Control of ECGs by groups (16 DALI groups and 64 individual groups).
    - Replacement of 1 DALI ECG with automatic readdressing.
    - Customizable light dimming through limits and times.
    - Selection of logarithmic or linear dimming curve.
    - Support for colour ECGs (type DT8) with RGB, RGBW and colour temperature (Tc) functionality.
    - Lock function.
    - 16 Scenes and 6 Sequences with up to 8 Steps.
    - Energy Saving Mode to reduce the consumption of DALI ECGs by controlling the power supply of the output groups.
    - Detection and notification of ECG or Lamp errors.
- The KNX/DALI Gateway allows the DALI Bus to be integrated into a KNX System, enabling the control of DALI Luminaires in a KNX System. Additionally, this device converts switching and dimming orders from KNX into DALI telegrams and converts information about the status of the DALI luminaires into KNX telegrams.
- It has 1 DALI output channel, capable of controlling up to 64 ECGs in 16 different groups.
- It is a Single-Master DALI control device, not Multi-Master, therefore it should only be used in DALI installations with ECGs and not with other DALI control units on the same line (sensors, motion detectors, etc.).
- DALI power supply built into the Gateway. No external DALI power supply required or supported.
- Self-protection in case of short circuit on the DALI Bus: if a DALI short circuit occurs and persists for more than 600ms, the DALI power is disconnected for 10s. Afterwards, the DALI power is activated again. If the short circuit continues, the process is repeated.
- Allows the assignment of the same ECG to more than one DALI Group.
- DALI commissioning and maintenance tasks (manual control of ECGs or Groups and display of operating hours or errors) through the Web Server integrated into the Gateway. This Web Server is accessible by a PC, laptop or Tablet via:
    - Ethernet with DHCP or fixed IP assignment (default)
    - Local WiFi network (Station)
    - WiFi Access Point (AP) Network
- Requires power from the KNX Bus and the 110V-230V 50/60Hz network. Without either of them, the Gateway is not functional.
- For the configuration, and the rest of the KNX commissioning, the ETS® Software is necessary.
- DIN-rail mounting, with a width of 4 modules.



The Gateway has a series of connectors, buttons and status indicator LEDs:

A: RJ45 Ethernet connector

B: Mains Power

C: WiFi Station status LED

D: WEB status LED

E: WiFi AP status LED

F: WiFi AP on/off key

G: DALI luminaires switching key in Broadcast

H: On/Off status LED DALI luminaires in Broadcast

I: DALI output connector

J: DALI luminaires dimming keys in Broadcast mode

K: Quick replacement key for 1 damaged DALI luminaire

L: Status LED quick replacement of 1 DALI Luminaire

M: KNX Bus Connector

N: KNX Programming Button

O: LED ON Red in KNX programming mode

P: LED flashing Green indicates it is being configured

Q: LED ON Red indicates short circuit in the DALI Bus

R: LED ON Green indicates correct KNX power

Compatible ECGs

- The KNX/DALI Gateway can control ECGs certified with the DALI logo. In particular, it is designed to be compatible with types 0, 4, 6, 7 and 8 of the DALI device type classification:

Device type	Particular requirements for control gear	Defined in
0	Fluorescent lamps	IEC 62386-201
1	Self-contained emergency lighting	IEC 62386-202
2	Discharge lamps (excluding fluorescent lamps)	IEC 62386-203
3	Low voltage halogen lamps	IEC 62386-204
4	Supply Voltage controller for incandescent lamps	IEC 62386-205
5	Conversion from digital into D.C. voltage	IEC 62386-206
6	LED modules	IEC 62386-207
7	Switching function	IEC 62386-208
8	Colour control	IEC 62386-209
9	Sequencer	IEC 62386-210
10	Optical control	IEC 62386-211
11 to 127	Not defined yet	
125 to 254	Reserved for control devices	
255	Control gear supports more than one device type	

- Correct functioning cannot be assured for the rest of the ECGs. Additionally, not all ECGs with the DALI logo have the same behavior. There are certain peculiarities:
  - Upon lamp failure, certain ECGs with fluorescent lamps may cause other lamps to flash.
  - Fluorescent lamp ECGs require additional time to turn off the load if a non-immediate dimming to 0% is performed.
  - Certain specific ECG models, in the event of a DALI communication failure (short circuit or lack of power), do not switch to the dimming level configured for such circumstance; they maintain the latest dimming level established.
  - Certain lamps may have a significant ignition delay, a circumstance that must be considered when parameterizing timed actions, flashing or dimming sequences.
  - The ability to report ECG errors depends on the ECG itself, whose manufacturer must indicate in the documentation if it has such functionality.

- Some other (minor) particularities could occur depending on the ECGs and the lamps in the installation. Therefore, it is recommended that the integrator perform some prior tests to ensure compatibility.

- Important: it is recommended to use a single type of ECG within the same group as it will avoid possible control problems.

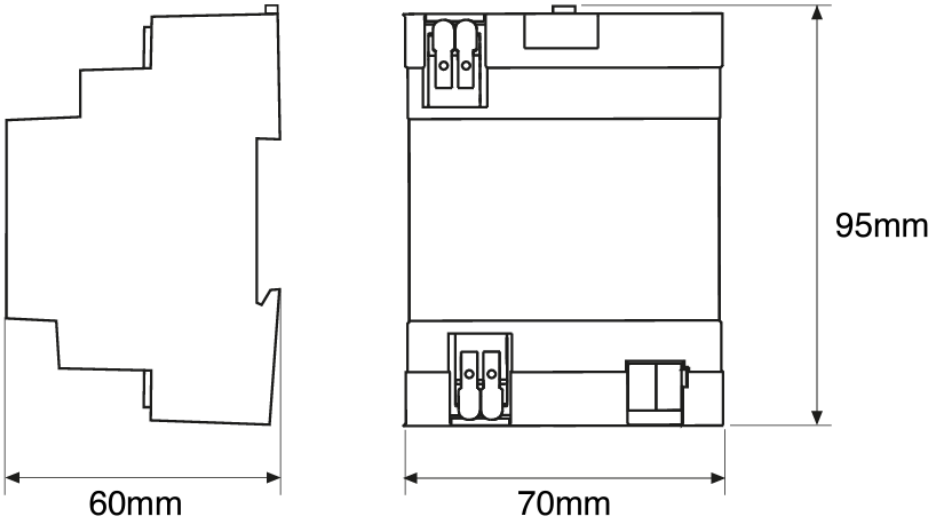
Parameterization functions

Function	ECG	Group	Broadcast (channel)
Dimming	√	√	X
Minimum and maximum dimming value	√	√	√
Dimming speed adjustment	√	√	X
Adjustable dimming curve	√	√	√
Commutation	√	√	√
Allow turning on when dimming	√	√	X
Allow power on with value	√	√	√
Allow shutdown with value	√	√	√
Brightness level when off	√	√	√
Soft start time	√	√	√
Soft shutdown time	√	√	√
Power mode setting	√	√	√
DALI failure	√	√	√
Fallo ECG failure	√	√	X
Lamp failure	√	√	X
Colour Temperature (Tc)	√	√	√
RGBW Colour	√	√	√
Lock function	√	√	√
Forcing function	√	√	√
Timer function	√	√	√
Scenes	√	√	X
Sequences	√	√	√
Manual control	X	X	√

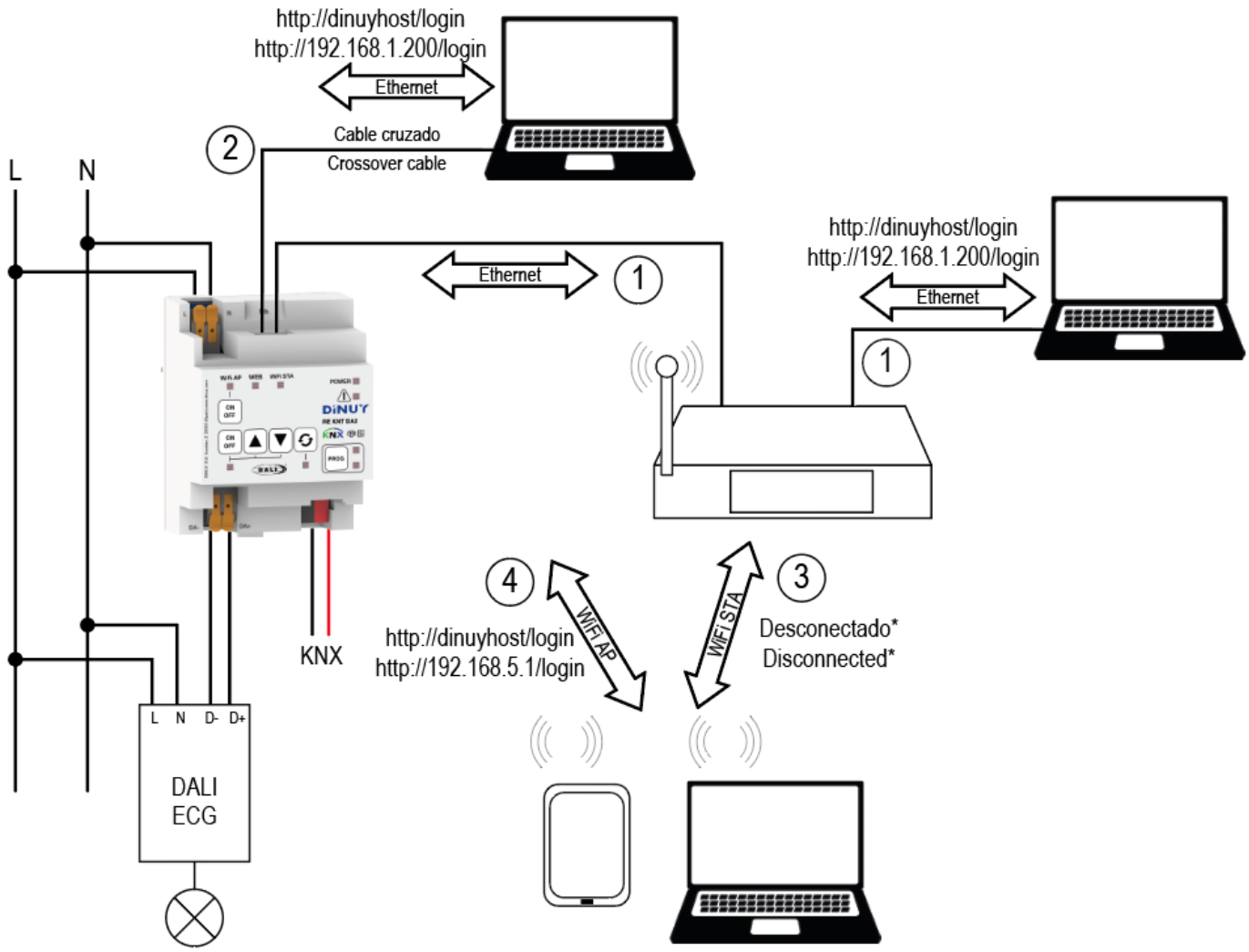
Technical Specifications

Power Supply Voltage		110V-230V~ 50/60Hz
Consumption		< 1,5W
KNX	KNX power	21..32Vcc
	KNX consumption	< 5mA
	Programming via	ETS5 or later
	KNX Medium	TP
	Commissioning	System Mode
DALI	No of outputs	1
	Type	Single-Master (valid for DT0, DT4, DT6, DT7 and DT8)
	No of ECGs	Max. 64 (DALI or DALI-2)
	No of Groups	16
	Output Voltage	12..16VDC, short circuit proof (not SELV)
	Maximum Power Supply Intensity	250mA
	Guaranteed Power Supply Intensity	150mA
	Shutdown Delay	600ms after DALI short circuit detection
	Start-up attempt	10s after DALI short circuit detection
	DALI line length	< 300m (1,5mm^2 cable section)
Connectivity		Ethernet, WiFi STA or WiFi AP
Ethernet	Type	10BaseT / 100BaseTX
	IP address assignment	By DHCP or fixed IP (by default)
	Protocol	IEEE 802.3
WiFi	Protocol	802.11 b/g/n (802.11n up to 150 Mbps)
	Frecuency	2.4 GHz
Connexions	Network	WAGO 2x4mm^2
	KNX	KNX Bus connector
	DALI	WAGO pressure terminals 2x4mm^2
	Ethernet	RJ-45
Dimensions		4 modules width (70mm)
Operating temperature		-5°C .. +45°C
Storage temperature		-30°C .. +70°C
Protection		IP20 (EN60529)
Directives		According to EMC and Low Voltage Directives
Standards		EN60669-1, 2-1 and 2-3 DALI: UNE/EN IEC62386-101:2022, UNE/EN IEC62386-103:2022
Certification		KNX and DALI-2

Dimensions



Connection diagram



Commissioning

Two different "tools" are necessary for the Gateway commissioning:

- **DALI Web Configurator:** which is accessed by connecting the PC or Tablet to the Gateway via Ethernet or WiFi. With this Configurator, the localization of ECGs, assignment of addresses and DALI groups must be carried out. It also allows maintenance work on the Luminaires.

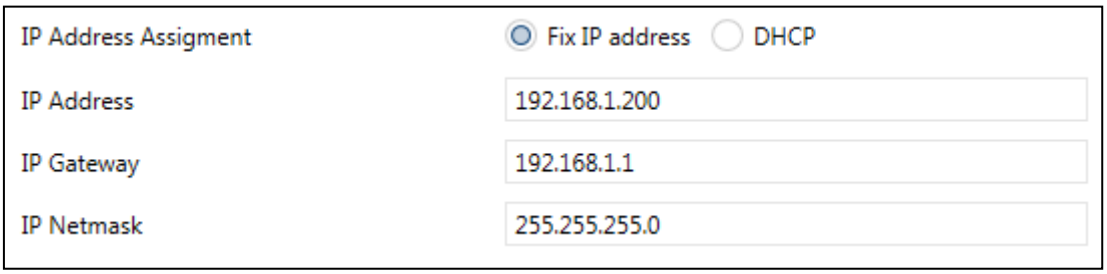
  Both the addressing of the luminaires and the assignment of Groups must be carried out using the DALI Web. Configurator, through the Web Server integrated into the Gateway itself.

  You can carry out DALI commissioning using a Tablet, Laptop or PC.

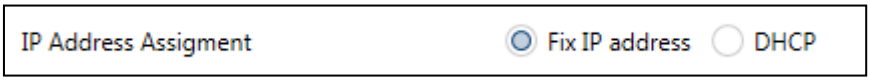
  To access the DALI Web Configurator it is necessary to connect to the IP of the Gateway.

  For this, there are different means of connection:

  • Connecting the Gateway to the LAN network. Use a standard network cable to connect the Gateway to a LAN Switch, Hub or Router. By default, the Gateway comes from the factory with a Fixed IP address. You may also need to configure the IP Mask and the default Gateway IP. This can only be configured from the ETS:

  If there is a DHCP Server on the network, the Gateway may automatically receive an IP address. To do this, initially you would have to modify the default parameterization of the Gateway through the ETS and select DHCP:

  - By directly connecting the PC, or laptop, to the Ethernet connector of the Gateway using a crossover cable.
  - Connecting the Gateway to the local WiFi network. Use a WLAN access point as a network connection.
  - By directly connecting the PC, or laptop, to the WiFi Access Point of the Gateway.

  Once the IP address has been assigned correctly, access the Gateway Website from any Web browser.

- **ETS**: for the general parameterization of the ECGs and Groups, as well as the creation of Scenes and Sequences. Requires the Gateway application program, which can be found in the ETS® Online Catalog or on our website:www.dinuy.com

Note: The use of both tools requires power from the KNX Bus and the mains 110-230V 50/60Hz.

DALI WEB CONFIGURATOR

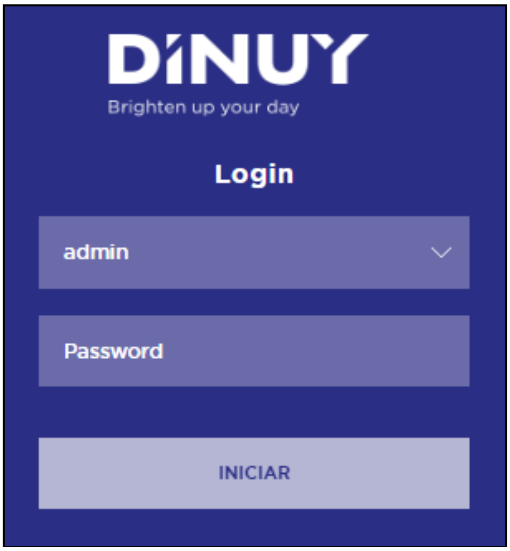
Description

The DALI Web Configurator is a "tool" embedded in the KNX/DALI Gateway that allows for the configuration and monitoring of the DALI devices through a web browser. This configurator enables you to manage the DALI installation without needing additional software, providing a user-friendly interface for commissioning and maintenance tasks:

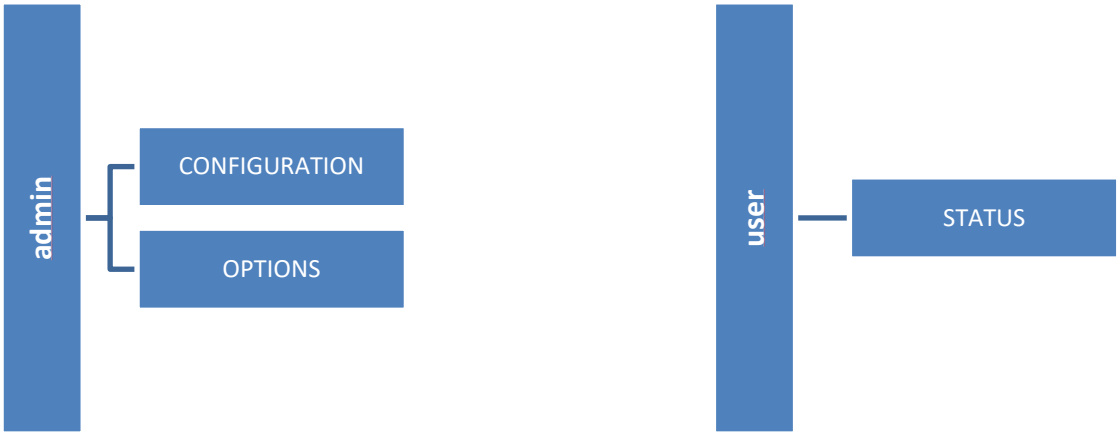
- LOGIN: to access the DALI Web Configurator, open a web browser and enter the IP address assigned to the KNX/DALI Gateway. A login page will appear. Enter the username and password to log in. The default credentials are usually provided in the device documentation: Administrator (admin) or User (user).
- CONFIGURATION: in it the DALI start-up is carried out, assigning the addresses to each of the Luminaires (ECGs) and creating the desired Groups.
- STATUS: allows you to manually control the Luminaires and view their operating hours and errors.
- OPTIONS: this tab has a series of extra functions that may be useful at a certain time.

Each of them is described below.

LOGIN



From this first tab, access is allowed, with a greater or lesser number of possibilities, to the DALI WEB Configurator:

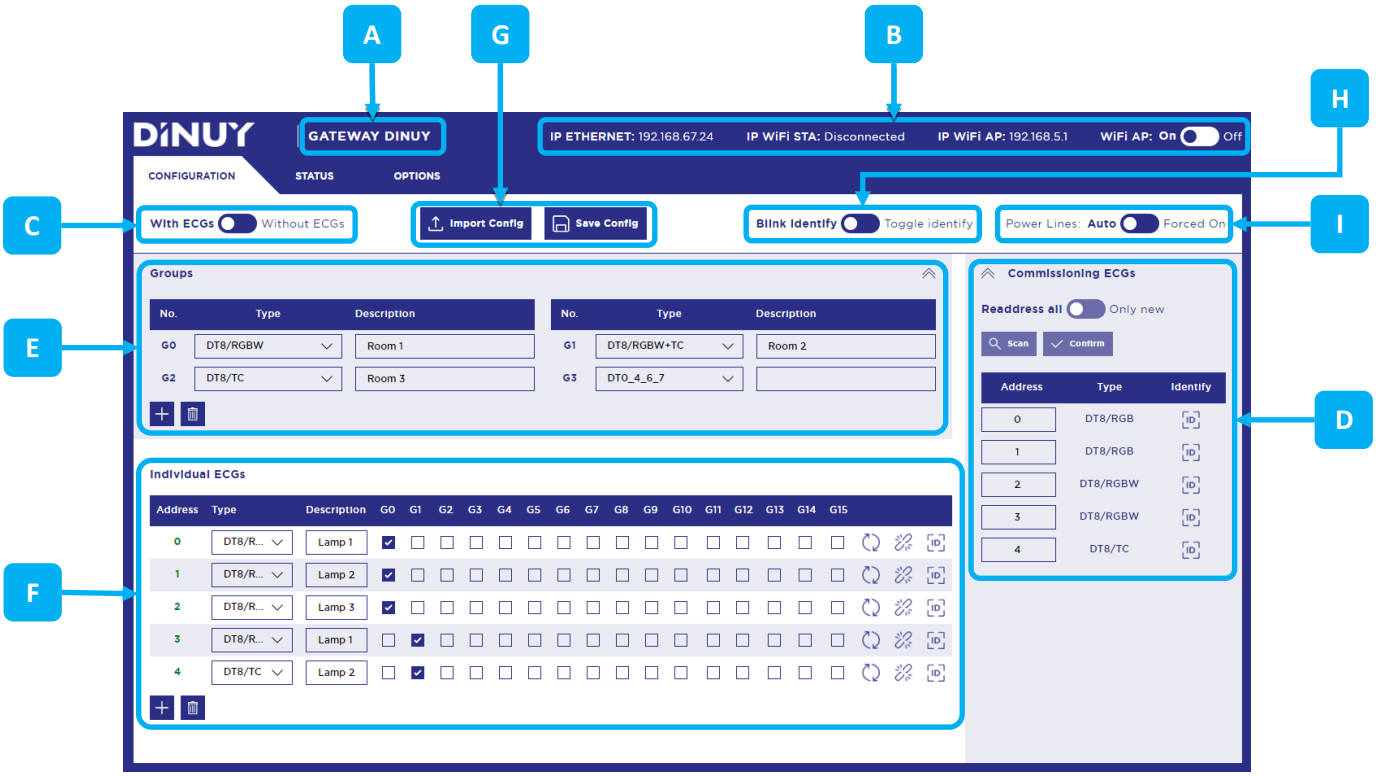


The "admin" account is intended for use by the person responsible for the DALI implementation of the installation (Integrator, Installer…), while the "user" account is intended for use by, for example, the Responsible Facility Maintenance.
In both cases, the default password is "dinuy" (without quotes). It is recommended to change it in the ETS once the Gateway configuration is done.

CONFIGURATION

Description

CONFIGURATION tab includes the following:

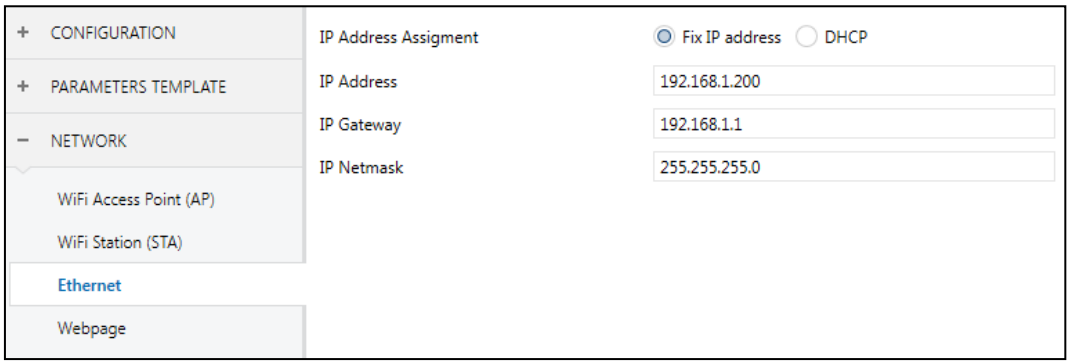


- **A:** Gateway name. It can be changed in the ETS.

Gateway name	GATEWAY DINUY

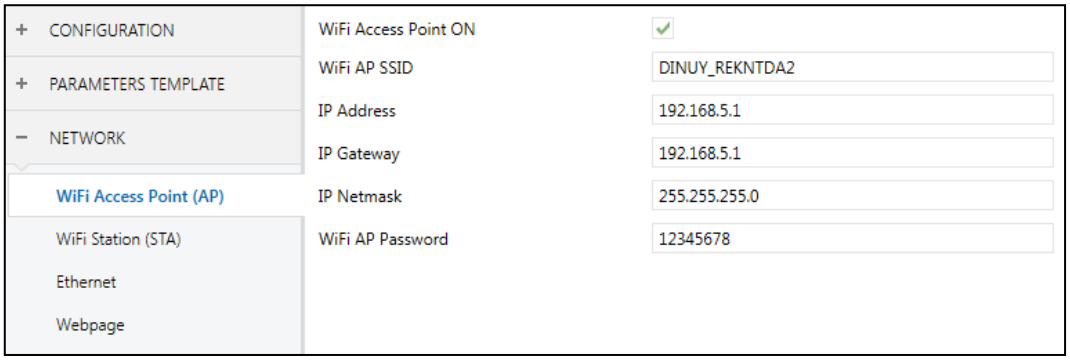
- **B:** Gateway connectivity data and control.

  o ETHERNET IP: IP address of the LAN to which the Gateway is connected. By default, this is the configuration in the ETS:



  o WiFi STA IP: IP address of the WLAN to which the Gateway is connected. By default, it is offline.

o IP WiFi AP: IP Address of the WiFi Access Point generated by the Gateway. By default, this is the configuration in the ETS:

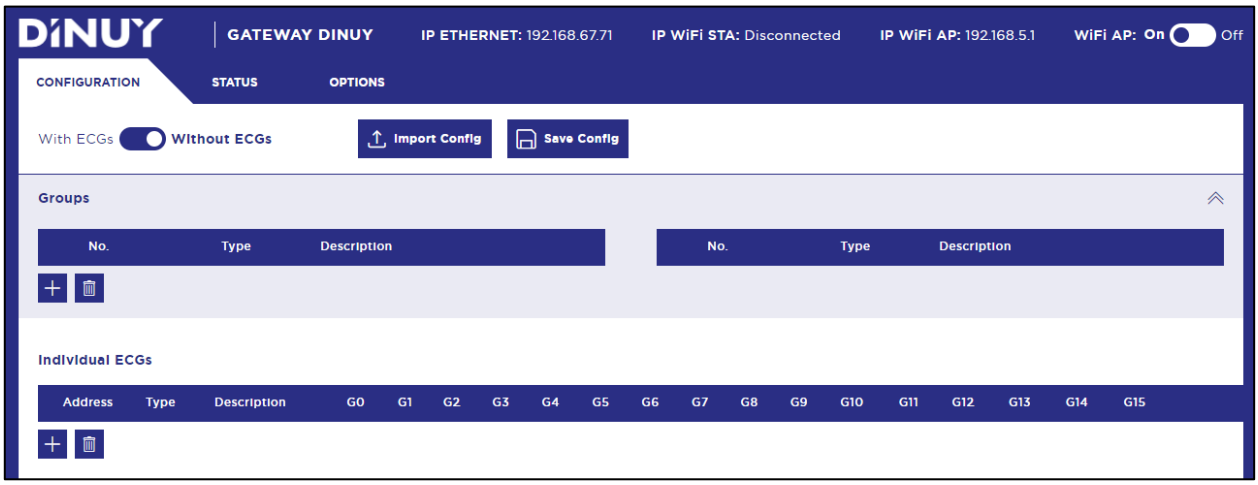


o WiFi AP: Allows you to activate/deactivate the WiFi Access Point of the Gateway.

- **C:** Allows you to select whether the project will be created initially without the Luminaires (Without ECGs), or with the Luminaires connected to the DALI Bus (With ECGs).
- **D:** Search for Luminaires and assignment of DALI addresses. This menu will only be visible when starting up with the Luminaires (With ECGs).
- **E:** Creation of DALI Groups.
- **F:** DALI Luminaires (ECGs) found and assigned address, as well as assignment to Groups.
- **G:** Allows you to view the DALI configuration of the Gateway on the screen (Import) or save (Save) the configuration displayed on the Gateway.
- **H:** When identifying the Luminaires, for assigning addresses, it allows this to be done through flashing (Blink) or through forced on/off (Toggle).
- **I:** The Gateway has the "Energy Saving" function, which allows you to disconnect, through an external Switching Actuator, the power of all the Luminaires in a Group, if all of them are off. When commissioning DALI, it is advisable to select "Forced On", in order to avoid some luminaires being forced to turn off due to this functionality. Once DALI commissioning has been completed, it is recommended that this selector be left at "Auto".

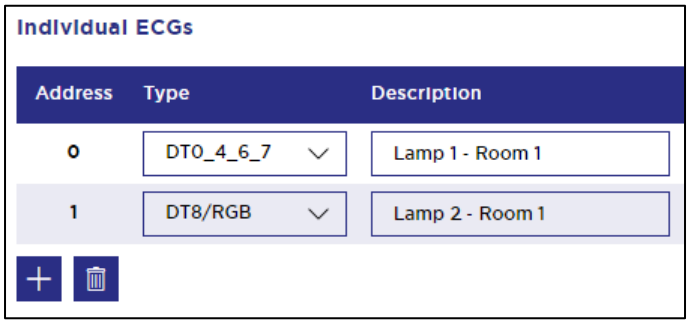
Initial configuration without the Luminaires

It is possible to carry out the DALI configuration without having the Luminaires. To do this, you simply have to select "Without ECGs" using the corresponding switch:



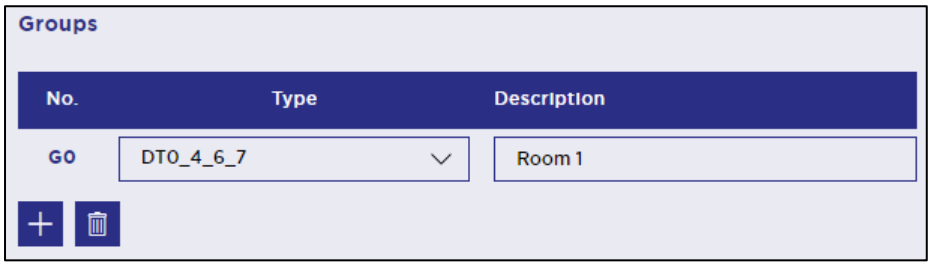
The process will be as detailed below:

Add the ECGs that will make up the project, up to a maximum of 64..



You can add a description of each ECG inside the "Description" box.

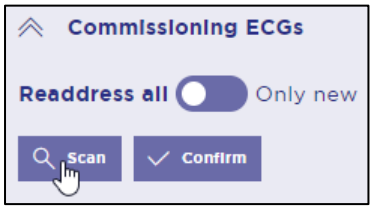
Add the Groups that will make up the project, up to a maximum of 16.
Each time "+" is pressed, 2 Groups are added automatically.
You can add a description of each Group within the "Description" box.



Set the DALI type of the Group and add a description of it in the "Description" box.

Save the settings. This is saved in the Catwalk itself.

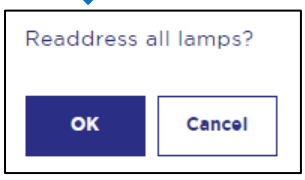
After having the DALI Luminaires, connect them to the Bus and activate "With ECGs"…



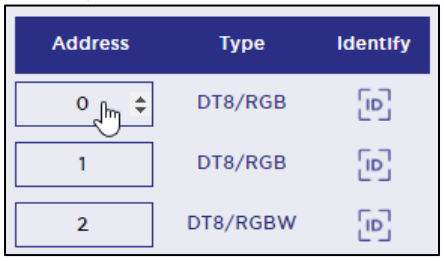
Select "Readdress all" to perform a full address lookup and remapping.

Perform a search for the ECGs connected to the DALI Bus by pressing "Scan".

Attention: this process will cause a new address assignment to be made to all the Luminaires, deleting any that may have previously been assigned.



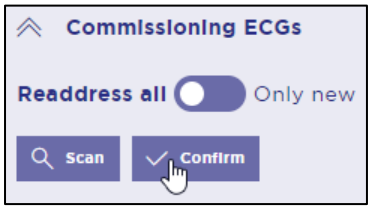
Confirm that you want to assign a new DALI address to all ECGs connected to the Bus.



Identify each Luminaire with the button ID and assign it the desired DALI address if the automatically assigned one does not match what you want.

The assignment of the DALI type (Type) is carried out automatically.

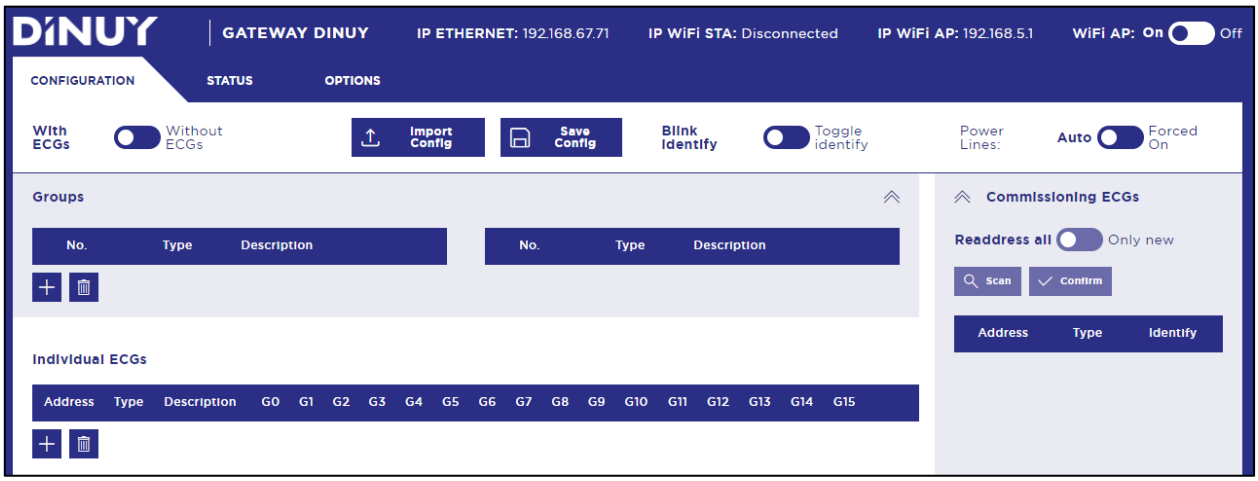
Identification can be done with a series of flashes (Blink) or by means of a manual On/Off (Toggle).



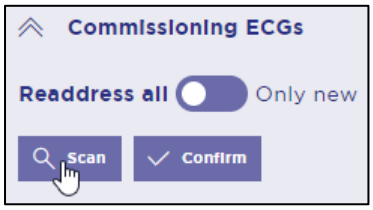
Once the desired DALI addresses have been set, confirm it. You will receive the corresponding confirmation message:

Initial Configuration with Luminaires

It is also possible to configure DALI with the Luminaires. To do this, you simply have to select "With ECGs" using the corresponding switch:



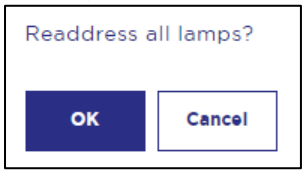
The process will be as detailed below:



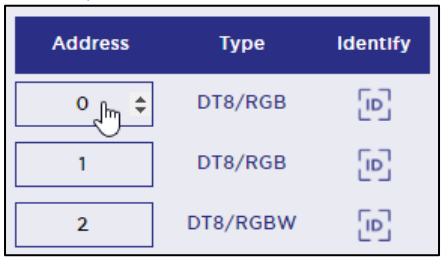
Select "Readdress all" to perform a full address lookup and remapping.

Perform a search for the ECGs connected to the DALI Bus by pressing "Scan".

Attention: this process will cause a new address assignment to be made to all the Luminaires, deleting any that may have previously been assigned.



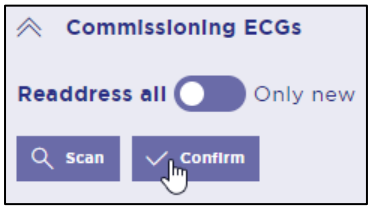
Confirm that you want to assign a new DALI address to all ECGs connected to the Bus.



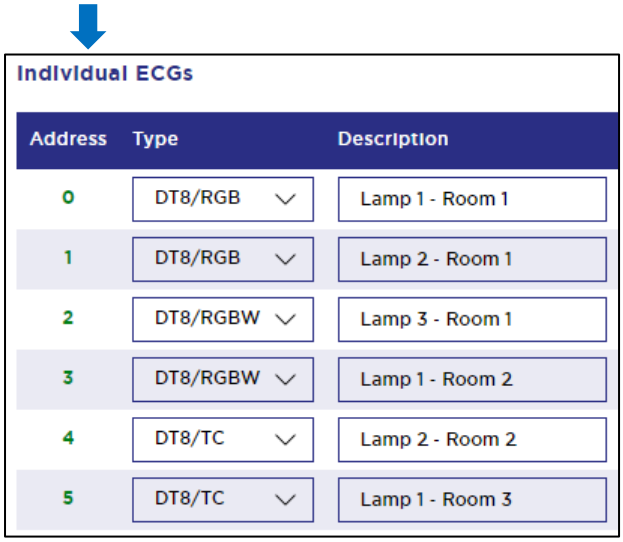
Identify each Luminaire with the button ID and assign it the desired DALI address if the automatically assigned one does not match what you want.

The assignment of the DALI type (Type) is carried out automatically.

Identification can be done with a series of flashes (Blink) or by means of a manual On/Off (Toggle).



Once the desired DALI addresses have been set, confirm it. You will receive the corresponding confirmation message:

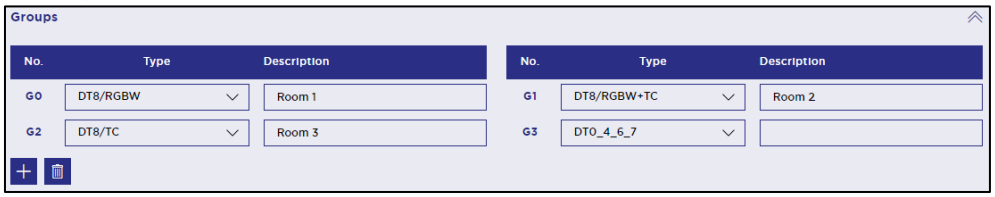


ECGs will be displayed on the left side of the screen as configured.

You can add a description of each ECG within the "Description" box.

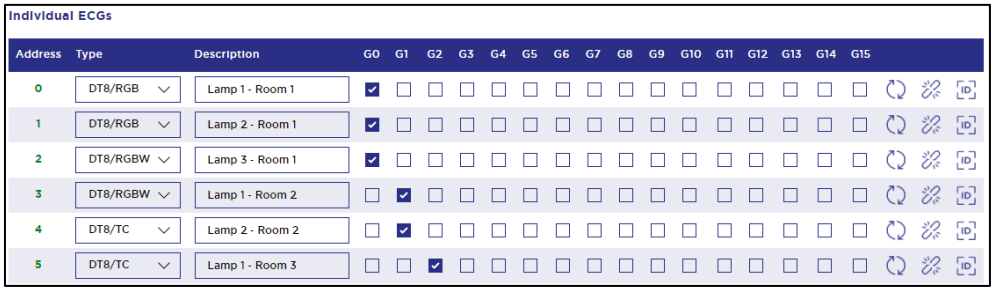
Add the Groups that will make up the project, up to a maximum of 16.

You can add a description of each Group within the "Description" box.



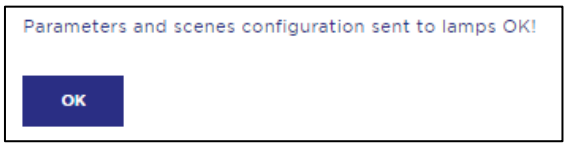
Choose the DALI type of each Group.

If ECGs of different types are to be added to the same Group, select the type with the greatest functionality: DT0_4_6_7 < DT8/TC < DT8/RGB < DT8/RGBW < DT8/RGB+TC < DT8/RGBW+TC



Select which Group, or Groups, each ECG will be included in.

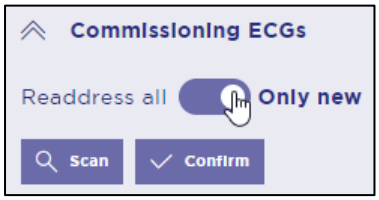
Save the settings. This configuration is saved in the Gateway itself.



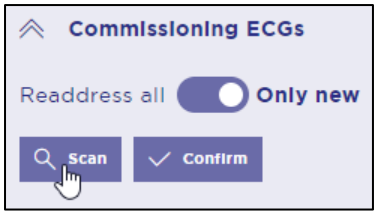
Both the Group configuration and the ECG Parameters and Scenes, or Groups, enabled and configured in the ETS previously are sent to the lamps. If no configuration has been previously uploaded from the ETS, the luminaires will not receive this information.

Add new Luminaires

Once the first start-up has been carried out, if a new Luminaire, or several, is added, the process to follow is as follows (with the Luminaires):

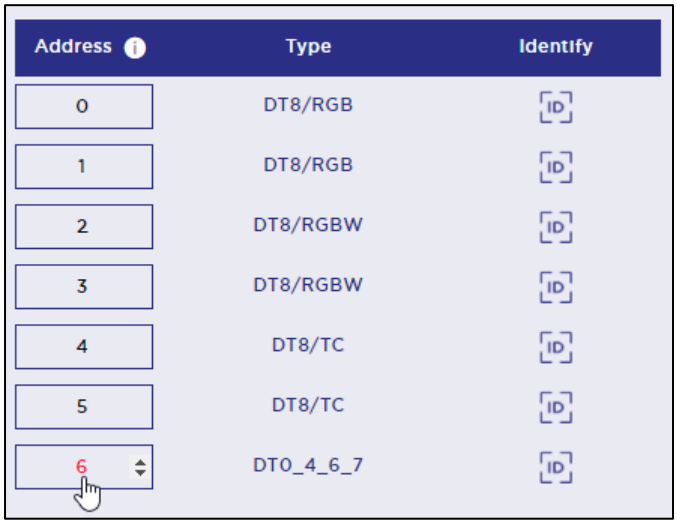


Select "Only new" to search only for ECGs that have not been detected previously.

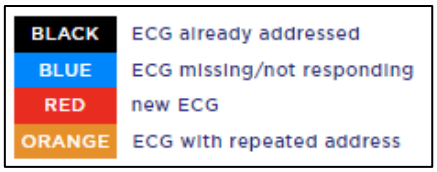


Search for new Luminaries.

Confirm that you want to search for new Luminaires connected to the DALI Bus.



The new Luminaires found will be displayed showing their address in red:



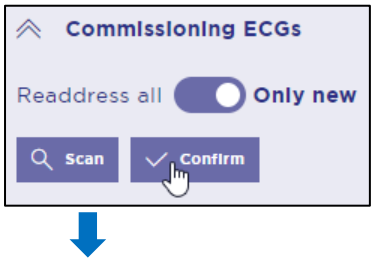
Address Color:

BLACK: the ECG is addressed

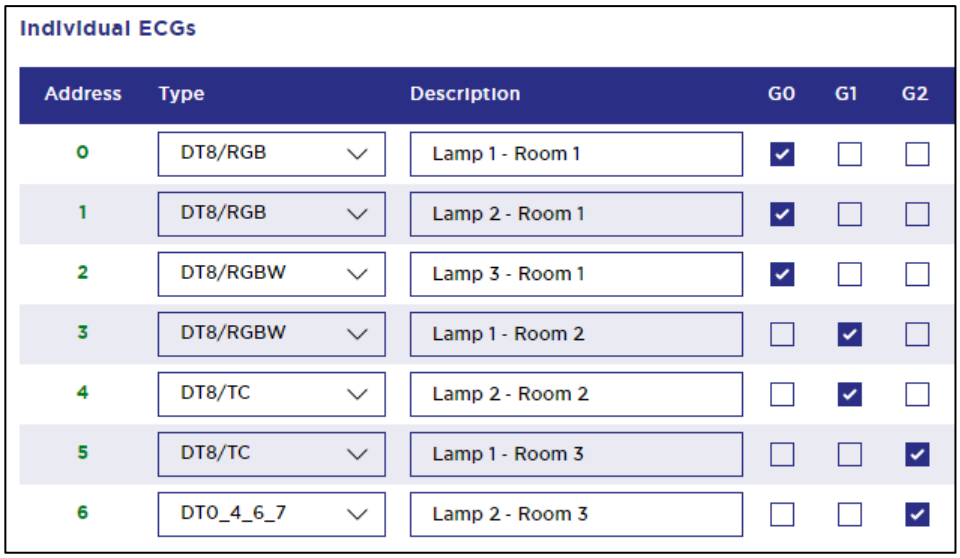
BLUE: ECG does not respond

RED: new ECG found

ORANGE: ECG with repeated address



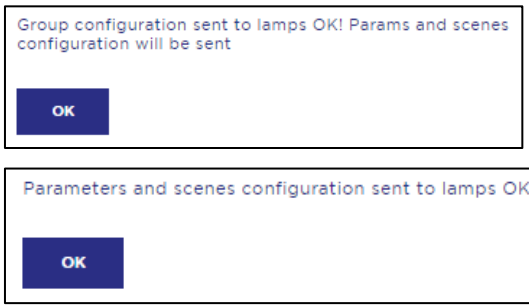
Once the new ECG (red) has been found, and with the desired address, it will simply be necessary to confirm it...



… "Individual ECGs" will now be displayed in the left menu.

It will simply be necessary to indicate a description and assign one, or several, groups.

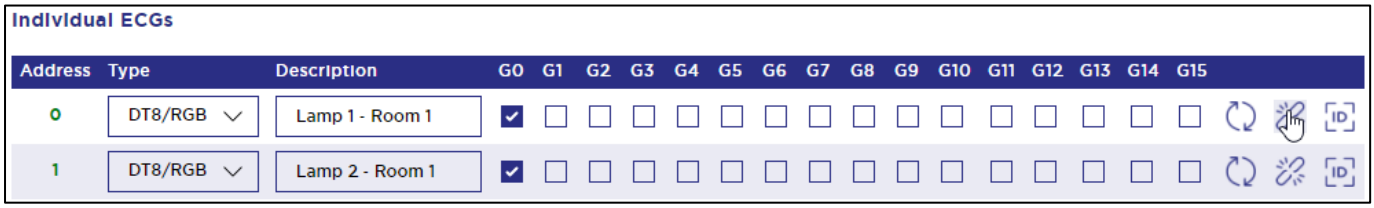
Save the settings. This configuration is saved in the Gateway itself.



Both the Group configuration and the ECG Parameters and Scenes, or Groups, enabled and configured in the ETS previously are sent to the lamps. If no configuration has been previously uploaded from the ETS, the luminaires will not receive this information.

Deleting a DALI address

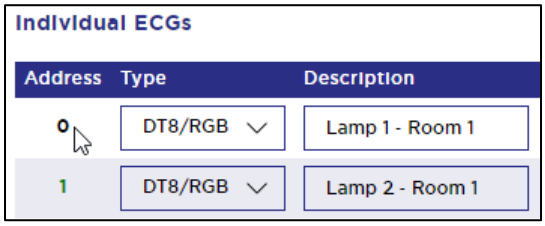
If by mistake, or for some other reason, a DALI address has been assigned to a Luminaire and you wish to delete it, follow the following process:



Press the delete button of the ECG whose DALI address you want to delete

Confirm address deletion

You will receive a confirmation that the DALI address has been deleted…



…and the colour of the DALI address will change from green to black

ECG replacement

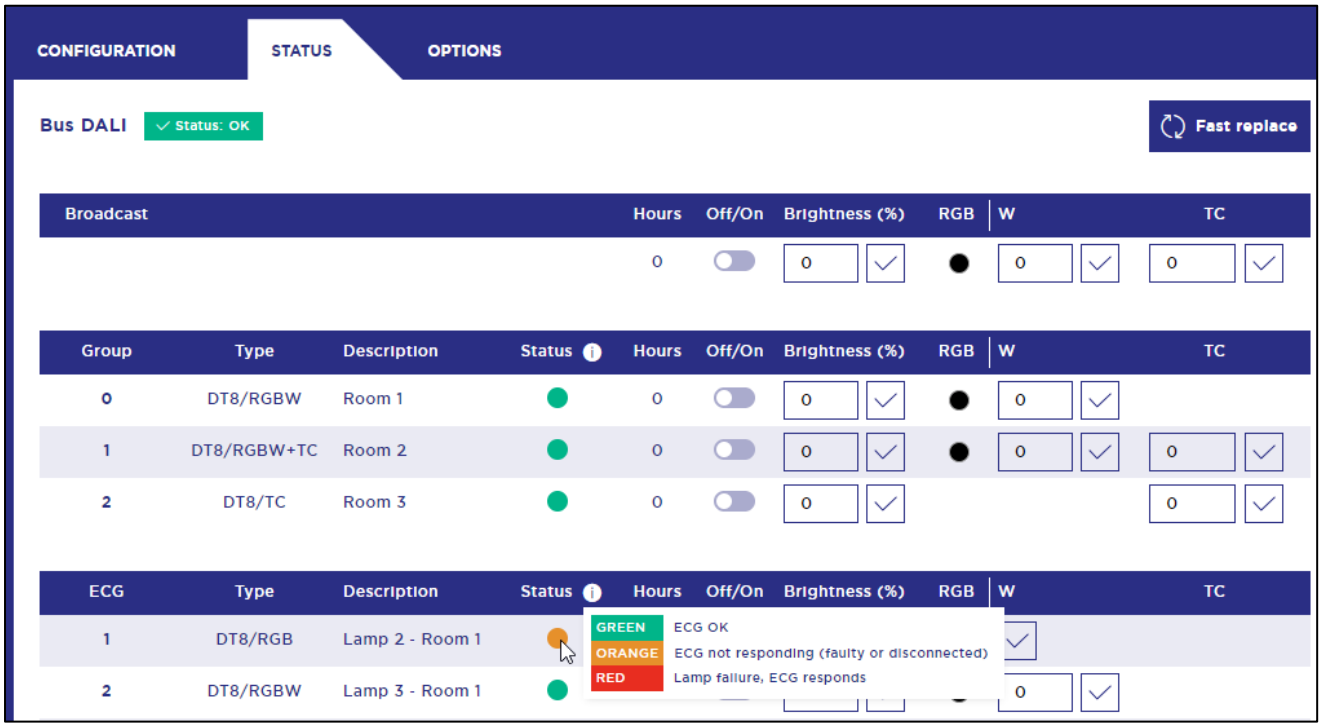
When a DALI segment is started, the short address, group assignment (if applicable) and other configuration data are programmed into the ECG's internal memory. If you need to replace an ECG due to an error, you must program this data into the new device.

The Gateway offers a function that allows you to replace ECGs quickly and easily. This quick replacement can be carried out from the DALI Web Configurator or directly from the device itself.

To quickly exchange a faulty ECG there are 3 different methods described below. However, if there are multiple defective devices, it is necessary to identify the ECGs and use the appropriate method (Method 1). Please note that quick swapping is only possible for devices of the same type.

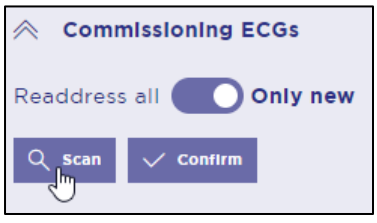
Method 1: Replacement of 1 or more ECGs

With this first method, it is possible to replace 1 single ECG, or more than one.

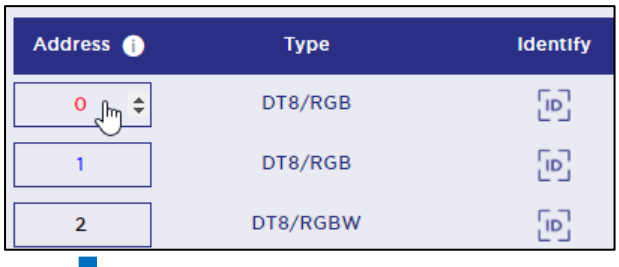


A message shows that the ECG is faulty

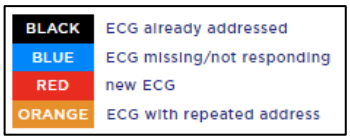
Connect the new ECG to the DALI bus

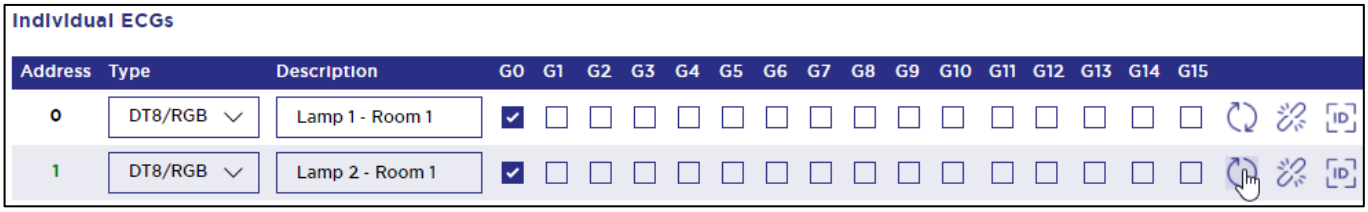


Keep the switch on "Only new" selected and then click "Scan" button to look for new ECGs

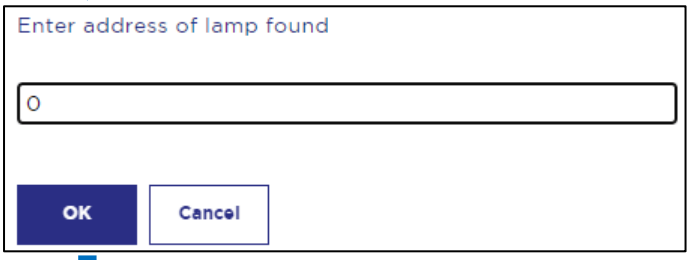


The new ECG, which will replace the faulty one, will appear with its DALI address in red

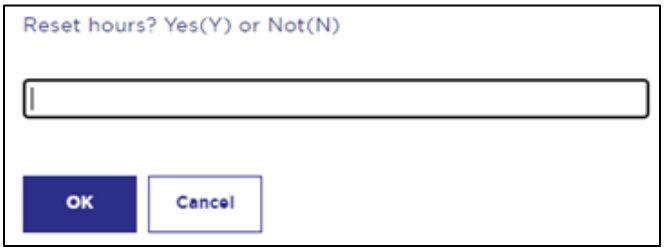




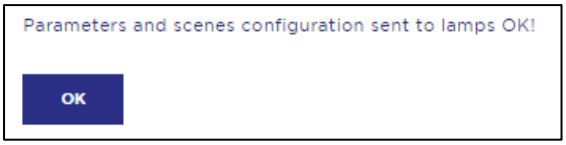
Click the replacement button del ECG a reemplazar

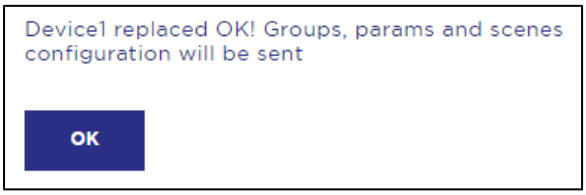


Enter the DALI address of the new ECG that will replace the defective one



Confirm if you want (Y) or do not want (N) to delete the operating hours of the Luminaire you are going to replace

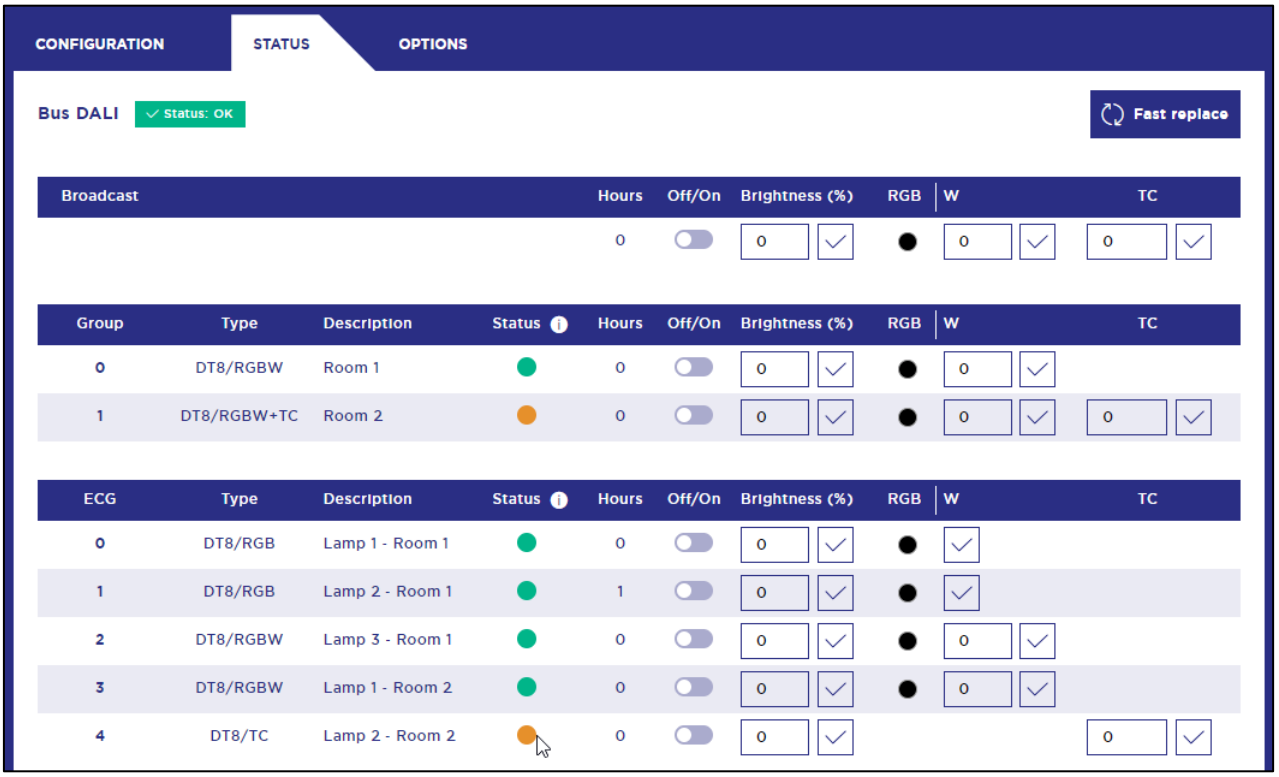




Both the Group configuration and the ECG Parameters and Scenes, or Groups, enabled and configured in the ETS previously are sent to the lamps. If no configuration has been previously uploaded from the ETS, the luminaires will not receive this information.

Method 2 Replacement of 1 ECG

With this second method, it is possible to replace only 1 ECG. The process would be the following:

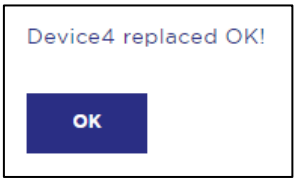


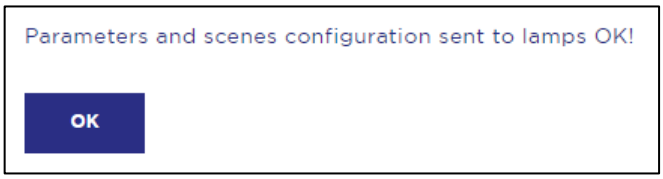
As it is notified, ECG 4 is defective

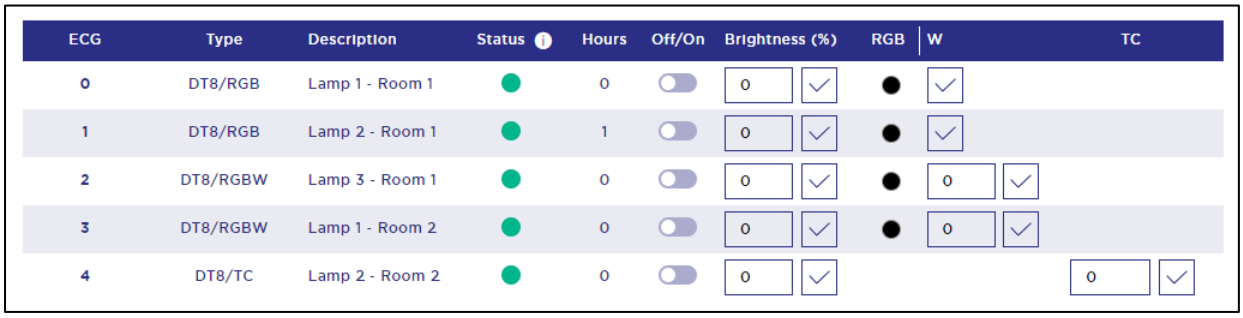
Connect the new ECG to the DALI Bus

Note: the new Luminaire must be the same type as the defective one

In the STATUS tab, click the "Fast replace" button



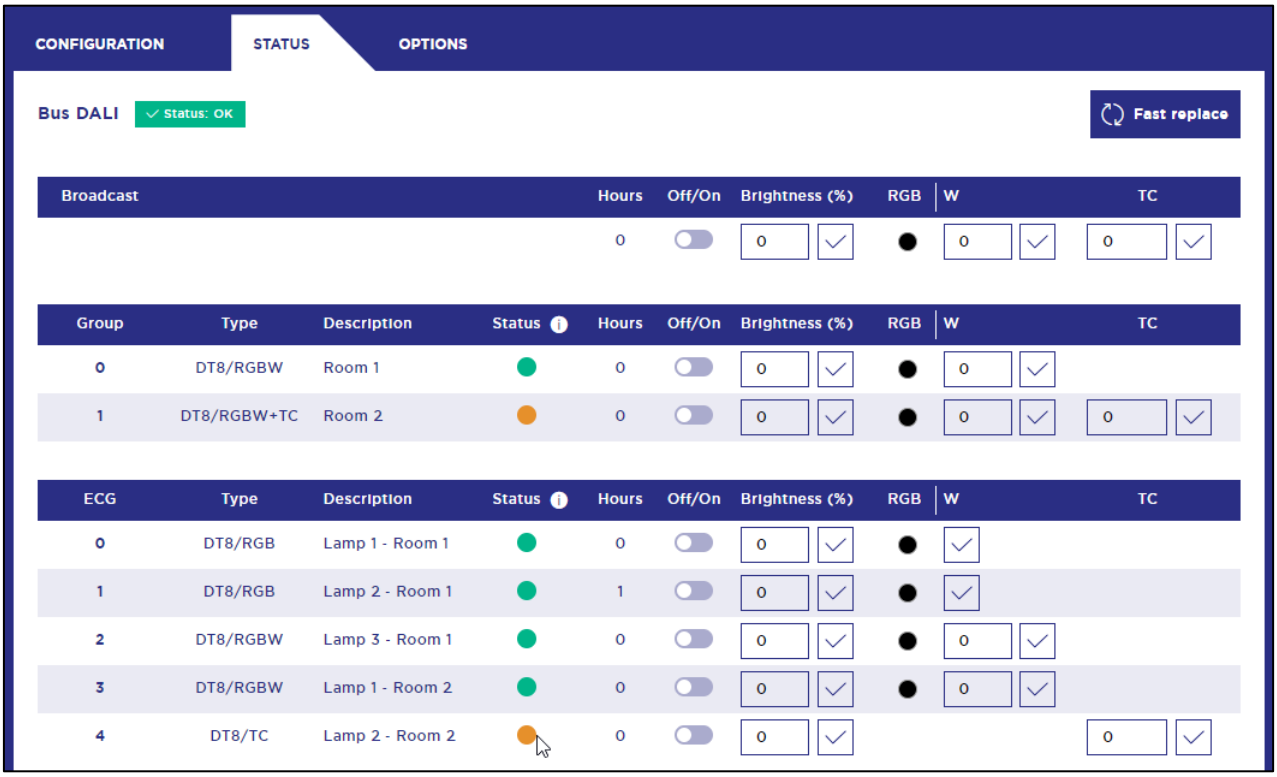




The confirmation message and Status on green indicates that the replacement has been completed correctly.

Method 3: Replacement of 1 ECG (without accessing the WEB)

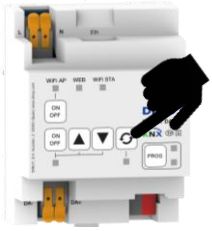
With this third method it is possible to replace 1 single Luminaire without the need to access the Web:



The orange STATUS indicates that the ECG #4 is faulty

Connect the new ECG to the DALI Bus

Note: the new Luminaire must be the same type as the defective one



Press the "Fast replace" button directly on the Gateway

The white LED below the "Fast replace" button lights up for a few seconds

The green LED next to PROG flashes several times, indicating that the replacement was successful

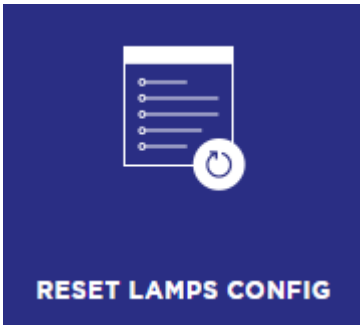
ECG	Type	Description	Status	Hours	Off/On	Brightness (%)	RGB	W	TC
0	DT8/RGB	Lamp 1 - Room 1		0		0			
1	DT8/RGB	Lamp 2 - Room 1		1		0			
2	DT8/RGBW	Lamp 3 - Room 1		0		0		0	
3	DT8/RGBW	Lamp 1 - Room 2		0		0		0	
4	DT8/TC	Lamp 2 - Room 2		0		0			0

The confirmation message and Status on green indicates that the replacement has been completed correctly.

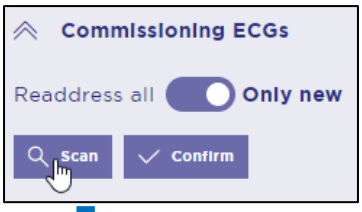
Scanning ECGs and Groups of a Facility

The Gateway allows you to scan an installation with ECGs already addressed and Groups already created previously.

To do this, follow the following process:

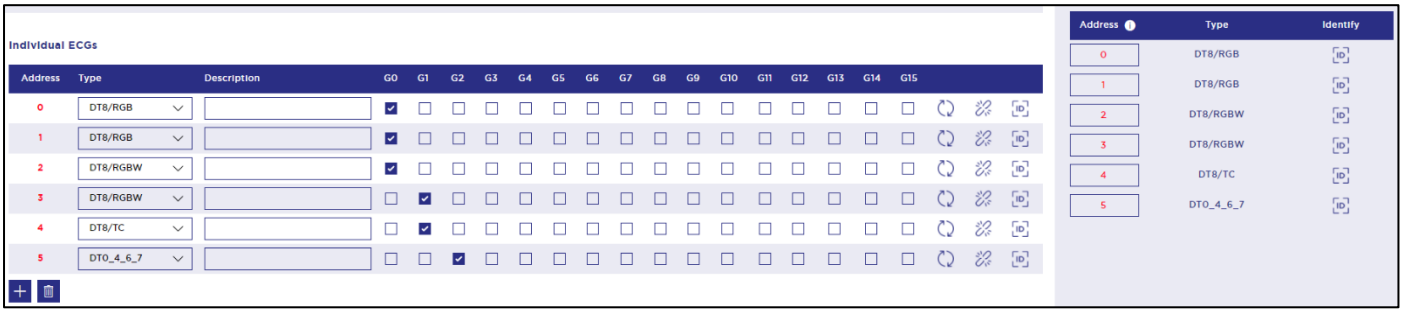


Go to the "OPTIONS" tab and press the "RESET LAMPS CONFIG" button. With this we ensure that the Gateway does not have any previous configuration.



Go to the "CONFIGURATION" tab again, select "Only new" and press the "Scan" key.

You will be asked if you want to search for new ECGs. Confirm it by clicking "OK".

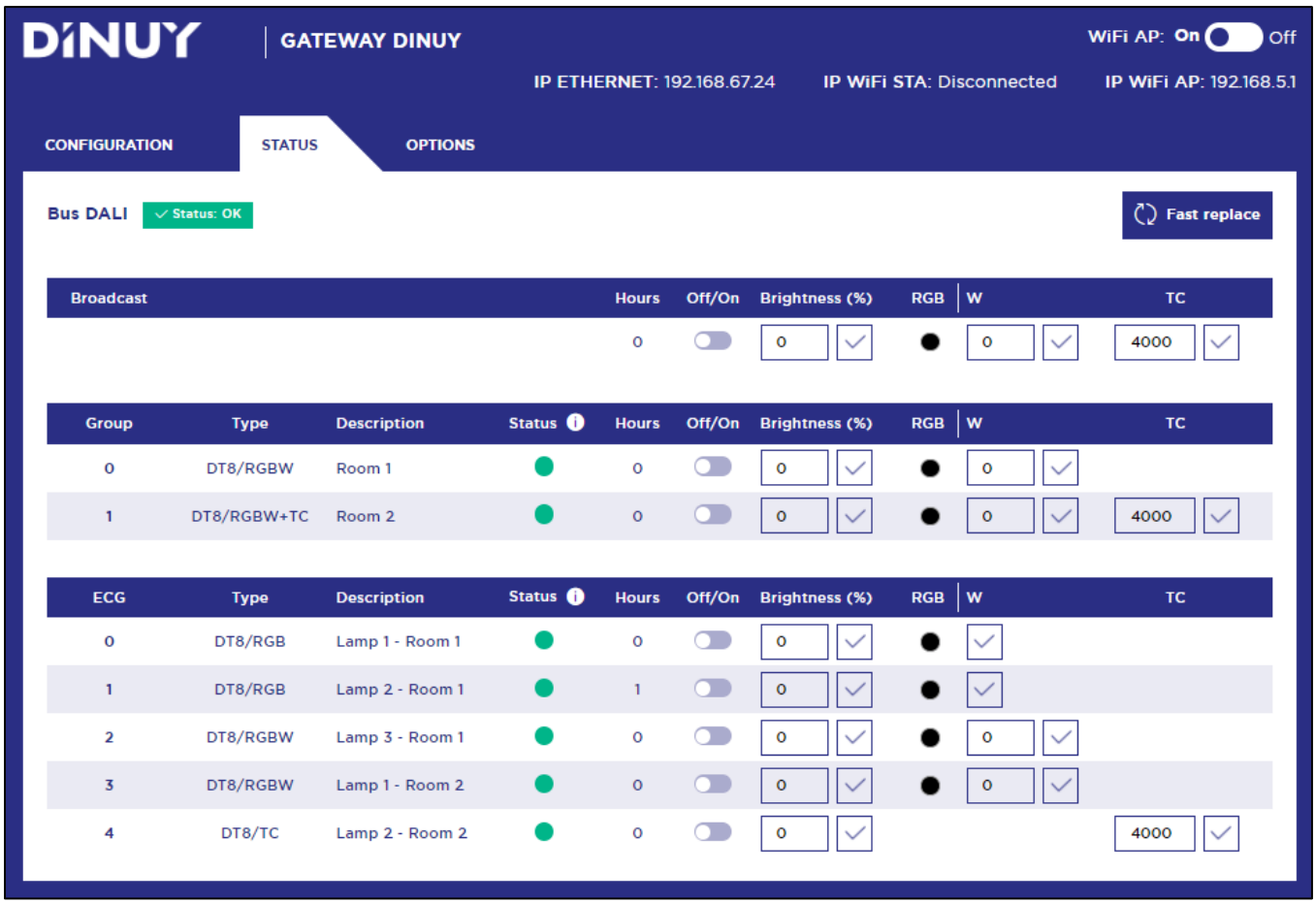


Save the Settings. This will be saved in the Gateway itself.

The DALI addresses of the ECGs found will appear in red, and the Group assignment they previously had will be shown.

STATUS

Within the "STATUS" tab it is possible to perform manual control of the Luminaires. This control can be applied directly over individual ECGs, Groups or the entire channel in Broadcast mode. In addition, it is possible to check their programming and/or identify:



DALI Bus status

Indicates whether the DALI Bus is in correct state or not (for example, short circuit):

Fast Replace

Allows quick replacement of 1 damaged ECG. Review Method 2 of the replacement section for more information.

Broadcast Control

Allows control of all Luminaires connected to the Gateway.

It also shows the hours of operation that all the Luminaires have been connected in Broadcast mode. This time is only counted when the power-on has been through a Broadcast object.

Control Group

Allows control of all Groups that have been created independently.

It also shows the hours of operation that the Luminaires of each of the Groups have been connected. This time is only counted when the ignition has been through a Group object. In this case, the hours of the individual ECGs will also be increased.

Additionally, the status of each of them is indicated:

Green: ECG OK

Orange: ECG does not respond (failure or disconnected)

Red: ECG or lamp failure (ECG responds)

ECG Control

Allows control of all ECGs that have been addressed.

It also shows the hours of operation that the ECGs have been connected to individually or through a power-on of the Group to which they belong.

Additionally, the status of each of them is indicated:

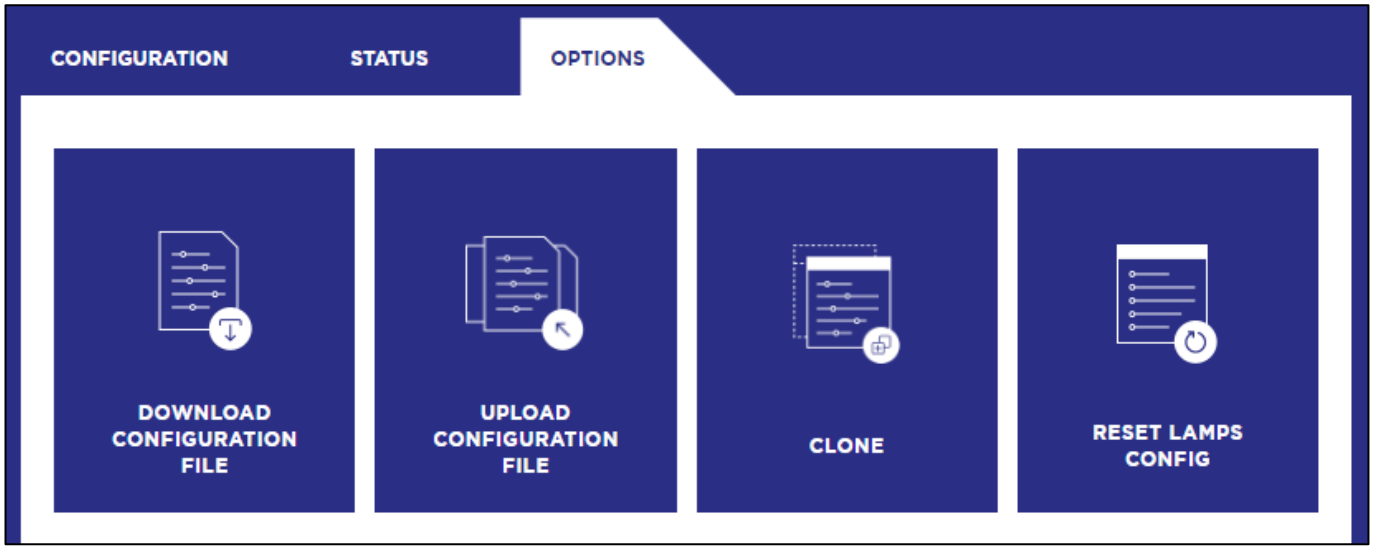
Green: ECG OK

Orange: ECG does not respond (failure or disconnected)

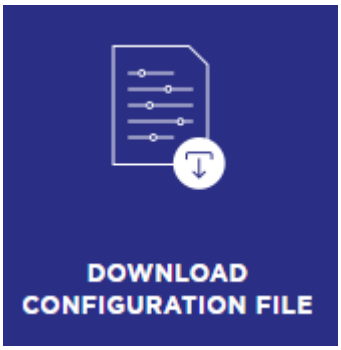
Red: ECG or lamp failure (ECG responds)

OPTIONS

Within the "OPTIONS" tab it is possible to find a series of "extra" options:



Downloading the DALI configuration file from the Gateway to the PC

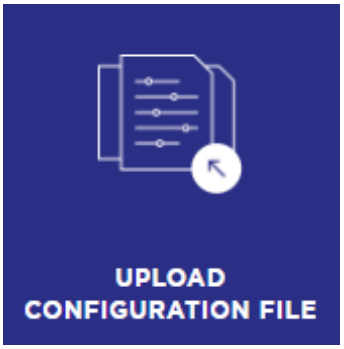


Whether having or not having the Luminaires, it is possible to download the DALI configuration file from the Gateway to the PC.

This process can be used to configure a new Gateway in the future in the same way as it was done in a previous one.

The configuration file will be saved on the PC with the name dali_config.txt

Uploading the DALI configuration file from the PC to the Gateway



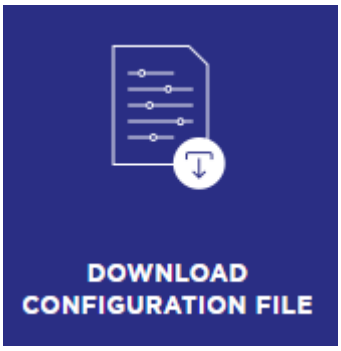
Whether having or not having the Luminaires, it is possible to upload a previously saved DALI configuration file from the PC to a new Gateway.

The configuration file to load must be named dali_config.txt

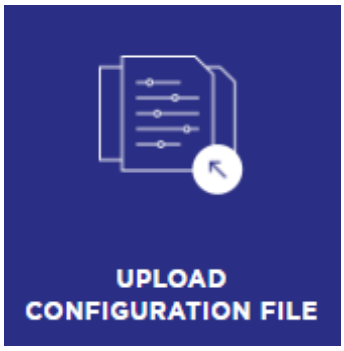
Clone DALI and KNX configuration of the Gateway

This function allows you to make a total clone, DALI and KNX configuration, of an already configured Gateway.

For this, please follow the following steps:



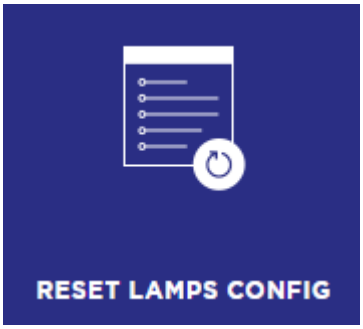
Downloading the Gateway 1 DALI configuration file



DALI configuration file upload to Gateway 2

DALI configuration file upload to Gateway 2

Lamp Configuration Reset



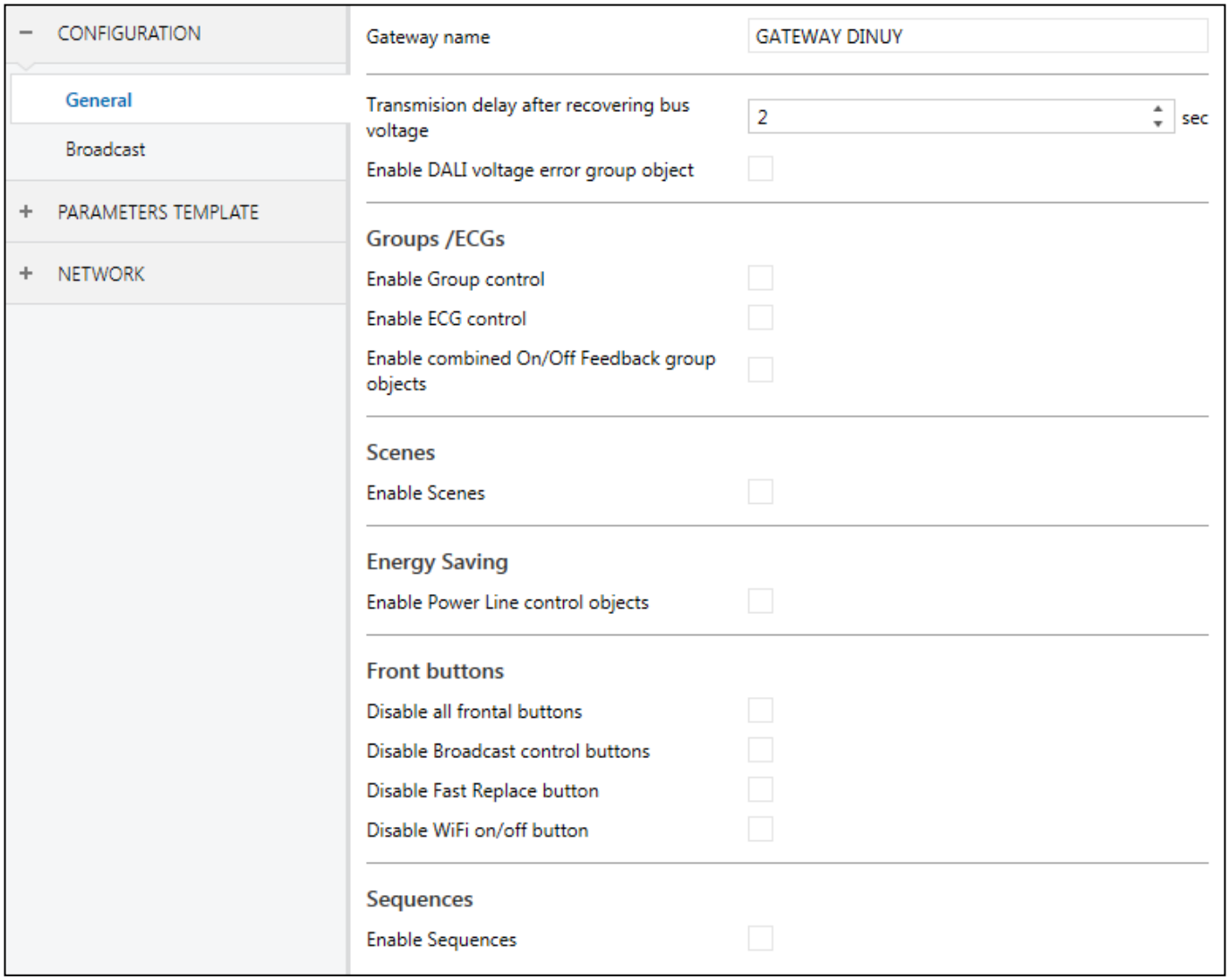
Delete the Gateway configuration file, and reset the number of lamps found to zero. It does not reset the memory configuration of the ECGs themselves, nor does it erase their individual address.

ETS CONFIGURATION

CONFIGURATION Parameters

General Configuration

On this initial screen it is possible to establish a series of general settings:



- **Gateway Name:** allows you to customize the name of the Gateway that will be displayed in the DALI Web Configurator header.

- **Transmission delay after recovering bus voltage:** after recovering KNX Bus voltage, either due to download or Bus failure, the first sending can be configured with a delay of up to 255 seconds, in order not to saturate the transmission itself. Bus. During this time the Gateway will not send any KNX telegram.

- **Enable DALI voltage error group object**: enables the 1-bit object "DALI voltage error alarm". This error appears when the DALI bus is interrupted. In this case, the ECGs adopt the level that has been parameterized for DALI bus failure cases (DALI System Failure Level). During this error, no checking can be performed, nor will other types of errors be reported.

Groups/ECGs

- **Enable Group control:** any Group that contains at least one ECG (according to the assignment made through the DALI Web Configurator) must be expressly enabled in the ETS. In addition, this will allow you to configure the functions and parameters required for each of the Groups.
- **Enable ECG control:** once the corresponding addressing has been carried out through the DALI Web Configurator, it is possible to enable each of the ECGs to configure their required functions. It should be noted that ECGs can also be configured and controlled independently, even if no Group has been assigned to them.
- **Enable combined On/Off Feedback group objects:** allows the display of the On/Off Status of the Groups or ECGS in a combined way through 4 Byte objects (DPT 27.001):

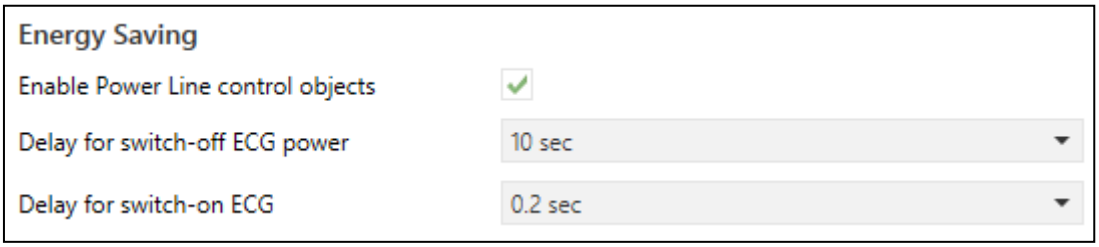
Object	Description
[General] Combined Switch On/Off Feedback G0 to G15	Sends the switching status for G0 to G15. Each value different from 0% is interpreted as ON (1)
[General] Combined Switch On/Off Feedback 0 to 15	Sends the switching status for ECGs 0 to 15. Each value other than 0% is interpreted as ON (1)
[General] Combined Switch On/Off Feedback 6 to 31	Sends the switching status for ECGs 16 to 31. Each value other than 0% is interpreted as ON (1)
[General] Combined Switch On/Off Feedback 32 to 47	Sends the switching status for ECGs 32 to 47. Each value other than 0% is interpreted as ON (1)
[General] Combined Switch On/Off Feedback 48 to 63	Sends the switching status for ECGs 48 to 63. Each value other than 0% is interpreted as ON (1)

Scenes

- **Enable Scenes:** the Scenes function allows you to define up to 16 DALI Scenes, assignable to 64 KNX Scenes, which can be associated with the different enabled Groups or ECGs. Depending on the type of Group or ECG, different values of Luminosity, Color Temperature, Color and White value can be defined. The activation of the Scenes can be done through the 1 Byte object "[Scene] Call Scene".

Energy Saving Function

- **Enable Power Line control objects:** this function allows you to cut off the mains power of each Group and ECG using an independent Switching Actuator. Basically, this allows you to turn off the ECGs or ECGs completely, avoiding residual consumption in stand-by. Up to 16 individual 1 Bit objects are available, plus a 1 Bit Broadcast object. Depending on the parameterization made, these objects will be set to "0" when the associated Groups or ECG are turned off. If the Associated Groups or ECGs are turned on again with a value greater than 0%, these objects will be reset to "1". In both cases, both on switching on and off, it is necessary to establish a time delay.



If this function is enabled, there will be 17 1-bit objects (1 per Group + Broadcast), which will be sent to the KNX Bus at "0" after the established delay time (10sec .. 10min) after turning off the Group(s). This allows, using an external Switching Actuator, to interrupt the power supply to the ECGs, and therefore reduce consumption.

However, the moment the Group/ECG power-on order is sent, "1" is instantly sent through the "Energy Saving" object, and the "ECG power-on delay" will be waited before sending the order. correspondent.

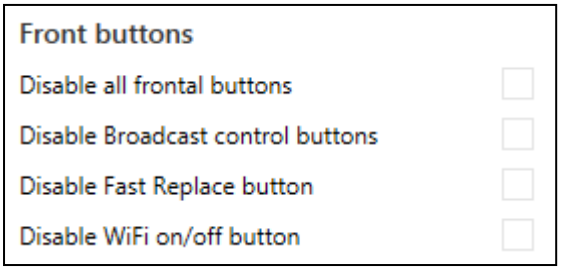
Name	Object Function	Length	C	R	W	T	U	Data Type	Priority
[General] Power Line 0	1 = On, 0 = Off	1 bit	C	-	-	T	-	switch	Low
[General] Power Line 1	1 = On, 0 = Off	1 bit	C	-	-	T	-	switch	Low
[General] Power Line 2	1 = On, 0 = Off	1 bit	C	-	-	T	-	switch	Low
[General] Power Line 3	1 = On, 0 = Off	1 bit	C	-	-	T	-	switch	Low
[General] Power Line 4	1 = On, 0 = Off	1 bit	C	-	-	T	-	switch	Low
[General] Power Line 5	1 = On, 0 = Off	1 bit	C	-	-	T	-	switch	Low
[General] Power Line 6	1 = On, 0 = Off	1 bit	C	-	-	T	-	switch	Low
[General] Power Line 7	1 = On, 0 = Off	1 bit	C	-	-	T	-	switch	Low
[General] Power Line 8	1 = On, 0 = Off	1 bit	C	-	-	T	-	switch	Low
[General] Power Line 9	1 = On, 0 = Off	1 bit	C	-	-	T	-	switch	Low
[General] Power Line 10	1 = On, 0 = Off	1 bit	C	-	-	T	-	switch	Low
[General] Power Line 11	1 = On, 0 = Off	1 bit	C	-	-	T	-	switch	Low
[General] Power Line 12	1 = On, 0 = Off	1 bit	C	-	-	T	-	switch	Low
[General] Power Line 13	1 = On, 0 = Off	1 bit	C	-	-	T	-	switch	Low
[General] Power Line 14	1 = On, 0 = Off	1 bit	C	-	-	T	-	switch	Low
[General] Power Line 15	1 = On, 0 = Off	1 bit	C	-	-	T	-	switch	Low
[General] Power Line Broadcast	1 = On, 0 = Off	1 bit	C	-	-	T	-	switch	Low

Enabling this function implies certain aspects to consider:

- If the Energy Saving mode is active (ECGs without power) no errors related to the DALI Bus will be detected (ECG presence error).
- During the assignment of DALI addresses, this mode must be deactivated in the DALI Web Configurator to prevent unwanted disconnection of any luminaire.
- During Gateway startup, the Energy Saving object will be sent to "1" to ensure that the ECGs are powered correctly.

Manual Control

- **Front buttons:** enables or disables the different physical keys of the Gateway. Being in Manual mode, the moment a command arrives from the KNX Bus, it will pay attention to the latter. That is, it will always pay attention to the last order received.

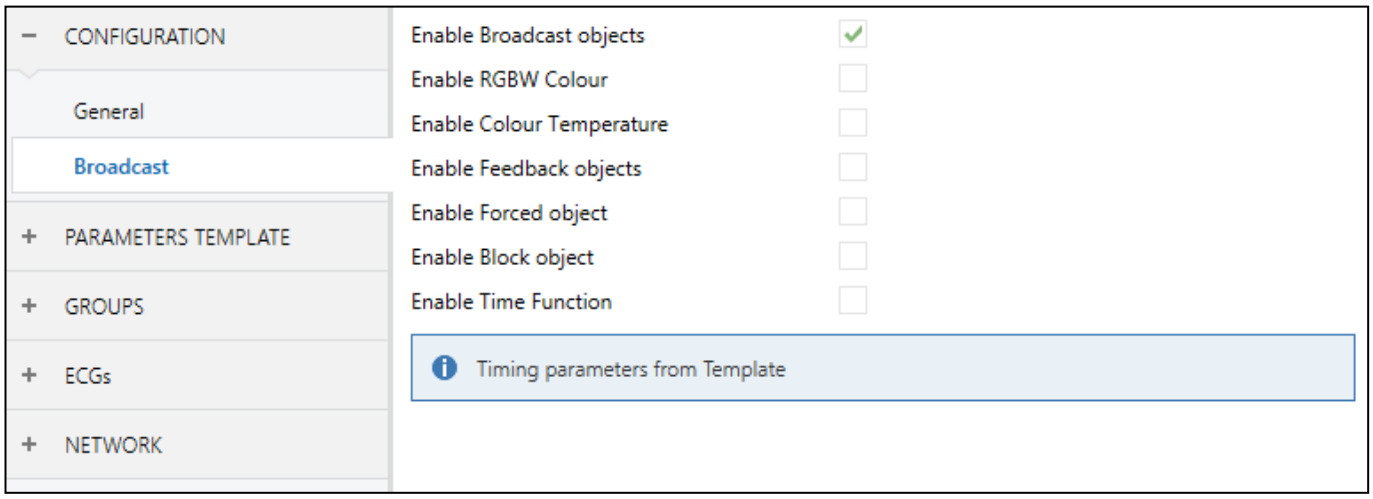


Sequences

- **Enable Sequences:** it is possible to enable up to 6 sequences that act on different groups, ECGs, scenes, or in broadcast mode. Each sequence can consist of up to 8 steps, executed one after another, cyclically, or following a different sequence. For each step, the brightness, color type, color temperature and value, white value, duration, and the progression time between one step and the next can be chosen. Each enabled sequence has a 1-bit object that allows its start (1) and stop (0).

Broadcast Configuration

On this screen it is possible to enable a series of Broadcast control mode objects (joint control of all the luminaires connected to the Gateway):

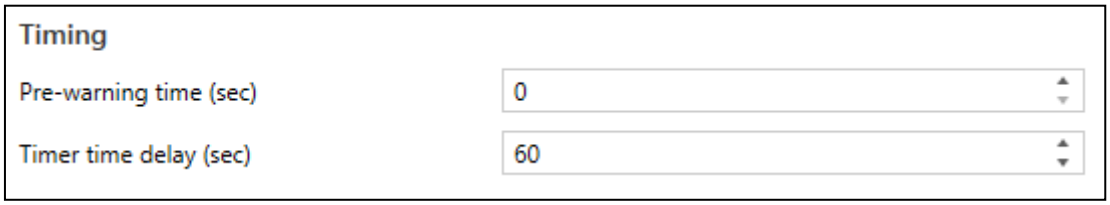


Once this option is enabled, by default, 2 objects will appear, "[Broadcast] Switch On/Off Input" and "[Broadcast] Absolute Set value control Input", which will allow on/off and absolute dimming of all connected luminaires.

Additionally, another series of objects can be enabled:

- **Enable RGBW Colour:** allows you to control the ECGs of the 4 RGBW channels, in Broadcast mode, using the 6 Byte object "[Broadcast] RGBW Colour Input" (DPT 251.600). Unlike the control over ECGs or Groups, in this mode the control can only be done through a 6-Byte object, it is not possible to do it through independent RGB and W objects.
- **Enable Colour Temperature:** allows you to control ECGs with Colour Temperature (TW or TC) using a 2-Byte object (DPT 7.600). Just remember that low Temperature values (K) are warm colours, while high ones are cold colours. Color Temperature control follows the following scale:

- **Enable Feedback object:** enables the State objects of the two previous controls if they have been previously enabled: "[Broadcast] Switch On/Off Feedback", "[Broadcast] Dimming Value Feedback", "[Broadcast] RGBW Colour Feedback" and "[Broadcast] Colour Temperature Value Feedback".
- **Enable Forced object:** allows enabling Forced Control, in Broadcast mode, through the 2-Bit object "[Broadcast] Forced Input", in which the first bit indicates whether Forced is active (Yes-1/No-0) and the second bit indicates whether the forcing is On (1) or Off (0). Its priority is higher than standard operating orders.
- **Enable Block object:** allows having a 1-Bit object to block the output of the Gateway "[Broadcast] Lock Channel Input". If blocking is performed, all commands received from the bus will be ignored, including Scenes or Sequences. If blocking is done during the execution of a Sequence, the execution of the action will stop.
- **Enable Time Function:** allows you to enable the Timing Function through the 1 Bit object "[Broadcast] Timed Start-Stop Input". The Timing parameters will be the same as those established in the Template. This function will simply perform a timed ignition with the possibility of having a pre-warning (1 second flashes) before the timing ends.

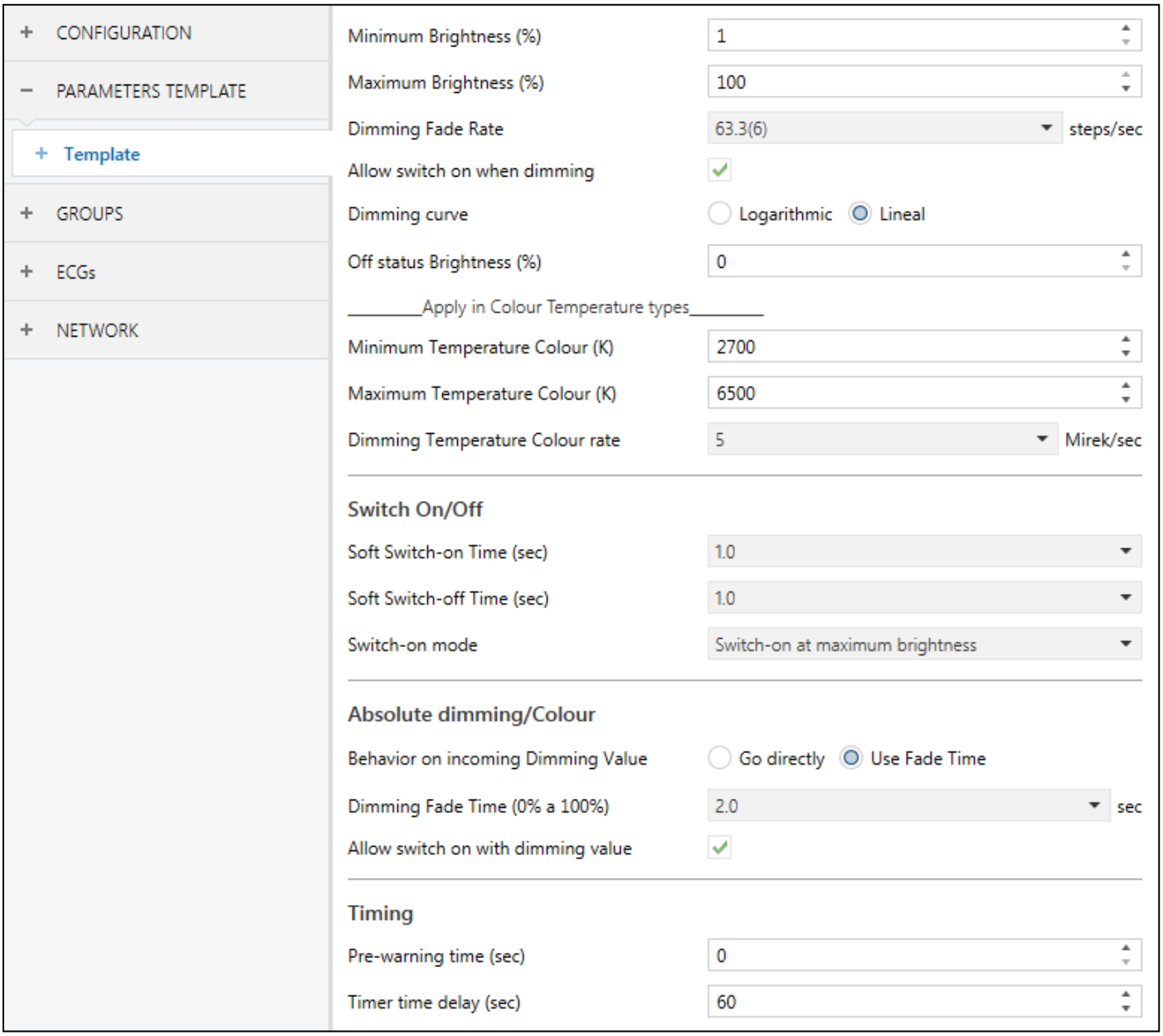


Note: The rest of the parameters will be the same as those established on the "Template" screen.

TEMPLATE Parameters

Template

This screen allows establishing a standard parameterization that can be applied quickly and easily to the different Groups or ECGs:



- **Minimum Brightness (%):** establishes the minimum dimming value allowed for relative and absolute dimming. If a value lower than this is received, the luminaire will remain at this level. Below this limit, only complete switch-off can be performed.

- **Maximum Brightness (%):** sets the maximum dimming value allowed for relative and absolute dimming. If a value higher than this is received, the luminaire will remain at this level.

- **Dimming Fade Rate:** the dimming time (fade time) can be adjusted in 15 different levels, being the time necessary to modify the lamp power from the current value to the target value. Sets the lamp power level change in steps per second. This value is the one used when making a relative dimming. The DALI IEC 62386-102 standard establishes the "Fade Time" and "Fade Rate" as follows:

Fade Rate (steps/sec)	Fade Time (sec)
358	0,7
253	1
179	1,4
127	2
89,4	2,8
63,3	4
44,7	5,7
31,6	8
22,4	11,3
15,8	16
11,2	22,6
7,9	32
5,6	45,3
4	64
2,8	90,5

- **Allow switch on when dimming:** allows choosing whether it is possible to turn on a luminaire, previously turned off, by means of a relative dimming order (4 Bits).

- **Dimming curve:** it is possible to configure the dimming curve of the luminaires in a logarithmic or linear way. The dimming curve is based on the typical logarithmic DALI curve:
  - **Logarithmic:** the KNX value refers to the DALI dimming magnitude. This curve is defined by the DALI standard (EN 60929 or IEC 62386-102).
  - **Linear:** the KNX value refers to the luminous flux.

- **Off status Brightness (%):** establishes the dimming level that the luminaires will adopt when the value "0" is received through the switching object corresponding to the Group or ECG "Switch On/Off Input". This parameter allows establishing a minimum brightness level when receiving an off order.

- **Minimum Temperature Colour (K**): allows configuring the lower dimming limit for Groups or ECGS with color temperature control. This value must be checked in the technical characteristics of the LED used.

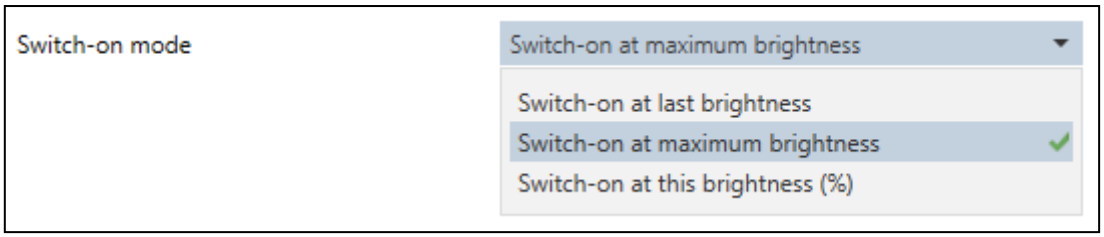
- **Maximum Temperature Colour (K):** allows configuring the upper dimming limit for Groups or ECGS with color temperature control. This value must be checked in the technical characteristics of the LED used.

- **Dimming Temperature Colour rate:** the color temperature value used by the DALI standard is the Mirek. The conversion is carried out in the following way: Mirek = 1,000,000 / K. Therefore, this Ratio reflects the Mireks of increase/decrement per second when performing a relative dimming of the color temperature through the 4-Bit object "Relative Dimming control Input TC".

- **Soft Switch-on Time (sec):** defines the time elapsed from receiving an On order, starting from Off 0%, to reaching its final value. This parameter enables soft switch on.

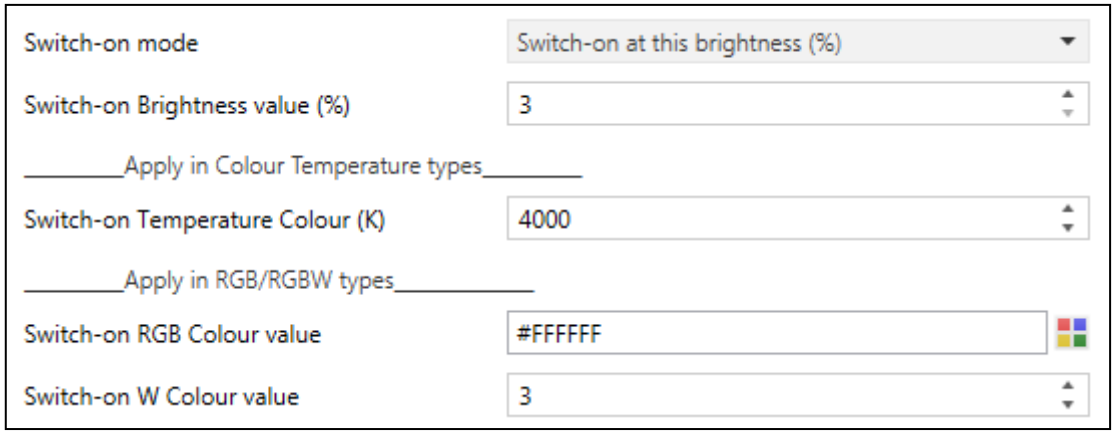
- **Soft Switch-off Time (sec):** specifies the time that elapses from switch-on until it receives an Off order and reaches its final value. This parameter enables soft switch off.

- **Switch-on mode:** determines the brightness level to which the Groups or ECGs are connected when receiving an On order from the 1-Bit object "Switch On/Off Input".



There are 3 options available:

- **Switch-on at last brightness:** the lighting is switched on at the same level that the luminaires had before they were turned off.
- **Switch-on at maximum brightness:** the switch-on is carried out at the maximum level set.
- **Switch-on at this brightness (%):** the switch-on is carried out at a specific level established by parameters. In this case, it is necessary to set a series of parameters:



- **Behavior on incoming Dimming Value:** establishes whether, upon receiving an Absolute Value, the Group or ECG should be set to that level instantly or by performing a progressive dimming, according to the following parameter "Dimming Fade Time (0% to 100%)".

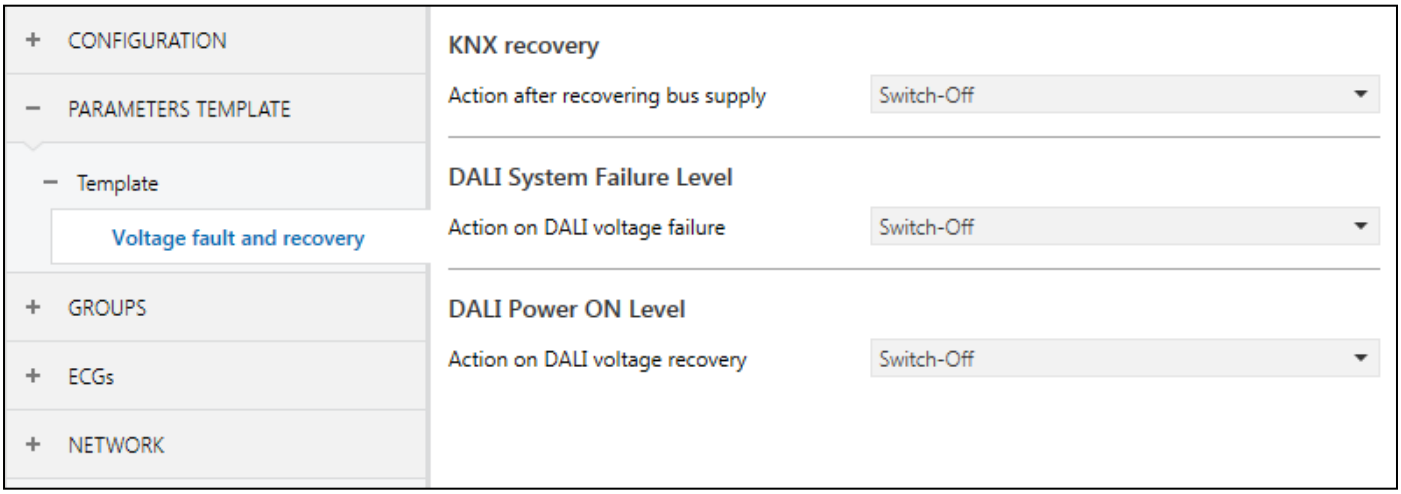
- **Allow switch on with dimming value:** allows choosing whether it is possible to turn on a luminaire that was previously turned off using an Absolute Value command through the 1-Byte object "Absolute Set value control Input".

- **Pre-warning time (sec):** allows setting a time before the end of the timer, after which the corresponding ECG or Group will flash several times, 1s On and 1s Off, as a warning.

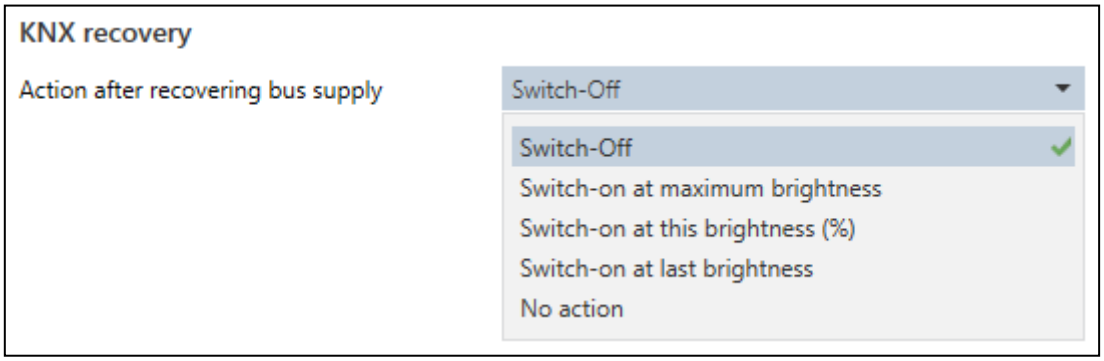
- **Timer time delay (sec):** establishes the timed On time of the Group or ECG through the 1-Bit object "Timed Start-Stop Input". Every time a "1" is received for this object, the time is reset and starts again from zero.

Failure and recovery of voltage

This sub-menu allows establishing a series of parameters in case of failure of the KNX or DALI Bus:

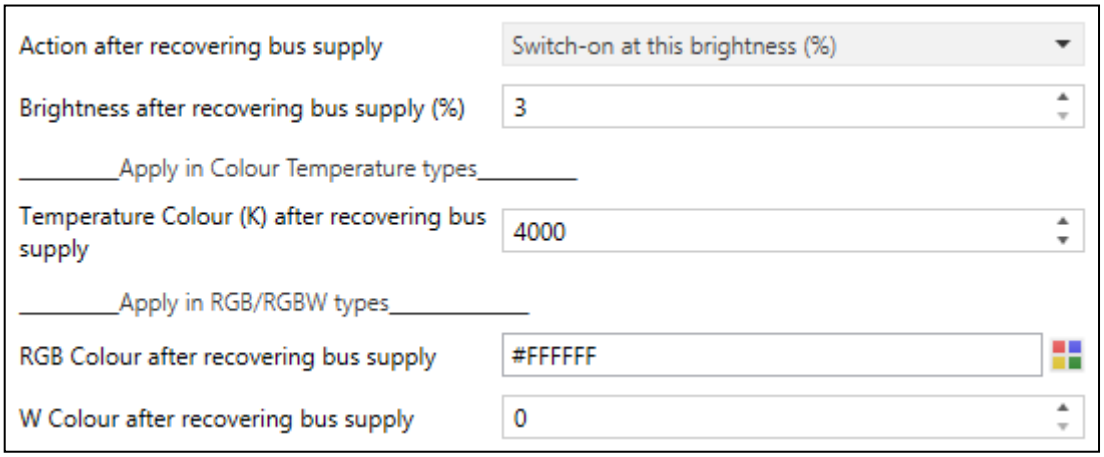


- **Action after recovering bus supply:** establishes the behavior of the ECG or Group after a download, or restart, from the ETS or having suffered a KNX power failure.



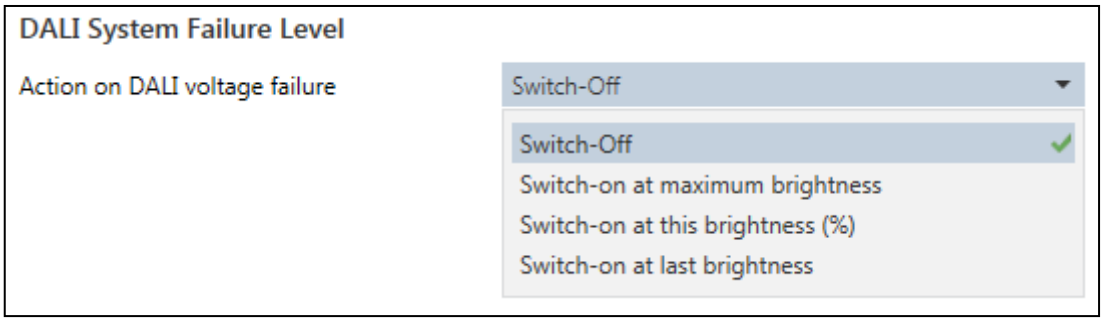
There are 5 options available:

- Switch-Off: the Group, or ECG, turns off.
- Switch-on at maximum brightness: the Group, or ECG, turns on at maximum.
- Switch-on at this brightness (%): the Group, or ECG, turns on at a specific level established by parameters. In this case, it is necessary to set a series of parameters:



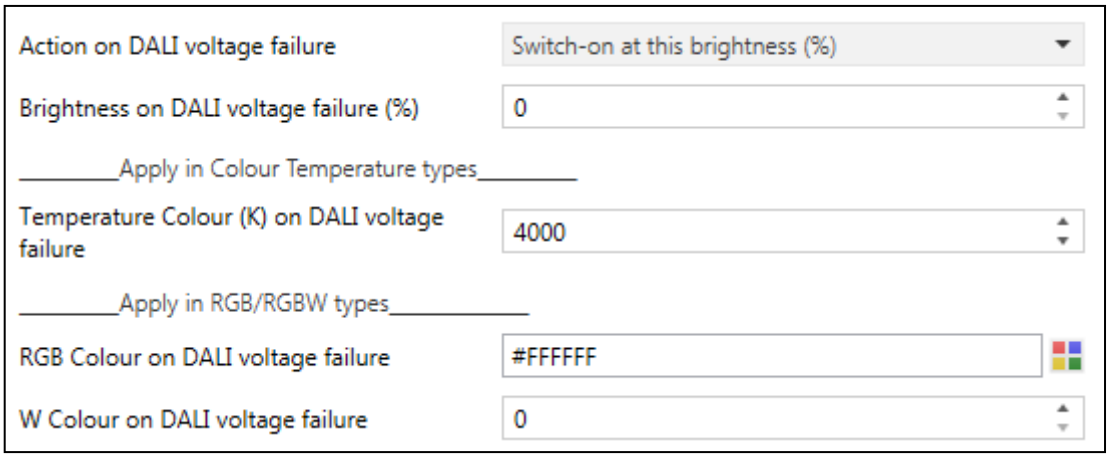
- Switch-on at last brightness: the Group, or ECG, returns on, or off, to the same level it was previously.
- No action: does not change the status of the Group, or ECG.

- **Action on DALI voltage failure:** in case of DALI power failure, the ECGs adopt the level that is parameterized. During this error no control can be performed. Other types of errors will not be reported either, although blocking objects will be considered.



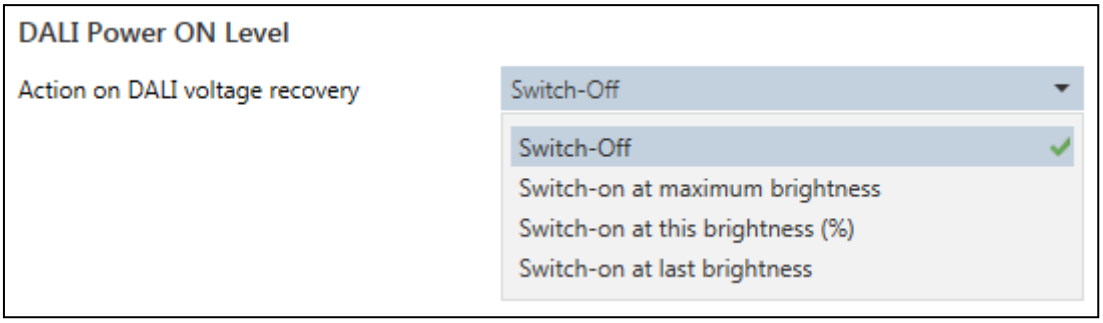
There are 4 options available:

- Switch-Off: the Group, or ECG, is turned off.
- Switch-on at maximum brightness: the Group, or ECG, is turned on at maximum.
- Switch-on at this brightness (%): The Group, or ECG, turns on at a specific level established by parameters. In this case, it is necessary to set a series of parameters:



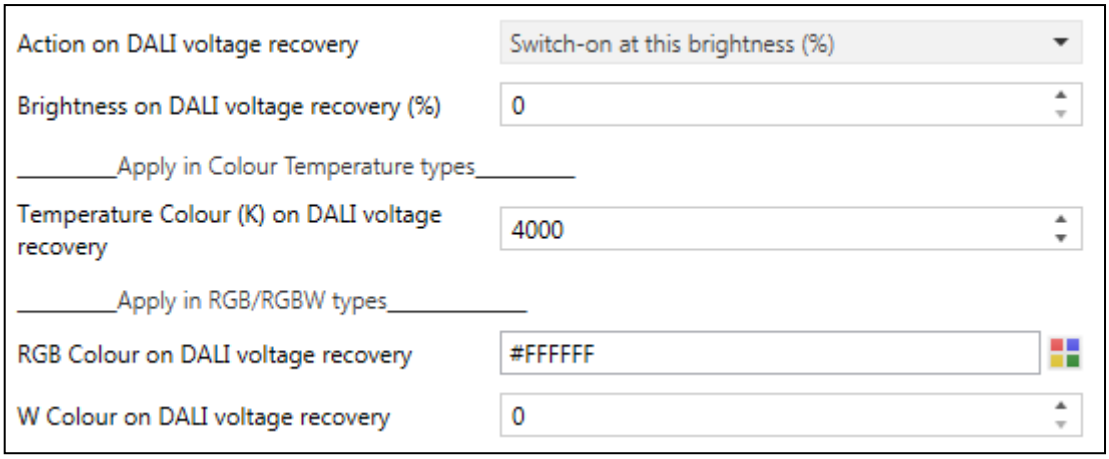
- Switch-on at last brightness: the Group, or ECG, turns on or off at the same level it had previously.

· **Action on DALI voltage recovery:** after DALI power recovery, the ECGs adopt the parameterized level.



There are 4 options available:

- Switch-Off: the Group, or ECG, turns off.
- Switch-on at maximum brightness: the Group, or ECG, turns on at maximum.
- Switch-on at this brightness (%): the Group, or ECG, turns on at a specific level established by parameters. In this case, it is necessary to set a series of parameters:

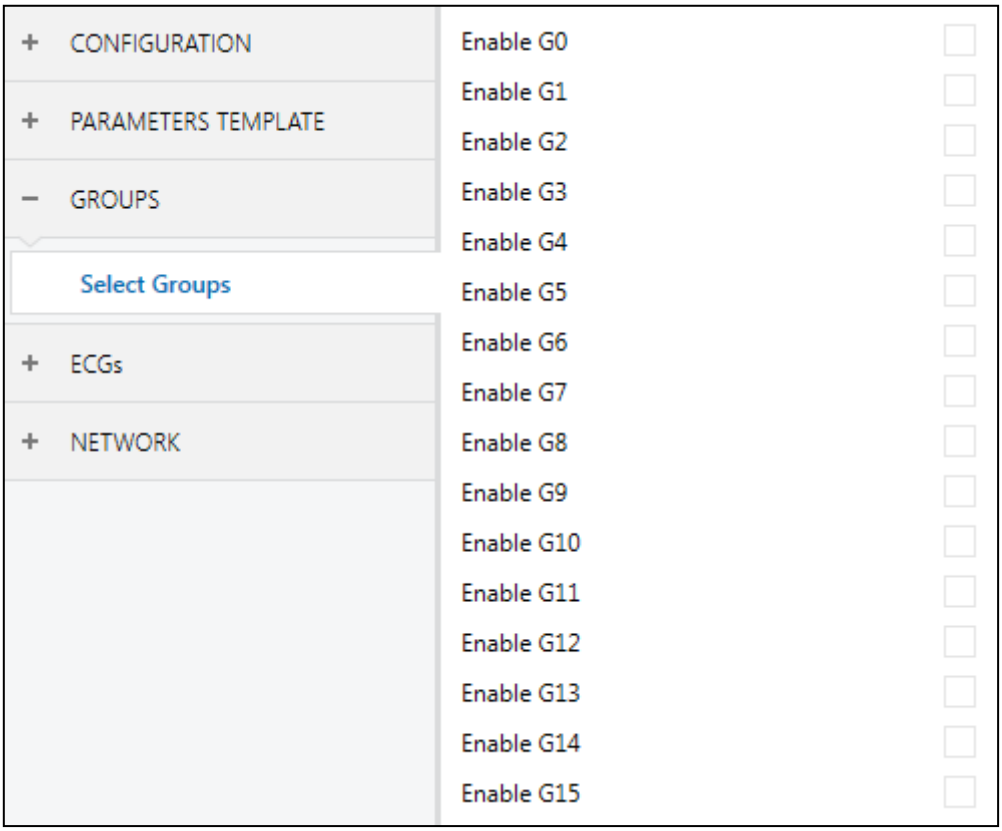


- Switch-on at last brightness: the Group, or ECG, turns on or off at the same level it had previously.

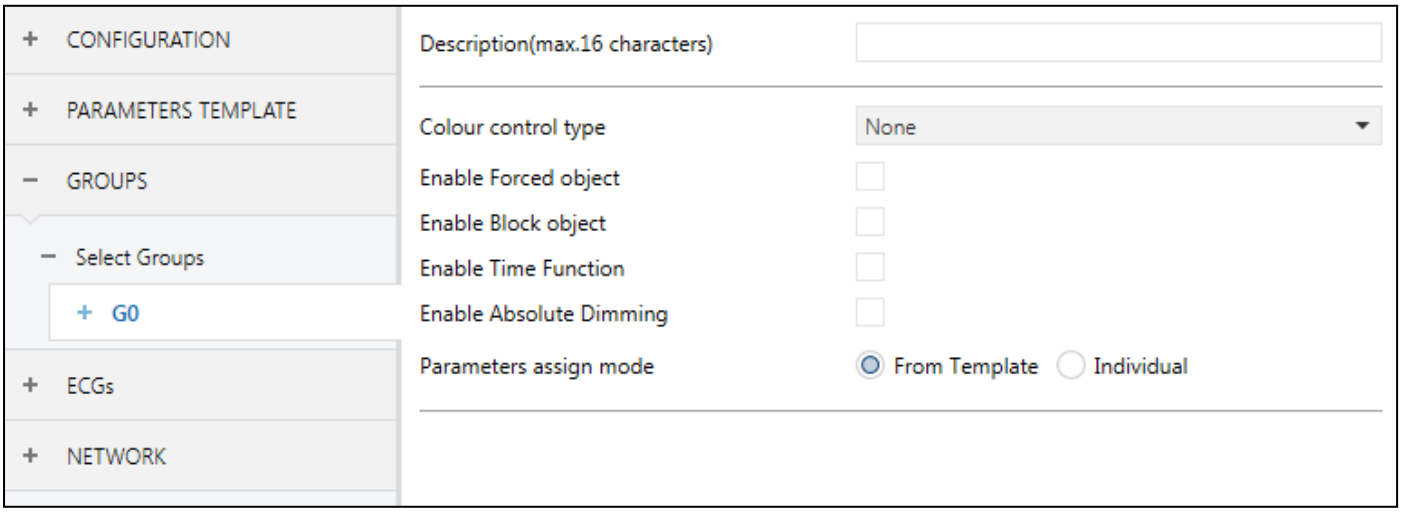
GROUP Parameters

Group selection

This screen allows enabling and configuring the different Groups (G0..G15) already established in the DALI Web Configurator. For this menu to be visible, the Groups control must have previously been enabled on the "General" screen:

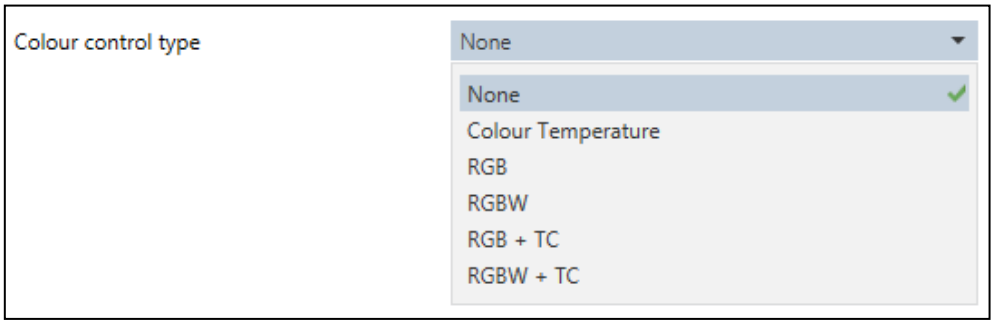


Once the Groups are enabled, it is possible to proceed to their specific configuration:



Group Configuration

- **Description:** name, up to 16 characters, with which the Group will be identified in the ETS.
- **Colour control type:** establishes the type of ECGs that will be controlled in the Group. It is recommended to use a single type of ECG within the same Group, avoiding possible control problems.



- **None:** the ECGs of the Group in question do not have color control. The following objects are available (some of them must be enabled):

Name	Object Function	Length	C	R	W	T	U	Data Type	Priority
[G0] Switch On/Off Input	1 = On, 0 = Off	1 bit	C	-	W	-	-	switch	Low
[G0] Relative Dimming control Input	Dimming control	4 bit	C	-	W	-	-	dimming control	Low
[G0] Absolute Set value control Input	0 - 100%	1 byte	C	-	W	-	-	percentage (0..100%)	Low
[G0] Switch On/Off Feedback	1 = On, 0 = Off	1 bit	C	-	-	T	-	switch	Low
[G0] Dimming Value Feedback	0 - 100%	1 byte	C	-	-	T	-	percentage (0..100%)	Low

  - [G0..15] Switch On/Off Input: 1-Bit object to perform Group switching.
  - [G0..15] Relative Dimming control Input: 4-Bit object to perform relative dimming of the Group.
  - [G0..15] Absolute Set value control Input: 1-Byte object that allows a specific dimming value to be established.
  - [G0..15] Switch On/Off Feedback: 1-Bit object that informs about the status of the Group.
  - [G0..15] Dimming Value Feedback: 1-Byte object that informs about the Group's dimming level.
- **Colour Temperature (Tc):** Group ECGs have color temperature control (Tc or TW). The following objects are available (some of them must be enabled):

Name	Object Function	Length	C	R	W	T	U	Data Type	Priority
[G0] Switch On/Off Input	1 = On, 0 = Off	1 bit	C	-	W	-	-	switch	Low
[G0] Relative Dimming control Input	Dimming control	4 bit	C	-	W	-	-	dimming control	Low
[G0] Relative Dimming control Input TC	Dimming control	4 bit	C	-	W	-	-	dimming control	Low
[G0] Absolute Set value control Input	0 - 100%	1 byte	C	-	W	-	-	percentage (0..100%)	Low
[G0] Absolute Set Colour Temperature	0 K to 65535 K	2 bytes	C	-	W	-	-	absolute colour temperature (K)	Low
[G0] Switch On/Off Feedback	1 = On, 0 = Off	1 bit	C	-	-	T	-	switch	Low
[G0] Dimming Value Feedback	0 - 100%	1 byte	C	-	-	T	-	percentage (0..100%)	Low
[G0] Colour Temperature Value Feedback	0 K to 65535 K	2 bytes	C	-	-	T	-	absolute colour temperature (K)	Low

  - [G0..15] Switch On/Off Input: 1-Bit object to perform Group switching.
  - [G0..15] Relative Dimming control Input: 4-Bit object to perform relative dimming of the Group.
  - [G0..15] Relative Dimming control Input TC Input: 4-Bit object to perform relative dimming of the Group Color Temperature.
  - [G0..15] Absolute Set value control Input: 1-Byte object that establishes a specific dimming value.
  - [G0..15] Absolute Set Colour Temperature: 2-Byte object that allows setting a specific Color Temperature.
  - [G0..15] Switch On/Off Feedback: 1-Bit object that informs about the status of the Group.
  - [G0..15] Dimming Value Feedback: 1-Byte object that informs about the Group's dimming level.
  - [G0..15] Colour Temperature Value Feedback: 2-Byte object that informs about the value (K) of the Group Colour Temperature.

- **RGB:** Group ECGs have RGB color control. The following objects are available (some of them need to be enabled):

Name	Object Function	Length	C	R	W	T	U	Data Type	Priority
[G0] Switch On/Off Input	1 = On, 0 = Off	1 bit	C	-	W	-	-	switch	Low
[G0] Relative Dimming control Input	Dimming control	4 bit	C	-	W	-	-	dimming control	Low
[G0] Relative Dimming control Input R	Dimming control	4 bit	C	-	W	-	-	dimming control	Low
[G0] Relative Dimming control Input G	Dimming control	4 bit	C	-	W	-	-	dimming control	Low
[G0] Relative Dimming control Input B	Dimming control	4 bit	C	-	W	-	-	dimming control	Low
[G0] Relative control RGB Colour Input	Relative Control (3 Bytes)	3 bytes	C	-	W	-	-	RGB relative control	Low
[G0] Absolute Set value control Input	0 - 100%	1 byte	C	-	W	-	-	percentage (0..100%)	Low
[G0] Absolute Set value control Input R	0 - 100%	1 byte	C	-	W	-	-	percentage (0..100%)	Low
[G0] Absolute Set value control Input G	0 - 100%	1 byte	C	-	W	-	-	percentage (0..100%)	Low
[G0] Absolute Set value control Input B	0 - 100%	1 byte	C	-	W	-	-	percentage (0..100%)	Low
[G0] RGB Colour Input	RGB Colour 3x(0..100%)	3 bytes	C	-	W	-	-	RGB value 3x(0..255)	Low
[G0] Switch On/Off Feedback	1 = On, 0 = Off	1 bit	C	-	-	T	-	switch	Low
[G0] Dimming Value Feedback	0 - 100%	1 byte	C	-	-	T	-	percentage (0..100%)	Low
[G0] Dimming Value Feedback R	0 - 100%	1 byte	C	-	-	T	-	percentage (0..100%)	Low
[G0] Dimming Value Feedback G	0 - 100%	1 byte	C	-	-	T	-	percentage (0..100%)	Low
[G0] Dimming Value Feedback B	0 - 100%	1 byte	C	-	-	T	-	percentage (0..100%)	Low
[G0] RGB Colour Feedback	Current Colour RGB 3x(0..100%)	3 bytes	C	-	-	T	-	RGB value 3x(0..255)	Low

  - [G0..15] Switch On/Off Input: 1-Bit object to perform Group switching.
  - [G0..15] Relative Dimming control Input: 4-Bit object to perform relative dimming of the Group.
  - [G0..15] Relative Dimming control Input R: 4-Bit object to perform the relative dimming of the Group Red.
  - [G0..15] Relative Dimming control Input G: 4-Bit object to perform the relative dimming of the Group Green.
  - [G0..15] Relative Dimming control Input B: 4-Bit object to perform the relative dimming of the Group Blue.
  - [G0..15] Relative control RGB Colour Input: 3-Byte object to perform relative dimming of the RGB Color of the Group.
  - [G0..15] Absolute Set value control Input: 1-Byte object that allows establishing a dimming level for the 3 channels of the Group.
  - [G0..15] Absolute Set value control Input R: 1-Byte object that allows establishing a dimming level of the Group Red channel.
  - [G0..15] Absolute Set value control Input G: 1-Byte object that allows establishing a dimming level for the Green channel of the Group.
  - [G0..15] Absolute Set value control Input B: 1-Byte object that allows establishing a dimming level for the Blue channel of the Group.
  - [G0..15] RGB Colour Input: 3-Byte object that allows setting an RGB Color of the Group.
  - [G0..15] Switch On/Off Feedback: 1-Bit object that informs about the status of the Group.
  - [G0..15] Dimming Value Feedback: 1-Byte object that informs about the Group's dimming level.
  - [G0..15] Dimming Value Feedback R: 1-Byte object that informs about the dimming level of the Group's Red channel.
  - [G0..15] Dimming Value Feedback G: 1-Byte object that informs about the dimming level of the Group's Green channel of the Group.
  - [G0..15] Dimming Value Feedback B: 1-Byte object that informs about the dimming level of the Group's Blue channel.
  - [G0..15] RGB Colour Feedback: 3-Byte object that informs about the RGB color of the Group.

- **RGBW:** Group ECGs have RGBW color control. The following objects are available (some of them need to be enabled):
  - ECG RGBW:

Name	Object Function	Length	C	R	W	T	U	Data Type	Priority
[G0] Switch On/Off Input	1 = On, 0 = Off	1 bit	C	-	W	-	-	switch	Low
[G0] Relative Dimming control Input	Dimming control	4 bit	C	-	W	-	-	dimming control	Low
[G0] Relative Dimming control Input R	Dimming control	4 bit	C	-	W	-	-	dimming control	Low
[G0] Relative Dimming control Input G	Dimming control	4 bit	C	-	W	-	-	dimming control	Low
[G0] Relative Dimming control Input B	Dimming control	4 bit	C	-	W	-	-	dimming control	Low
[G0] Relative Dimming control Input W	Dimming control	4 bit	C	-	W	-	-	dimming control	Low
[G0] Relative control RGBW Colour Input	Relative Control (5 Bytes)	5 bytes	C	-	W	-	-	RGBW relative control	Low
[G0] Absolute Set value control Input	0 - 100%	1 byte	C	-	W	-	-	percentage (0..100%)	Low
[G0] Absolute Set value control Input R	0 - 100%	1 byte	C	-	W	-	-	percentage (0..100%)	Low
[G0] Absolute Set value control Input G	0 - 100%	1 byte	C	-	W	-	-	percentage (0..100%)	Low
[G0] Absolute Set value control Input B	0 - 100%	1 byte	C	-	W	-	-	percentage (0..100%)	Low
[G0] Absolute Set value control Input W	0 - 100%	1 byte	C	-	W	-	-	percentage (0..100%)	Low
[G0] RGBW Colour Input	RGBW Colour 4x(0..100%)	6 bytes	C	-	W	-	-	RGBW value 4x(0..100%)	Low
[G0] Switch On/Off Feedback	1 = On, 0 = Off	1 bit	C	-	-	T	-	switch	Low
[G0] Dimming Value Feedback	0 - 100%	1 byte	C	-	-	T	-	percentage (0..100%)	Low
[G0] Dimming Value Feedback R	0 - 100%	1 byte	C	-	-	T	-	percentage (0..100%)	Low
[G0] Dimming Value Feedback G	0 - 100%	1 byte	C	-	-	T	-	percentage (0..100%)	Low
[G0] Dimming Value Feedback B	0 - 100%	1 byte	C	-	-	T	-	percentage (0..100%)	Low
[G0] Dimming Value Feedback W	0 - 100%	1 byte	C	-	-	T	-	percentage (0..100%)	Low
[G0] RGBW Colour Feedback	Current Colour RGBW 4x(0..100%)	6 bytes	C	-	-	T	-	RGBW value 4x(0..100%)	Low

    - [G0..15] Switch On/Off Input: 1-Bit object to perform Group switching.
    - [G0..15] Relative Dimming control Input: 4-Bit object to perform relative dimming of the Group.
    - [G0..15] Relative Dimming control Input R: 4-Bit object to perform the relative dimming of the Red Color of the Group.
    - [G0..15] Relative Dimming control Input G: 4-Bit object to perform the relative dimming of the Green Color of the Group.
    - [G0..15] Relative Dimming control Input B: 4-Bit object to perform the relative dimming of the Blue Color of the Group.
    - [G0..15] Relative Dimming control Input W: 4-Bit object to perform the relative dimming of the White Color of the Group.
    - [G0..15] Relative control RGBW Colour Input: 5-Byte object to perform relative dimming of the RGBW Color of the Group.
    - [G0..15] Absolute Set value control Input: 1-Byte object that allows establishing a dimming level for the 4 channels of the Group.
    - [G0..15] Absolute Set value control Input R: 1-Byte object that allows establishing a dimming level of the Group Red channel.
    - [G0..15] Absolute Set value control Input G: 1-Byte object that allows establishing a dimming level for the Green channel of the Group.
    - [G0..15] Absolute Set value control Input B: 1-Byte object that allows establishing a dimming level for the Blue channel of the Group.
    - [G0..15] Absolute Set value control Input W: 1-Byte object that allows establishing a dimming level of the Group White channel.
    - [G0..15] RGBW Colour Input: 6-Byte object that allows establishing a Group RGBW Color (DPT 251.600). Set the Group colour to RGBW, entering colour values for Red, Green, Blue, and White between 0 and 100% at the bottom of the bytes. The 4 bits of the fifth byte determine whether the corresponding color values are valid.
    - [G0..15] Switch On/Off Feedback: 1-Bit object that informs about the status of the Group.

- [G0..15] Dimming Value Feedback: 1-Byte object that informs about the Group's dimming level.
- [G0..15] Dimming Value Feedback R: 1-Byte object that informs about the dimming level of the Group's Red channel.
- [G0..15] Dimming Value Feedback G: 1-Byte object that informs about the dimming level of the Green channel of the Group.
- [G0..15] Dimming Value Feedback B: 1-Byte object that informs about the dimming level of the Group's Blue channel.
- [G0..15] Dimming Value Feedback W: 1-Byte object that informs about the dimming level of the Group's White channel.
- [G0..15] RGBW Colour Feedback: 6-Byte object that informs about the RGBW color of the Group (DPT 251.600).

▪ ECG RGB+W:

Name	Object Function	Length	C	R	W	T	U	Data Type	Priority
[G0] Switch On/Off Input	1 = On, 0 = Off	1 bit	C	-	W	-	-	switch	Low
[G0] Relative Dimming control Input	Dimming control	4 bit	C	-	W	-	-	dimming control	Low
[G0] Relative Dimming control Input R	Dimming control	4 bit	C	-	W	-	-	dimming control	Low
[G0] Relative Dimming control Input G	Dimming control	4 bit	C	-	W	-	-	dimming control	Low
[G0] Relative Dimming control Input B	Dimming control	4 bit	C	-	W	-	-	dimming control	Low
[G0] Relative Dimming control Input W	Dimming control	4 bit	C	-	W	-	-	dimming control	Low
[G0] Relative control RGB Colour Input	Relative Control (3 Bytes)	3 bytes	C	-	W	-	-	RGB relative control	Low
[G0] Absolute Set value control Input	0 - 100%	1 byte	C	-	W	-	-	percentage (0..100%)	Low
[G0] Absolute Set value control Input R	0 - 100%	1 byte	C	-	W	-	-	percentage (0..100%)	Low
[G0] Absolute Set value control Input G	0 - 100%	1 byte	C	-	W	-	-	percentage (0..100%)	Low
[G0] Absolute Set value control Input B	0 - 100%	1 byte	C	-	W	-	-	percentage (0..100%)	Low
[G0] Absolute Set value control Input W	0 - 100%	1 byte	C	-	W	-	-	percentage (0..100%)	Low
[G0] RGB Colour Input	RGB Colour 3x(0..100%)	3 bytes	C	-	W	-	-	RGB value 3x(0..255)	Low
[G0] Switch On/Off Feedback	1 = On, 0 = Off	1 bit	C	-	-	T	-	switch	Low
[G0] Dimming Value Feedback	0 - 100%	1 byte	C	-	-	T	-	percentage (0..100%)	Low
[G0] Dimming Value Feedback R	0 - 100%	1 byte	C	-	-	T	-	percentage (0..100%)	Low
[G0] Dimming Value Feedback G	0 - 100%	1 byte	C	-	-	T	-	percentage (0..100%)	Low
[G0] Dimming Value Feedback B	0 - 100%	1 byte	C	-	-	T	-	percentage (0..100%)	Low
[G0] Dimming Value Feedback W	0 - 100%	1 byte	C	-	-	T	-	percentage (0..100%)	Low
[G0] RGB Colour Feedback	Current Colour RGB 3x(0..100%)	3 bytes	C	-	-	T	-	RGB value 3x(0..255)	Low

- [G0..15] Switch On/Off Input: 1-Bit object to perform Group switching.
- [G0..15] Relative Dimming control Input: 4-Bit object to perform relative dimming of the RGB+W Group.
- [G0..15] Relative Dimming control Input R: 4-Bit object to perform the relative dimming of the Red colour of the Group.
- [G0..15] Relative Dimming control Input G: 4-Bit object to perform the relative dimming of the Green colour of the Group.
- [G0..15] Relative Dimming control Input B: 4-Bit object to perform the relative dimming of the Blue colour of the Group.
- [G0..15] Relative Dimming control Input W: 4-Bit object to perform the relative dimming of the White colour of the Group.
- [G0..15] Relative control RGB Colour Input: 3-Byte object to perform relative dimming of the RGB Color of the Group (DPT 254.600).
- [G0..15] Absolute Set value control Input: 1-Byte object that allows establishing a dimming level for the 4 channels of the Group.
- [G0..15] Absolute Set value control Input R: 1-Byte object that allows establishing a dimming level of the Group Red channel.
- [G0..15] Absolute Set value control Input G: 1-Byte object that allows establishing a dimming level for the Green channel of the Group.

- [G0..15] Absolute Set value control Input B: 1-Byte object that allows establishing a dimming level for the Blue channel of the Group.
- [G0..15] Absolute Set value control Input W: 1-Byte object that allows establishing a dimming level of the Group White channel.
- [G0..15] RGB Colour Input: 3-Byte object that allows establishing a Group RGB Color (DPT 232.600). The colour values for Red, Green, and Blue are set in the lower bytes from 0 to 100%. The 4 bits in the fifth byte determine whether the corresponding colour values are valid.
- [G0..15] Switch On/Off Feedback: 1-Bit object that informs about the status of the Group.
- [G0..15] Dimming Value Feedback: 1-Byte object that informs about the Group's dimming level.
- [G0..15] Dimming Value Feedback R: 1-Byte object that informs about the dimming level of the Group's Red channel.
- [G0..15] Dimming Value Feedback G: 1-Byte object that informs about the dimming level of the Green channel of the Group.
- [G0..15] Dimming Value Feedback B: 1-Byte object that informs about the dimming level of the Group's Blue channel.
- [G0..15] Dimming Value Feedback W: 1-Byte object that informs about the W color of the Group (DPT 5.001).
- [G0..15] RGB Colour Feedback: 3-Byte object that informs about the RGB color of the Group (DPT 232.600).

- **RGB + TC:** Group ECGs have RGB and TC (TW) color control. The following objects are available (some of them need to be enabled):

Name	Object Function	Length	C	R	W	T	U	Data Type	Priority
[G0] Switch On/Off Input	1 = On, 0 = Off	1 bit	C	-	W	-	-	switch	Low
[G0] Relative Dimming control Input	Dimming control	4 bit	C	-	W	-	-	dimming control	Low
[G0] Relative Dimming control Input R	Dimming control	4 bit	C	-	W	-	-	dimming control	Low
[G0] Relative Dimming control Input G	Dimming control	4 bit	C	-	W	-	-	dimming control	Low
[G0] Relative Dimming control Input B	Dimming control	4 bit	C	-	W	-	-	dimming control	Low
[G0] Relative Dimming control Input TC	Dimming control	4 bit	C	-	W	-	-	dimming control	Low
[G0] Relative control RGB Colour Input	Relative Control (3 Bytes)	3 bytes	C	-	W	-	-	RGB relative control	Low
[G0] Absolute Set value control Input	0 - 100%	1 byte	C	-	W	-	-	percentage (0..100%)	Low
[G0] Absolute Set value control Input R	0 - 100%	1 byte	C	-	W	-	-	percentage (0..100%)	Low
[G0] Absolute Set value control Input G	0 - 100%	1 byte	C	-	W	-	-	percentage (0..100%)	Low
[G0] Absolute Set value control Input B	0 - 100%	1 byte	C	-	W	-	-	percentage (0..100%)	Low
[G0] Absolute Set Colour Temperature	0 K to 65535 K	2 bytes	C	-	W	-	-	absolute colour temperature (K)	Low
[G0] RGB Colour Input	RGB Colour 3x(0..100%)	3 bytes	C	-	W	-	-	RGB value 3x(0..255)	Low
[G0] Switch On/Off Feedback	1 = On, 0 = Off	1 bit	C	-	-	T	-	switch	Low
[G0] Dimming Value Feedback	0 - 100%	1 byte	C	-	-	T	-	percentage (0..100%)	Low
[G0] Dimming Value Feedback R	0 - 100%	1 byte	C	-	-	T	-	percentage (0..100%)	Low
[G0] Dimming Value Feedback G	0 - 100%	1 byte	C	-	-	T	-	percentage (0..100%)	Low
[G0] Dimming Value Feedback B	0 - 100%	1 byte	C	-	-	T	-	percentage (0..100%)	Low
[G0] Colour Temperature Value Feedback	0 K to 65535 K	2 bytes	C	-	-	T	-	absolute colour temperature (K)	Low
[G0] RGB Colour Feedback	Current Colour RGB 3x(0..100%)	3 bytes	C	-	-	T	-	RGB value 3x(0..255)	Low

  - [G0..15] Switch On/Off Input: 1-Bit object to perform Group switching.
  - [G0..15] Relative Dimming control Input: 4-Bit object to perform relative dimming of the RGB+TC Group.
  - [G0..15] Relative Dimming control Input R: 4-Bit object to perform the relative dimming of the Red Color of the Group.
  - [G0..15] Relative Dimming control Input G: 4-Bit object to perform the relative dimming of the Green Color of the Group.
  - [G0..15] Relative Dimming control Input B: 4-Bit object to perform the relative dimming of the Blue Color of the Group.
  - [G0..15] Relative Dimming control Input TC Input: 4-Bit object to perform relative dimming of the Group Color Temperature.
  - [G0..15] Relative control RGB Colour Input: 3-Byte object to perform relative dimming of the RGB Color of the Group (DPT 254.600).
  - [G0..15] Absolute Set value control Input: 1-Byte object that allows establishing a dimming level for the 4 channels of the Group.
  - [G0..15] Absolute Set value control Input R: 1-Byte object that allows establishing a dimming level of the Group Red channel.
  - [G0..15] Absolute Set value control Input G: 1-Byte object that allows establishing a dimming level for the Green channel of the Group.
  - [G0..15] Absolute Set value control Input B: 1-Byte object that allows establishing a dimming level for the Blue channel of the Group.
  - [G0..15] Absolute Set Colour Temperature: 2-Byte object that allows setting a Group Color Temperature (DPT 7.600).
  - [G0..15] RGB Colour Input: 3-Byte object that allows establishing a Group RGB Color (DPT 232.600). The colour values for Red, Green, and Blue are set in the lower bytes from 0 to 100%. The 4 bits in the fifth byte determine whether the corresponding colour values are valid.
  - [G0..15] Switch On/Off Feedback: 1-Bit object that informs about the status of the Group.
  - [G0..15] Dimming Value Feedback: 1-Byte object that informs about the Group's dimming level.
  - [G0..15] Dimming Value Feedback R: 1-Byte object that informs about the dimming level of the Group's Red channel.

- [G0..15] Dimming Value Feedback G: 1-Byte object that informs about the dimming level of the Green channel of the Group.
- [G0..15] Dimming Value Feedback B: 1-Byte object that informs about the dimming level of the Group's Blue channel.
- [G0..15] Colour Temperature Value Feedback: 2-Byte object that informs about the Group Color Temperature.
- [G0..15] RGB Colour Feedback: 3-Byte object that informs about the RGB color of the Group (DPT 232.600).

- **RGBW + TC:** Group ECGs have RGBW and TC (TW) color control. The following objects are available (some of them need to be enabled):
  - ECG RGBW + TC:

Name	Object Function	Length	C	R	W	T	U	Data Type	Priority
[G0] Switch On/Off Input	1 = On, 0 = Off	1 bit	C	-	W	-	-	switch	Low
[G0] Relative Dimming control Input	Dimming control	4 bit	C	-	W	-	-	dimming control	Low
[G0] Relative Dimming control Input R	Dimming control	4 bit	C	-	W	-	-	dimming control	Low
[G0] Relative Dimming control Input G	Dimming control	4 bit	C	-	W	-	-	dimming control	Low
[G0] Relative Dimming control Input B	Dimming control	4 bit	C	-	W	-	-	dimming control	Low
[G0] Relative Dimming control Input W	Dimming control	4 bit	C	-	W	-	-	dimming control	Low
[G0] Relative Dimming control Input TC	Dimming control	4 bit	C	-	W	-	-	dimming control	Low
[G0] Relative control RGBW Colour Input	Relative Control (5 Bytes)	5 bytes	C	-	W	-	-	RGBW relative control	Low
[G0] Absolute Set value control Input	0 - 100%	1 byte	C	-	W	-	-	percentage (0..100%)	Low
[G0] Absolute Set value control Input R	0 - 100%	1 byte	C	-	W	-	-	percentage (0..100%)	Low
[G0] Absolute Set value control Input G	0 - 100%	1 byte	C	-	W	-	-	percentage (0..100%)	Low
[G0] Absolute Set value control Input B	0 - 100%	1 byte	C	-	W	-	-	percentage (0..100%)	Low
[G0] Absolute Set value control Input W	0 - 100%	1 byte	C	-	W	-	-	percentage (0..100%)	Low
[G0] Absolute Set Colour Temperature	0 K to 65535 K	2 bytes	C	-	W	-	-	absolute colour temperature (K)	Low
[G0] RGBW Colour Input	RGBW Colour 4x(0..100%)	6 bytes	C	-	W	-	-	RGBW value 4x(0..100%)	Low
[G0] Switch On/Off Feedback	1 = On, 0 = Off	1 bit	C	-	-	T	-	switch	Low
[G0] Dimming Value Feedback	0 - 100%	1 byte	C	-	-	T	-	percentage (0..100%)	Low
[G0] Dimming Value Feedback R	0 - 100%	1 byte	C	-	-	T	-	percentage (0..100%)	Low
[G0] Dimming Value Feedback G	0 - 100%	1 byte	C	-	-	T	-	percentage (0..100%)	Low
[G0] Dimming Value Feedback B	0 - 100%	1 byte	C	-	-	T	-	percentage (0..100%)	Low
[G0] Dimming Value Feedback W	0 - 100%	1 byte	C	-	-	T	-	percentage (0..100%)	Low
[G0] Colour Temperature Value Feedback	0 K to 65535 K	2 bytes	C	-	-	T	-	absolute colour temperature (K)	Low
[G0] RGBW Colour Feedback	Current Colour RGBW 4x(0..100%)	6 bytes	C	-	-	T	-	RGBW value 4x(0..100%)	Low

    - [G0..15] Switch On/Off Input: 1-Bit object to perform Group switching.
    - [G0..15] Relative Dimming control Input: 4-Bit object to perform relative dimming of the Group.
    - [G0..15] Relative Dimming control Input R: 4-Bit object to perform the relative dimming of the Red Colour of the Group.
    - [G0..15] Relative Dimming control Input G: 4-Bit object to perform the relative dimming of the Green Colour of the Group.
    - [G0..15] Relative Dimming control Input B: 4-Bit object to perform the relative dimming of the Blue Colour of the Group.
    - [G0..15] Relative Dimming control Input W: 4-Bit object to perform the relative dimming of the White Colour of the Group.
    - [G0..15] Blue Colour of the Group TC: 4-Bit object to perform relative dimming of the Group Colour Temperature.
    - [G0..15] Relative control RGBW Colour Input: 5-Byte object to perform relative dimming of the RGBW Colour of the Group (DPT 252.600).
    - [G0..15] Absolute Set value control Input: 1-Byte object that allows establishing a dimming level for the 4 channels of the Group.
    - [G0..15] Absolute Set value control Input R: 1-Byte object that allows establishing a dimming level of the Group Red channel.
    - [G0..15] Absolute Set value control Input G: 1-Byte object that allows establishing a dimming level for the Green channel of the Group.
    - [G0..15] Absolute Set value control Input B: 1-Byte object that allows establishing a dimming level for the Blue channel of the Group.
    - [G0..15] Absolute Set Colour Temperature: 2-Byte object that allows setting a Group Colour Temperature (DPT 7.600).
    - [G0..15] RGBW Colour Input: 6-Byte object that allows establishing a Group RGBW Colour (DPT 251.600). Set the Group colour to RGBW, entering colour values for Red, Green, Blue, and White between 0 and 100%

at the bottom of the bytes. The 4 bits of the fifth byte determine whether the corresponding colour values are valid.

- [G0..15] Switch On/Off Feedback: 1-Bit object that informs about the status of the Group.
- [G0..15] Dimming Value Feedback: 1-Byte object that informs about the Group's dimming level.
- [G0..15] Dimming Value Feedback R: 1-Byte object that informs about the dimming level of the Group's Red channel.
- [G0..15] Dimming Value Feedback G: 1-Byte object that informs about the dimming level of the Green channel of the Group.
- [G0..15] Dimming Value Feedback B: 1-Byte object that informs about the dimming level of the Group's Blue channel.
- [G0..15] Dimming Value Feedback W: 1-Byte object that informs about the W colour of the Group (DPT 5.001).
- [G0..15] Colour Temperature Value Feedback: 2-Byte object that informs about the Group Colour Temperature.
- [G0..15] RGBW Colour Feedback: 6-Byte object that informs about the RGBW colour of the Group (DPT 251.600).

- ECG RGB+W + TC:

Name	Object Function	Length	C	R	W	T	U	Data Type	Priority
[G0] Switch On/Off Input	1 = On, 0 = Off	1 bit	C	-	W	-	-	switch	Low
[G0] Relative Dimming control Input	Dimming control	4 bit	C	-	W	-	-	dimming control	Low
[G0] Relative Dimming control Input R	Dimming control	4 bit	C	-	W	-	-	dimming control	Low
[G0] Relative Dimming control Input G	Dimming control	4 bit	C	-	W	-	-	dimming control	Low
[G0] Relative Dimming control Input B	Dimming control	4 bit	C	-	W	-	-	dimming control	Low
[G0] Relative Dimming control Input W	Dimming control	4 bit	C	-	W	-	-	dimming control	Low
[G0] Relative Dimming control Input TC	Dimming control	4 bit	C	-	W	-	-	dimming control	Low
[G0] Relative control RGB Colour Input	Relative Control (3 Bytes)	3 bytes	C	-	W	-	-	RGB relative control	Low
[G0] Absolute Set value control Input	0 - 100%	1 byte	C	-	W	-	-	percentage (0..100%)	Low
[G0] Absolute Set value control Input R	0 - 100%	1 byte	C	-	W	-	-	percentage (0..100%)	Low
[G0] Absolute Set value control Input G	0 - 100%	1 byte	C	-	W	-	-	percentage (0..100%)	Low
[G0] Absolute Set value control Input B	0 - 100%	1 byte	C	-	W	-	-	percentage (0..100%)	Low
[G0] Absolute Set value control Input W	0 - 100%	1 byte	C	-	W	-	-	percentage (0..100%)	Low
[G0] Absolute Set Colour Temperature	0 K to 65535 K	2 bytes	C	-	W	-	-	absolute colour temperature (K)	Low
[G0] RGB Colour Input	RGB Colour 3x(0..100%)	3 bytes	C	-	W	-	-	RGB value 3x(0..255)	Low
[G0] Switch On/Off Feedback	1 = On, 0 = Off	1 bit	C	-	-	T	-	switch	Low
[G0] Dimming Value Feedback	0 - 100%	1 byte	C	-	-	T	-	percentage (0..100%)	Low
[G0] Dimming Value Feedback R	0 - 100%	1 byte	C	-	-	T	-	percentage (0..100%)	Low
[G0] Dimming Value Feedback G	0 - 100%	1 byte	C	-	-	T	-	percentage (0..100%)	Low
[G0] Dimming Value Feedback B	0 - 100%	1 byte	C	-	-	T	-	percentage (0..100%)	Low
[G0] Dimming Value Feedback W	0 - 100%	1 byte	C	-	-	T	-	percentage (0..100%)	Low
[G0] Colour Temperature Value Feedback	0 K to 65535 K	2 bytes	C	-	-	T	-	absolute colour temperature (K)	Low
[G0] RGB Colour Feedback	Current Colour RGB 3x(0..100%)	3 bytes	C	-	-	T	-	RGB value 3x(0..255)	Low

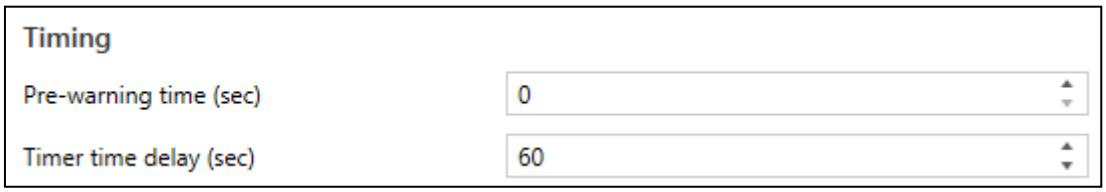
- [G0..15] Switch On/Off Input: 1-Bit object to perform Group switching.
- [G0..15] Relative Dimming control Input: 4-Bit object to perform relative dimming of the Group.
- [G0..15] Relative Dimming control Input R: 4-Bit object to perform the relative dimming of the Red Color of the Group.
- [G0..15] Relative Dimming control Input G: 4-Bit object to perform the relative dimming of the Green Color of the Group.
- [G0..15] Relative Dimming control Input B: 4-Bit object to perform the relative dimming of the Blue Color of the Group.
- [G0..15] Relative Dimming control Input W Input: 4-Bit object to perform the relative dimming of the Group Color W.
- [G0..15 Relative Dimming control Input TC: 4-Bit object to perform relative dimming of the Group Color Temperature.
- [G0..15] Relative control RGB Colour Input: 3-Byte object to perform relative dimming of the RGB Color of the Group (DPT 254.600).
- [G0..15] Absolute Set value control Input: 1-Byte object that allows establishing a dimming level for the 4 channels of the Group.
- [G0..15] Absolute Set value control Input R: 1-Byte object that allows establishing a dimming level of the Group Red channel.
- [G0..15] Absolute Set value control Input G: 1-Byte object that allows establishing a dimming level for the Green channel of the Group.
- [G0..15] Absolute Set value control Input B: 1-Byte object that allows establishing a dimming level for the Blue channel of the Group.
- [G0..15] Absolute Set Colour Temperature: 2-Byte object that allows setting a Group Color Temperature (DPT 7.600).
- [G0..15] RGB Colour Input: 3-Byte object that allows establishing a Group RGB Color (DPT 232.600). The color values for Red, Green, and Blue are set in the lower bytes from 0 to 100%. The 4 bits in the fifth byte determine whether the corresponding color values are valid.
- [G0..15] Switch On/Off Feedback: 1-Bit object that informs about the status of the Group.

- [G0..15] Dimming Value Feedback: 1-Byte object that informs about the Group's dimming level.
- [G0..15] Dimming Value Feedback R: 1-Byte object that informs about the dimming level of the Group's Red channel.
- [G0..15] Dimming Value Feedback G: 1-Byte object that informs about the dimming level of the Green channel of the Group.
- [G0..15] Dimming Value Feedback B: 1-Byte object that informs about the dimming level of the Group's Blue channel.
- [G0..15] Dimming Value Feedback W: 1-Byte object that informs about the W color of the Group (DPT 5.001).
- [G0..15] Colour Temperature Value Feedback: 2-Byte object that informs about the Group Color Temperature.
- [G0..15] RGB Colour Feedback: 3-Byte object that informs about the RGB color of the Group (DPT 232.600).

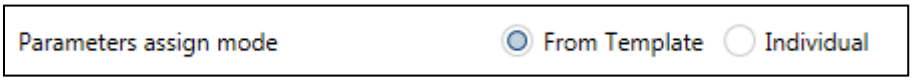
- **Enable Forced object:** allows enabling Forced Control of the Group through the 2-Bit object "[G0..15] Forced Input", in which the first bit indicates whether Forced is active (Yes-1/No-0) and the second bit indicates whether the forcing is On (1) or Off (0). Its priority is higher than standard operating orders.

- **Enable Block object:** allows having a 1-Bit object to lock the Group "[G0..15] Lock Channel Input". If blocking is done, all orders received from the bus to this Group will be ignored.

- **Enable Time Function:** allows enabling the Timing Function through the 1 Bit object "[G0..15] Timed Start-Stop Input". The Timing parameters will be the same as those established in the Template. This function will simply perform a timed ignition with the possibility of having a pre-warning (1 second flashes) before the timing ends.

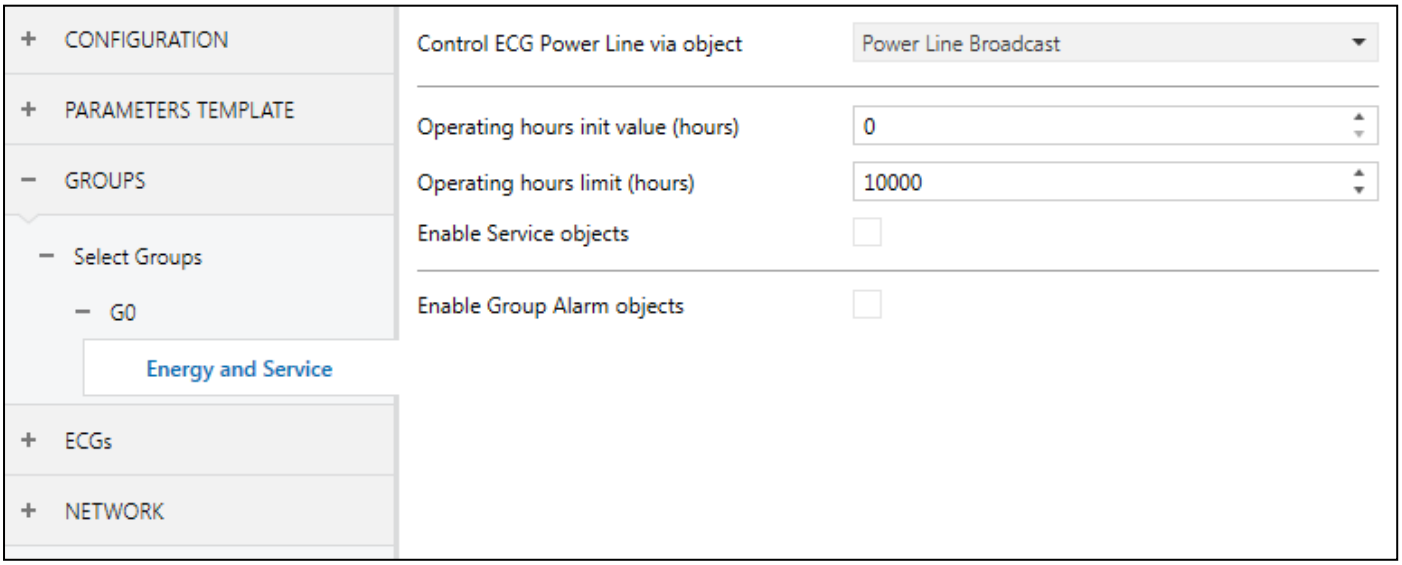


- **Parameters assign mode:** allows the application of the parameters established in the Template, or enables independent configuration regardless of the Group in question. If 'Individual' is selected, the description of each parameter is the same as that explained in the 'Template' menu.

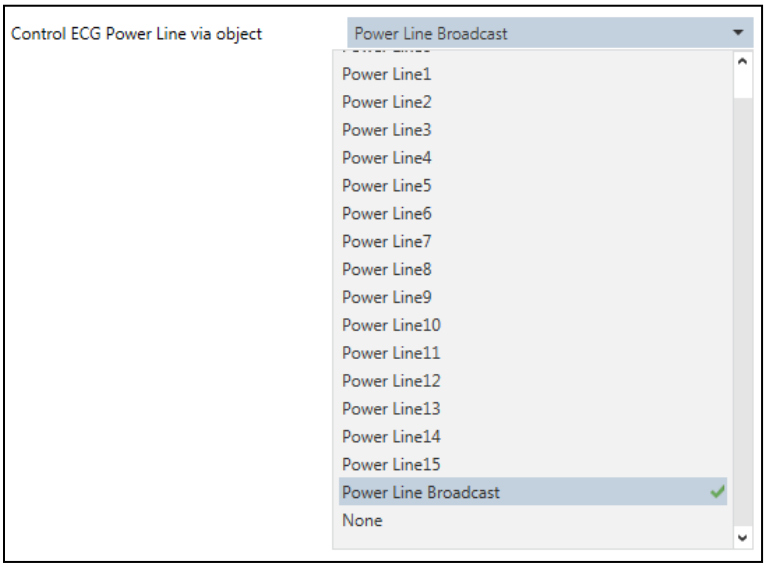


Energy and Service

Allows the establishment of settings related to energy saving, control of operating hours, and display of errors.



- **Control ECG Power Line via object:** allows controlling the standby consumption of the Group's ECGs using one of the 17 1-bit objects available. To use this functionality, the different objects must be enabled on the 'General' screen (Enable Power Line control objects).



According to the selection in the previous drop-down menu, when the Group in question is turned off, the object set to previously will be set to "0" automatically after the set delay time has elapsed, and vice versa, when the Group is turned on, this object will be set to "0". will set to "1".

For the "Energy Saving" object to be set to "0", all ECGs associated with the same object must be turned off (the same object can be used in more than one Group).

With this, and through the use of an external Switching Actuator that allows control of the power supply of the luminaires, when all those belonging to the Group are Off, the physical cut-off of the power network will be carried out.

In short, this function allows you to reduce the consumption of the ECGs by controlling the power supply of the Groups.

You can find a more detailed explanation in the "Energy Savings" section.

Operating hours

The Gateway allows recording operating hours for groups or individual ECGs.

This value is available through the "Operating hours" object (DPT 13.100).

Any dimming value greater than 0% will result in an increase in operating hours.

The hour counter can be reset, for example, when changing a luminaire, through the "Operating hours reset" object.

- **Operating hours init value:** allows setting an initial value from which the hours will begin to be counted.
- **Operating hours limit:** allows configuring a maximum value of operating hours, equivalent to its useful life, which activates an alarm object on the KNX Bus "Operating hours alarm". This information can be used for maintenance tasks.
- **Enable Service objects:** allows enabling the objects described above.

Failures

- **Enable Group Alarm objects:** allows enabling 2 alarm objects:
  - ECG failure: this alarm object will be set to "1" when any ECG in the Group fails.
  - Lamp Failure: this alarm object will be set to "1" when any ECG in the Group reports that the light source is damaged or there is an incorrect connection.

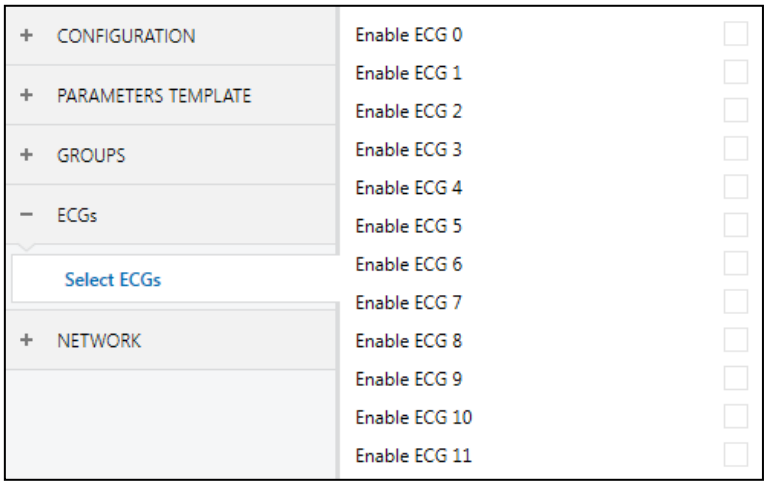
An ECG failure has a higher priority than a lamp failure. If an ECG failure occurs, a possible lamp failure will not be displayed.

ECG Parameters

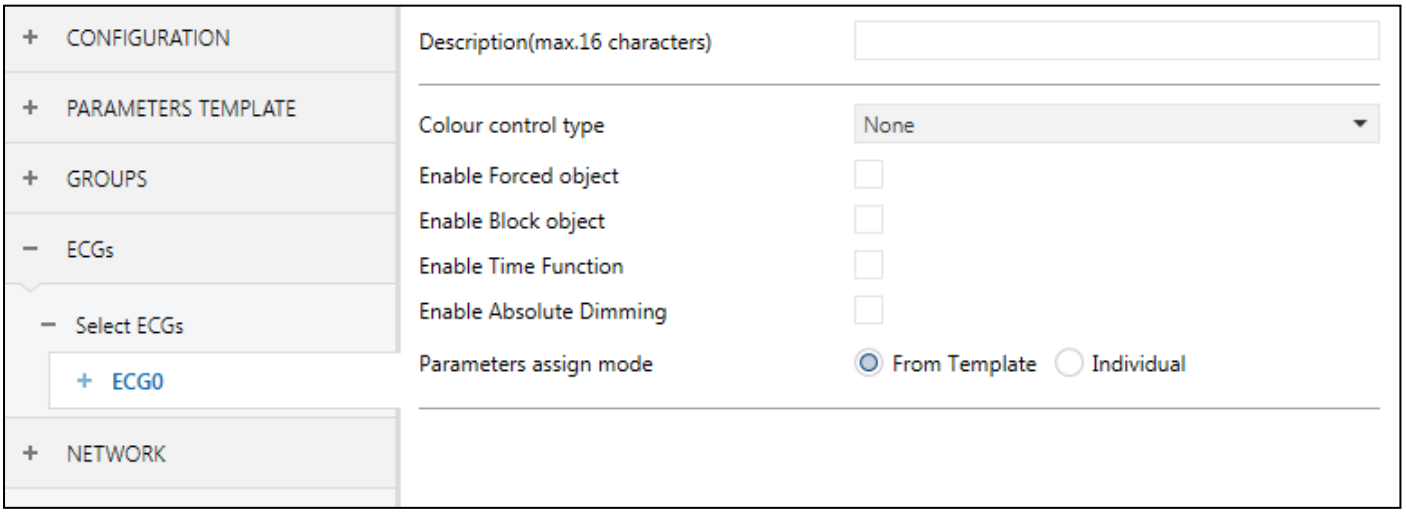
ECG Selection

This screen allows enabling and configuring the different ECGs (ECG0..63) already established in the DALI Web Configurator.

Once the ECGs are enabled, it is possible to proceed to their specific configuration:

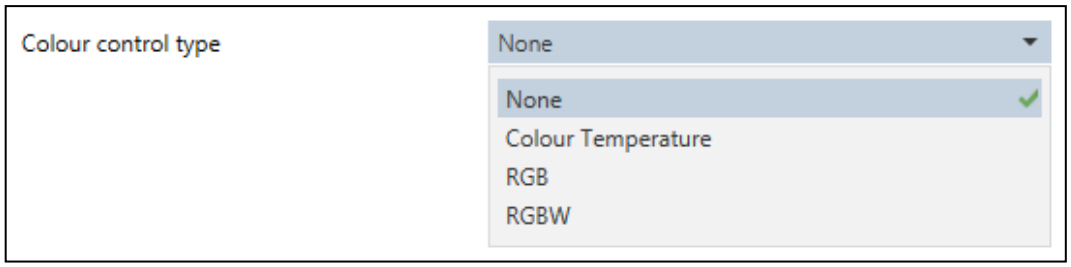


ECG Configuration



- **Description**: name, up to 16 characters, with which the ECG will be identified in the ETS.

- **Colour control type:** sets the ECG type.



  - **None:** the ECG has no color control. The following objects are available (some of them must be enabled):

Name	Object Function	Length	C	R	W	T	U	Data Type	Priority
[ECG0] Switch On/Off Input	1 = On, 0 = Off	1 bit	C	-	W	-	-	switch	Low
[ECG0] Relative Dimming control Input	Dimming control	4 bit	C	-	W	-	-	dimming control	Low
[ECG0] Absolute Set value control Input	0 - 100%	1 byte	C	-	W	-	-	percentage (0..100%)	Low
[ECG0] Switch On/Off Feedback	1 = On, 0 = Off	1 bit	C	-	-	T	-	switch	Low
[ECG0] Dimming Value Feedback	0 - 100%	1 byte	C	-	-	T	-	percentage (0..100%)	Low

    - [ECG0..63] Switch On/Off Input: 1-Bit object to perform ECG switching.
    - [ECG0..63] Relative Dimming control Input: 4-Bit object to perform relative dimming of the ECG.
    - [ECG0..63] Absolute Set value control Input: 1-Byte object that allows a specific dimming value to be established.
    - [ECG0..63] Switch On/Off Feedback: 1-Bit object that informs about the status of the ECG.
    - [ECG0..63] Dimming Value Feedback: 1-Byte object that informs about the ECG's dimming level.

  - **Color Temperature (Tc):** the ECG has color temperature control (TC or TW). The following objects are available (some of them must be enabled):

Name	Object Function	Length	C	R	W	T	U	Data Type	Priority
[ECG0] Switch On/Off Input	1 = On, 0 = Off	1 bit	C	-	W	-	-	switch	Low
[ECG0] Relative Dimming control Input	Dimming control	4 bit	C	-	W	-	-	dimming control	Low
[ECG0] Relative Dimming control Input TC	Dimming control	4 bit	C	-	W	-	-	dimming control	Low
[ECG0] Absolute Set value control Input	0 - 100%	1 byte	C	-	W	-	-	percentage (0..100%)	Low
[ECG0] Absolute Set Colour Temperature	0 K to 65535 K	2 bytes	C	-	W	-	-	absolute colour temperature (K)	Low
[ECG0] Switch On/Off Feedback	1 = On, 0 = Off	1 bit	C	-	-	T	-	switch	Low
[ECG0] Dimming Value Feedback	0 - 100%	1 byte	C	-	-	T	-	percentage (0..100%)	Low
[ECG0] Colour Temperature Value Feedback	0 K to 65535 K	2 bytes	C	-	-	T	-	absolute colour temperature (K)	Low

    - [ECG0..63] Switch On/Off Input: 1-Bit object to perform ECG switching.
    - [ECG0..63] Relative Dimming control Input: 4-Bit object to perform relative dimming of the ECG.
    - [ECG0..63] Relative Dimming control Input TC Input: 4-Bit object to perform relative dimming of the ECG Color Temperature.
    - [ECG0..63] Absolute Set value control Input: 1-Byte object that establishes a specific dimming value.
    - [ECG0..63] Absolute Set Colour Temperature: 2-Byte object that allows setting a specific Color Temperature.
    - [ECG0..63] Switch On/Off Feedback: 1-Bit object that informs about the status of the ECG.
    - [ECG0..63] Dimming Value Feedback: 1-Byte object that informs about the ECG's dimming level.
    - [ECG0..63] Colour Temperature Value Feedback: 2-Byte object that informs about the value (K) of the ECG Colour Temperature.

- **RGB:** The ECG has RGB color control. The following objects are available (some of them need to be enabled):

Name	Object Function	Length	C	R	W	T	U	Data Type	Priority
[ECG0] Switch On/Off Input	1 = On, 0 = Off	1 bit	C	-	W	-	-	switch	Low
[ECG0] Relative Dimming control Input	Dimming control	4 bit	C	-	W	-	-	dimming control	Low
[ECG0] Relative Dimming control Input R	Dimming control	4 bit	C	-	W	-	-	dimming control	Low
[ECG0] Relative Dimming control Input G	Dimming control	4 bit	C	-	W	-	-	dimming control	Low
[ECG0] Relative Dimming control Input B	Dimming control	4 bit	C	-	W	-	-	dimming control	Low
[ECG0] Relative control RGB Colour Input	Relative Control (3 Bytes)	3 bytes	C	-	W	-	-	RGB relative control	Low
[ECG0] Absolute Set value control Input	0 - 100%	1 byte	C	-	W	-	-	percentage (0..100%)	Low
[ECG0] Absolute Set value control Input R	0 - 100%	1 byte	C	-	W	-	-	percentage (0..100%)	Low
[ECG0] Absolute Set value control Input G	0 - 100%	1 byte	C	-	W	-	-	percentage (0..100%)	Low
[ECG0] Absolute Set value control Input B	0 - 100%	1 byte	C	-	W	-	-	percentage (0..100%)	Low
[ECG0] RGB Colour Input	RGB Colour 3x(0..100%)	3 bytes	C	-	W	-	-	RGB value 3x(0..255)	Low
[ECG0] Switch On/Off Feedback	1 = On, 0 = Off	1 bit	C	-	-	T	-	switch	Low
[ECG0] Dimming Value Feedback	0 - 100%	1 byte	C	-	-	T	-	percentage (0..100%)	Low
[ECG0] Dimming Value Feedback R	0 - 100%	1 byte	C	-	-	T	-	percentage (0..100%)	Low
[ECG0] Dimming Value Feedback G	0 - 100%	1 byte	C	-	-	T	-	percentage (0..100%)	Low
[ECG0] Dimming Value Feedback B	0 - 100%	1 byte	C	-	-	T	-	percentage (0..100%)	Low
[ECG0] RGB Colour Feedback	Current Colour RGB 3x(0..100%)	3 bytes	C	-	-	T	-	RGB value 3x(0..255)	Low

  - [ECG0..63] Switch On/Off Input: 1-Bit object to perform ECG switching.
  - [ECG0..63] Relative Dimming control Input: 4-Bit object to perform relative dimming of the ECG.
  - [ECG0..63] Relative Dimming control Input R: 4-Bit object to perform the relative dimming of the ECG Red.
  - [ECG0..63] Relative Dimming control Input G: 4-Bit object to perform the relative dimming of the ECG Green.
  - [ECG0..63] Relative Dimming control Input B: 4-Bit object to perform the relative dimming of the ECG Blue.
  - [ECG0..63] Relative control RGB Colour Input: 3-Byte object to perform relative dimming of the RGB Color of the ECG.
  - [ECG0..63] Absolute Set value control Input: 1-Byte object that allows establishing a dimming level for the 3 channels of the ECG.
  - [ECG0..63] Absolute Set value control Input R: 1-Byte object that allows establishing a dimming level of the ECG Red channel.
  - [ECG0..63] Absolute Set value control Input G: 1-Byte object that allows establishing a dimming level for the Green channel of the ECG.
  - [ECG0..63] Absolute Set value control Input B: 1-Byte object that allows establishing a dimming level for the Blue channel of the ECG.
  - [ECG0..63] RGB Colour Input: 3-Byte object that allows setting an RGB Color of the ECG.
  - [ECG0..63] Switch On/Off Feedback: 1-Bit object that informs about the status of the ECG.
  - [ECG0..63] Dimming Value Feedback: 1-Byte object that informs about the ECG's dimming level.
  - [ECG0..63] Dimming Value Feedback R: 1-Byte object that informs about the dimming level of the ECG's Red channel.
  - [ECG0..63] Dimming Value Feedback G: 1-Byte object that informs about the dimming level of the ECG's Green channel of the ECG.
  - [ECG0..63] Dimming Value Feedback B: 1-Byte object that informs about the dimming level of the ECG's Blue channel.
  - [ECG0..63] RGB Colour Feedback: 3-Byte object that informs about the RGB color of the ECG.

- **RGBW:** The ECG has RGBW color control. The following objects are available (some of them need to be enabled):
  - ECG RGBW:

Name	Object Function	Length	C	R	W	T	U	Data Type	Priority
[ECG0] Switch On/Off Input	1 = On, 0 = Off	1 bit	C	-	W	-	-	switch	Low
[ECG0] Relative Dimming control Input	Dimming control	4 bit	C	-	W	-	-	dimming control	Low
[ECG0] Relative Dimming control Input R	Dimming control	4 bit	C	-	W	-	-	dimming control	Low
[ECG0] Relative Dimming control Input G	Dimming control	4 bit	C	-	W	-	-	dimming control	Low
[ECG0] Relative Dimming control Input B	Dimming control	4 bit	C	-	W	-	-	dimming control	Low
[ECG0] Relative Dimming control Input W	Dimming control	4 bit	C	-	W	-	-	dimming control	Low
[ECG0] Relative control RGBW Colour Input	Relative Control (5 Bytes)	5 bytes	C	-	W	-	-	RGBW relative control	Low
[ECG0] Absolute Set value control Input	0 - 100%	1 byte	C	-	W	-	-	percentage (0..100%)	Low
[ECG0] Absolute Set value control Input R	0 - 100%	1 byte	C	-	W	-	-	percentage (0..100%)	Low
[ECG0] Absolute Set value control Input G	0 - 100%	1 byte	C	-	W	-	-	percentage (0..100%)	Low
[ECG0] Absolute Set value control Input B	0 - 100%	1 byte	C	-	W	-	-	percentage (0..100%)	Low
[ECG0] Absolute Set value control Input W	0 - 100%	1 byte	C	-	W	-	-	percentage (0..100%)	Low
[ECG0] RGBW Colour Input	RGBW Colour 4x(0..100%)	6 bytes	C	-	W	-	-	RGBW value 4x(0..100%)	Low
[ECG0] Switch On/Off Feedback	1 = On, 0 = Off	1 bit	C	-	-	T	-	switch	Low
[ECG0] Dimming Value Feedback	0 - 100%	1 byte	C	-	-	T	-	percentage (0..100%)	Low
[ECG0] Dimming Value Feedback R	0 - 100%	1 byte	C	-	-	T	-	percentage (0..100%)	Low
[ECG0] Dimming Value Feedback G	0 - 100%	1 byte	C	-	-	T	-	percentage (0..100%)	Low
[ECG0] Dimming Value Feedback B	0 - 100%	1 byte	C	-	-	T	-	percentage (0..100%)	Low
[ECG0] Dimming Value Feedback W	0 - 100%	1 byte	C	-	-	T	-	percentage (0..100%)	Low
[ECG0] RGBW Colour Feedback	Current Colour RGBW 4x(0..100%)	6 bytes	C	-	-	T	-	RGBW value 4x(0..100%)	Low

    - [ECG0..63] Switch On/Off Input: 1-Bit object to perform ECG switching.
    - [ECG0..63] Relative Dimming control Input: 4-Bit object to perform relative dimming of the ECG.
    - [ECG0..63] Relative Dimming control Input R: 4-Bit object to perform the relative dimming of the Red Color of the ECG.
    - [ECG0..63] Relative Dimming control Input G: 4-Bit object to perform the relative dimming of the Green Color of the ECG.
    - [ECG0..63] Relative Dimming control Input B: 4-Bit object to perform the relative dimming of the Blue Color of the ECG.
    - [ECG0..63] Relative Dimming control Input W: 4-Bit object to perform the relative dimming of the White Color of the ECG.
    - [ECG0..63] Relative control RGBW Colour Input: 5-Byte object to perform relative dimming of the RGBW Color of the ECG.
    - [ECG0..63] Absolute Set value control Input: 1-Byte object that allows establishing a dimming level for the 4 channels of the ECG.
    - [ECG0..63] Absolute Set value control Input R: 1-Byte object that allows establishing a dimming level of the ECG Red channel.
    - [ECG0..63] Absolute Set value control Input G: 1-Byte object that allows establishing a dimming level for the Green channel of the ECG.
    - [ECG0..63] Absolute Set value control Input B: 1-Byte object that allows establishing a dimming level for the Blue channel of the ECG.
    - [ECG0..63] Absolute Set value control Input W: 1-Byte object that allows establishing a dimming level of the ECG White channel.
    - [ECG0..63] RGBW Colour Input: 6-Byte object that allows establishing a ECG RGBW Color (DPT 251.600). Set the ECG colour to RGBW, entering colour values for Red, Green, Blue, and White between 0 and 100% at the bottom of the bytes. The 4 bits of the fifth byte determine whether the corresponding color values are valid.
    - [ECG0..63] Switch On/Off Feedback: 1-Bit object that informs about the status of the ECG.
    - [ECG0..63] Dimming Value Feedback: 1-Byte object that informs about the ECG's dimming level.

- [ECG0..63] Dimming Value Feedback R: 1-Byte object that informs about the dimming level of the ECG's Red channel.
- [ECG0..63] Dimming Value Feedback G: 1-Byte object that informs about the dimming level of the Green channel of the ECG.
- [ECG0..63] Dimming Value Feedback B: 1-Byte object that informs about the dimming level of the ECG's Blue channel.
- [ECG0..63] Dimming Value Feedback W: 1-Byte object that informs about the dimming level of the ECG's White channel.
- [ECG0..63] RGBW Colour Feedback: 6-Byte object that informs about the RGBW color of the ECG (DPT 251.600).

▪ ECG RGB+W:

Name	Object Function	Length	C	R	W	T	U	Data Type	Priority
[ECG0] Switch On/Off Input	1 = On, 0 = Off	1 bit	C	-	W	-	-	switch	Low
[ECG0] Relative Dimming control Input	Dimming control	4 bit	C	-	W	-	-	dimming control	Low
[ECG0] Relative Dimming control Input R	Dimming control	4 bit	C	-	W	-	-	dimming control	Low
[ECG0] Relative Dimming control Input G	Dimming control	4 bit	C	-	W	-	-	dimming control	Low
[ECG0] Relative Dimming control Input B	Dimming control	4 bit	C	-	W	-	-	dimming control	Low
[ECG0] Relative Dimming control Input W	Dimming control	4 bit	C	-	W	-	-	dimming control	Low
[ECG0] Relative control RGB Colour Input	Relative Control (3 Bytes)	3 bytes	C	-	W	-	-	RGB relative control	Low
[ECG0] Absolute Set value control Input	0 - 100%	1 byte	C	-	W	-	-	percentage (0..100%)	Low
[ECG0] Absolute Set value control Input R	0 - 100%	1 byte	C	-	W	-	-	percentage (0..100%)	Low
[ECG0] Absolute Set value control Input G	0 - 100%	1 byte	C	-	W	-	-	percentage (0..100%)	Low
[ECG0] Absolute Set value control Input B	0 - 100%	1 byte	C	-	W	-	-	percentage (0..100%)	Low
[ECG0] Absolute Set value control Input W	0 - 100%	1 byte	C	-	W	-	-	percentage (0..100%)	Low
[ECG0] RGB Colour Input	RGB Colour 3x(0..100%)	3 bytes	C	-	W	-	-	RGB value 3x(0..255)	Low
[ECG0] Switch On/Off Feedback	1 = On, 0 = Off	1 bit	C	-	-	T	-	switch	Low
[ECG0] Dimming Value Feedback	0 - 100%	1 byte	C	-	-	T	-	percentage (0..100%)	Low
[ECG0] Dimming Value Feedback R	0 - 100%	1 byte	C	-	-	T	-	percentage (0..100%)	Low
[ECG0] Dimming Value Feedback G	0 - 100%	1 byte	C	-	-	T	-	percentage (0..100%)	Low
[ECG0] Dimming Value Feedback B	0 - 100%	1 byte	C	-	-	T	-	percentage (0..100%)	Low
[ECG0] Dimming Value Feedback W	0 - 100%	1 byte	C	-	-	T	-	percentage (0..100%)	Low
[ECG0] RGB Colour Feedback	Current Colour RGB 3x(0..100%)	3 bytes	C	-	-	T	-	RGB value 3x(0..255)	Low

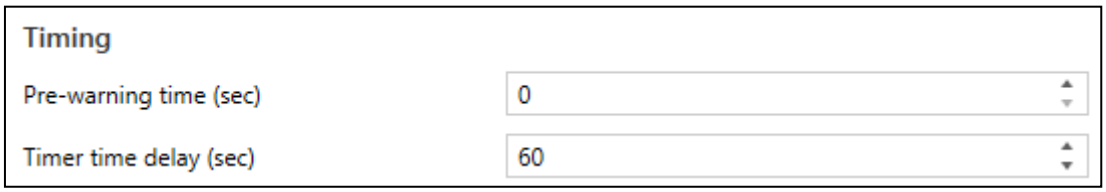
- [ECG0..63] Switch On/Off Input: 1-Bit object to perform ECG switching.
- [ECG0..63] Relative Dimming control Input: 4-Bit object to perform relative dimming of the RGB+W ECG.
- [ECG0..63] Relative Dimming control Input R: 4-Bit object to perform the relative dimming of the Red colour of the ECG.
- [ECG0..63] Relative Dimming control Input G: 4-Bit object to perform the relative dimming of the Green colour of the ECG.
- [ECG0..63] Relative Dimming control Input B: 4-Bit object to perform the relative dimming of the Blue colour of the ECG.
- [ECG0..63] Relative Dimming control Input W: 4-Bit object to perform the relative dimming of the White colour of the ECG.
- [ECG0..63] Relative control RGB Colour Input: 3-Byte object to perform relative dimming of the RGB Color of the ECG (DPT 254.600).
- [ECG0..63] Absolute Set value control Input: 1-Byte object that allows establishing a dimming level for the 4 channels of the ECG.
- [ECG0..63] Absolute Set value control Input R: 1-Byte object that allows establishing a dimming level of the ECG Red channel.
- [ECG0..63] Absolute Set value control Input G: 1-Byte object that allows establishing a dimming level for the Green channel of the ECG.

- [ECG0..63] Absolute Set value control Input B: 1-Byte object that allows establishing a dimming level for the Blue channel of the ECG.
- [ECG0..63] Absolute Set value control Input W: 1-Byte object that allows establishing a dimming level of the ECG White channel.
- [ECG0..63] RGB Colour Input: 3-Byte object that allows establishing a ECG RGB Color (DPT 232.600). The colour values for Red, Green, and Blue are set in the lower bytes from 0 to 100%. The 4 bits in the fifth byte determine whether the corresponding colour values are valid.
- [ECG0..63] Switch On/Off Feedback: 1-Bit object that informs about the status of the ECG.
- [ECG0..63] Dimming Value Feedback: 1-Byte object that informs about the ECG's dimming level.
- [ECG0..63] Dimming Value Feedback R: 1-Byte object that informs about the dimming level of the ECG's Red channel.
- [ECG0..63] Dimming Value Feedback G: 1-Byte object that informs about the dimming level of the Green channel of the ECG.
- [ECG0..63] Dimming Value Feedback B: 1-Byte object that informs about the dimming level of the ECG's Blue channel.
- [ECG0..63] Dimming Value Feedback W: 1-Byte object that informs about the W color of the ECG (DPT 5.001).
- [ECG0..63] RGB Colour Feedback: 3-Byte object that informs about the RGB color of the ECG (DPT 232.600).

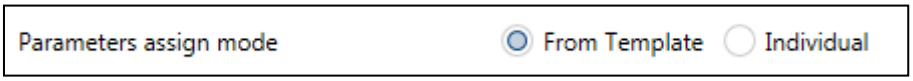
- **Enable Forced object:** allows enabling Forced Control of the ECG through the 2-Bit object "[ECG0..63] Forced Input", in which the first bit indicates whether Forced is active (Yes-1/No-0) and the second bit indicates whether the forcing is On (1) or Off (0). Its priority is higher than standard operating orders.

- **Enable Block object:** allows having a 1 Bit object to block the ECG "[ECG0..63] Lock Channel Input". If blocking is performed, all commands received from the bus to this ECG will be ignored.

- **Enable Time Function:** allows enabling the Timing Function through the 1 Bit object "[ECG0..63] Timed Start-Stop Input". The Timing parameters will be the same as those established in the Template. This function will simply perform a timed ignition with the possibility of having a pre-warning (1 second flashes) before the timing ends.

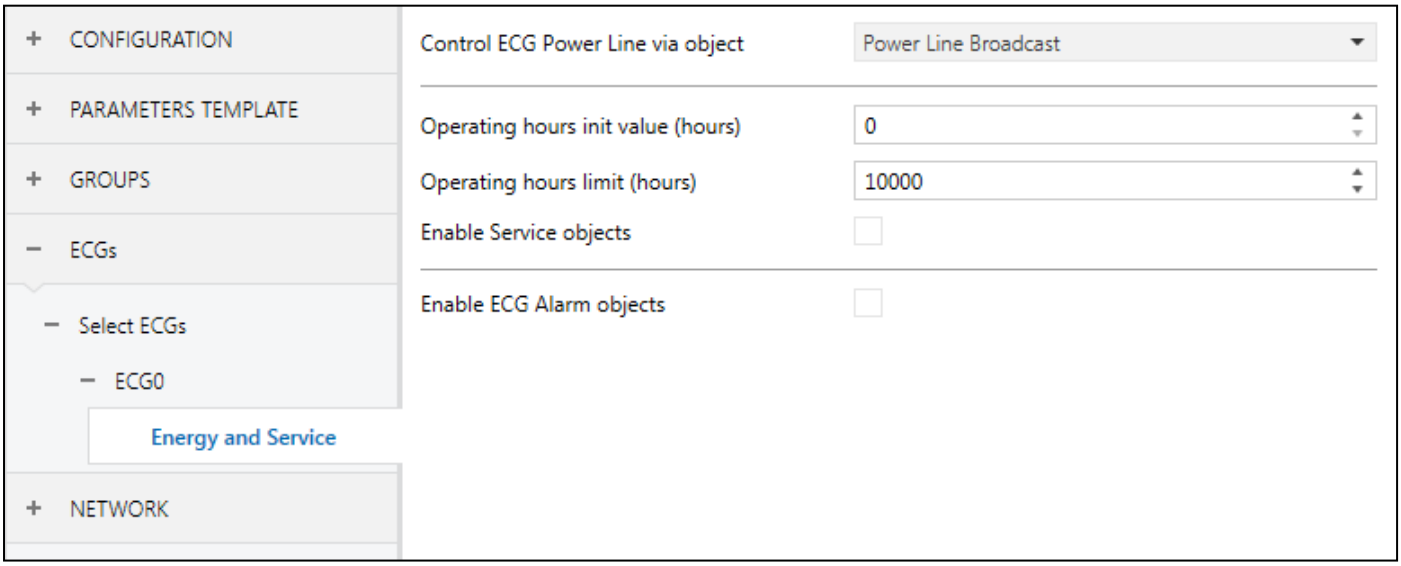


- **Parameter assign mode:** allows the application of the parameters established in the Template, or enables independent configuration regardless of the Group in question. If 'Individual' is selected, the description of each parameter is the same as that explained in the 'Template' menu.

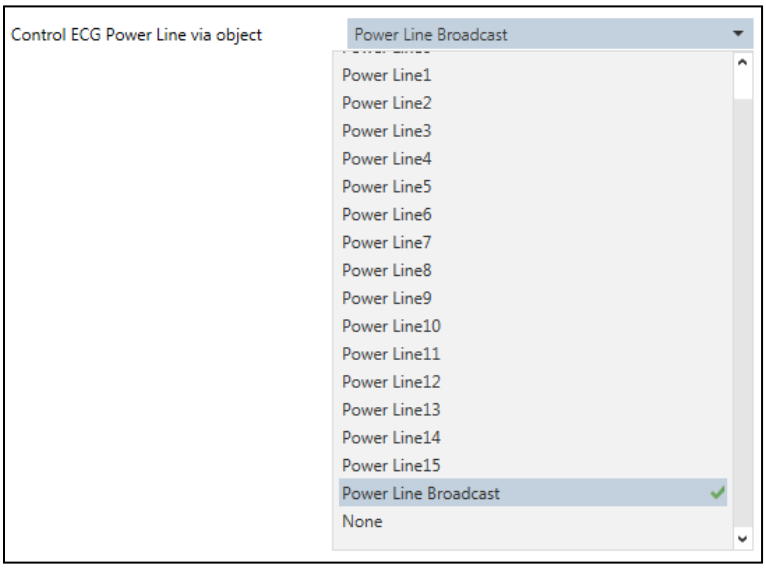


Energy and Service

Allows the establishment of settings related to energy saving, control of operating hours, and display of errors.



- **Control ECG Power Line via object:** allows controlling the standby consumption of the Group's ECGs using one of the 17 1-bit objects available. To use this functionality, the different objects must be enabled on the 'General' screen (Enable Power Line control objects).



According to the selection in the previous drop-down menu, when the ECG in question is turned off, the object set to above will automatically be set to "0" after the set delay time has elapsed, and vice versa, when the ECG is turned on, this object will be set to "0". will set to "1".

With this, and through the use of an external Switching Actuator that allows the control of the power supply of the luminaires, when the ECG is Off, the physical cut-off of the power network will be carried out.

In short, this function allows you to reduce the consumption of ECGs by controlling your power supply.

You can find a more detailed explanation in the "Energy Savings" section.

Operating hours

The Gateway allows recording operating hours for groups or individual ECGs.

This value is available through the "Operating hours" object (DPT 13.100).

Any dimming value greater than 0% will result in an increase in operating hours.

The hour counter can be reset, for example, when changing a luminaire, through the "Operating hours reset" object.

- **Operating hours init value:** allows setting an initial value from which the hours will begin to be counted.
- **Operating hours limit:** allows configuring a maximum value of operating hours, equivalent to its useful life, which activates an alarm object on the KNX Bus "Operating hours alarm". This information can be used for maintenance tasks.
- **Enable Service objects:** allows enabling the objects described above.

Failures

- **Enable Group Alarm objects:** allows enabling 2 alarm objects:
  - ECG failure: this alarm object will be set to "1" when any ECG in the Group fails.
  - Lamp Failure: this alarm object will be set to "1" when any ECG in the Group reports that the light source is damaged or there is an incorrect connection.

An ECG failure has a higher priority than a lamp failure. If an ECG failure occurs, a possible lamp failure will not be displayed.

SCENE Parameters

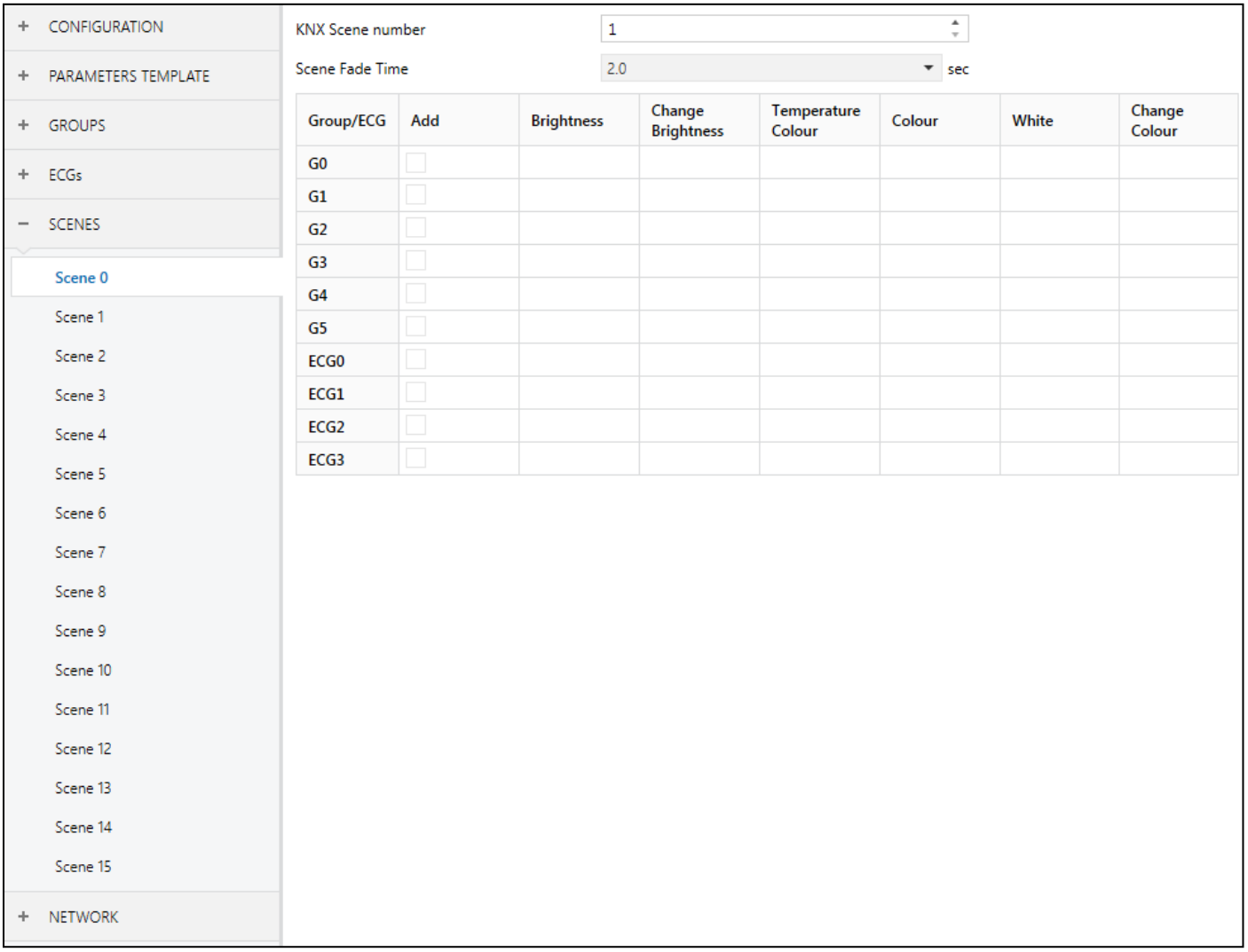
Scene configuration 0..15

The Gateway allows saving and calling up to 16 different Scenes.

A Scene is played through a 1-Byte object "[Scene] Scene call" (DPT 18.001).

Each of the Scenes can be composed of Groups and/or ECGs.

Depending on the Group Color Type or ECG, it is possible to adjust different values: Luminosity, Color Temperature, and Colour.



- **KNX Scene number:** allows assigning the desired KNX Scene number. When the Scene number is received through the 1 Byte object '[Scene] Scene call', it will be executed immediately. Each DALI Scene 0..15, listed vertically on the left, is assigned a KNX Scene number from 1 to 64.

- **Scene Fade Time:** determines the time, in seconds, that it takes for the Groups/ECGs of the Scene to reach their Scene value (luminosity) after calling it. At the end of the process, the Groups/ECGs of the Scene reach the luminosity value established in the Scene. The times are indicated according to the DALI standard.

- **Scene Configuration:** depending on the Color Type established, different configuration options will be available.

Group/ECG	Add	Brightness	Change Brightness	Temperature Colour	Colour	White	Change Colour
G0	✓	0	✓	4000	#FFFFFF	255	✓
G1	✓	0	✓				
G2	✓	0	✓				
G3	✓	0	✓				
G4	✓	0	✓				
G5	✓	0	✓				
ECG0	✓	0	✓		#FFFFFF	255	✓
ECG1	✓	0	✓				
ECG2	✓	0	✓				
ECG3	✓	0	✓				

  - **Add:** establishes whether the Group/ECG is part of the corresponding Scene.
  - **Brightness:** luminosity value (0..100%) of the Group/ECG when launching the Scene.
  - **Change Brightness:** allows you to enable or disable the change in the Group/ECG luminosity value when launching the Scene.
  - **Temperature Colour:** colour temperature (2000..10000K) of the Group/ECG when launching the Scene.
  - **Colour:** RGB colour (0..255) of the Group/ECG when launching the Scene. Options depend on Group/ECG Colour Control Type.
  - **White:** colour W (0..255) of the Group/ECG when launching the Scene.
  - **Change Colour:** allows you to enable or disable the Group/ECG colour change when launching the Scene.

SEQUENCES Parameters

Sequence Configuration 0..5

In addition to Scenes, the Gateway allows for setting Sequences.

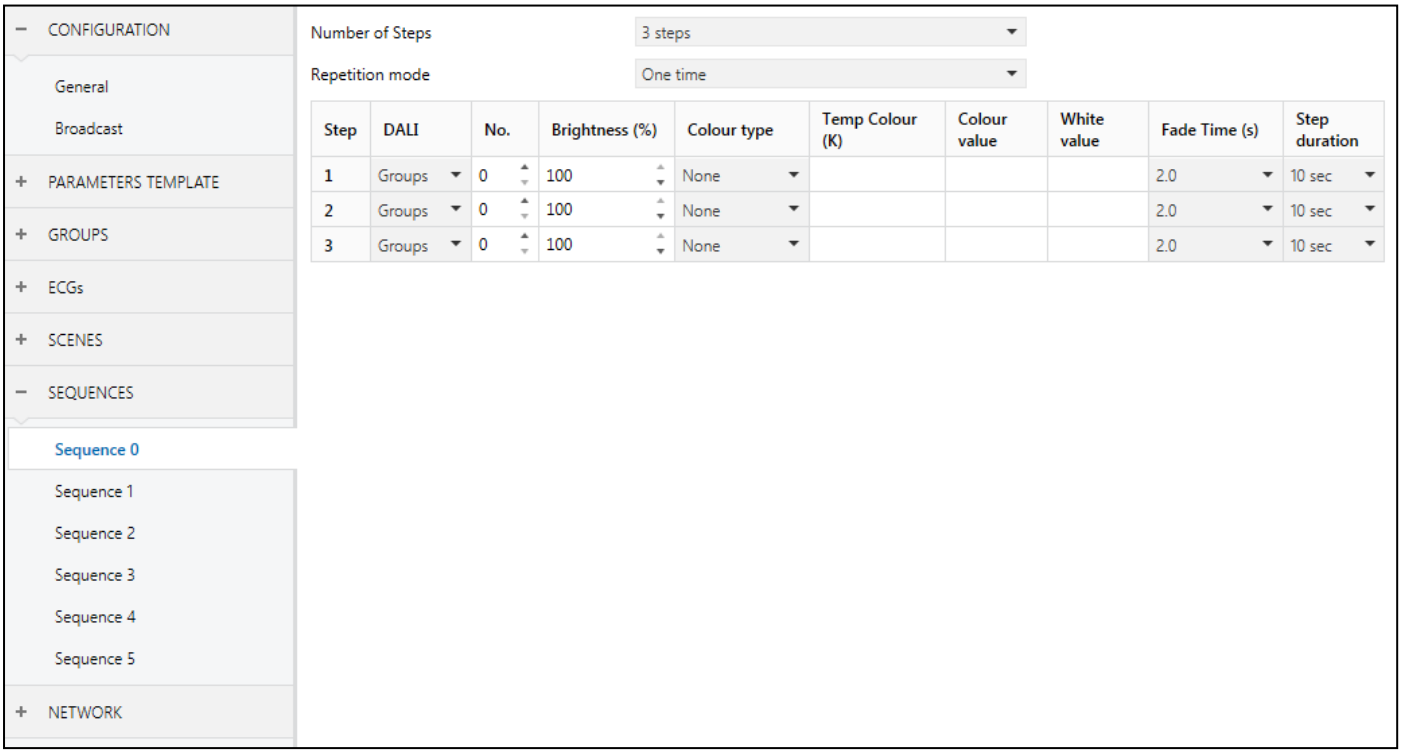
A Sequence consists of transitions between different states of Groups or/and individual ECGs.

A Sequence is a transition of states (luminosity and color values) of Groups or/and individual ECGs.

Up to 6 Sequences with up to 8 steps each are supported.

Each Sequence is started or stopped through a 1 Bit object "[Sec] Start/Stop Sequence 0..9.

Each Step of a Sequence can be associated with a Group, an individual ECG, a Scene or in Broadcast mode.

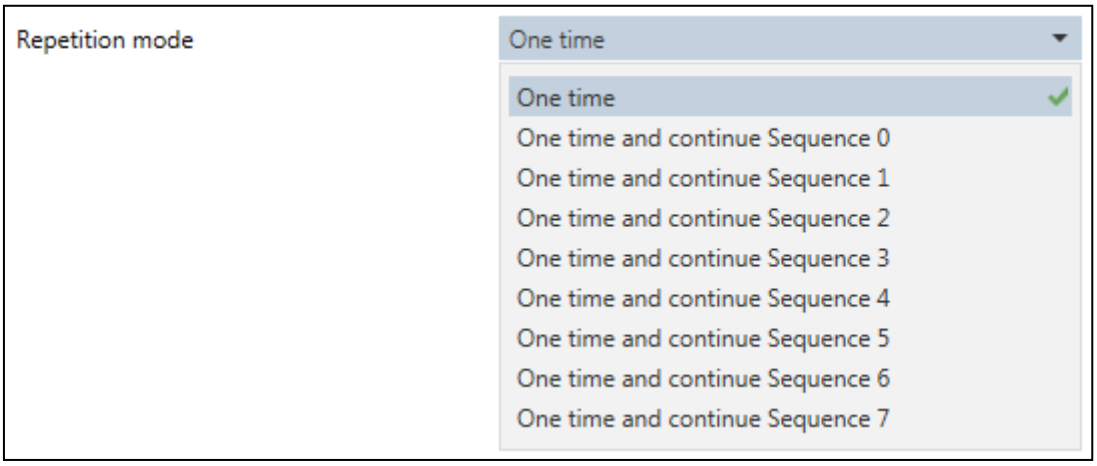


- **Number of Steps:** allows the establishment of the number of steps that will form the Sequence. Each step can be configured:

Step	DALI	No.	Brightness (%)	Colour type	Temp Colour (K)	Colour value	White value	Fade Time (s)	Step duration
1	Groups	5	100	RGBW + TC	4000	#FFFFFF	255	2.0	10 sec
2	ECGs	3	100	RGBW		#FFFFFF	255	2.0	10 sec
3	Scene	0	100	RGBW + TC	4000	#FFFFFF	255	2.0	10 sec
4	Broad...	0	100	None				2.0	10 sec

- **DALI:** establishes what the Step will be associated with: Group, individual ECG, Scene or the entire channel (Broadcast).
- **No.:** Group, ECG or Scene number to which the Step is associated.
- **Brightness:** luminosity level (0..100%) of the Step when launching the Sequence.
- **Colour Type:** Step color type. It must correspond to the color type established in the "DALI" column.
- **Temp. Colour:** colour temperature (2000..10000K) of the Step when launching the Sequence.
- **Colour value:** RGB color (0..255) of the Step when launching the Sequence.

- **White value:** color W (0..255) of the Step when launching the Sequence.
- **Fade Time:** the dimming time, in seconds, that elapses from the current brightness and color level until reaching the established values (luminosity, color) in the Step.
- **Step duration:** defines the time, from 1 second to 10 hours, of duration of the Step, that is, the time it will remain in this state. The duration of the Step includes the progression time, that is, if a Progression time = 2s is marked, and a Step Duration = 10 sec, the Step will have a total duration of 10 seconds.
- **Repetition mode:** sets the next action after the Sequence ends:

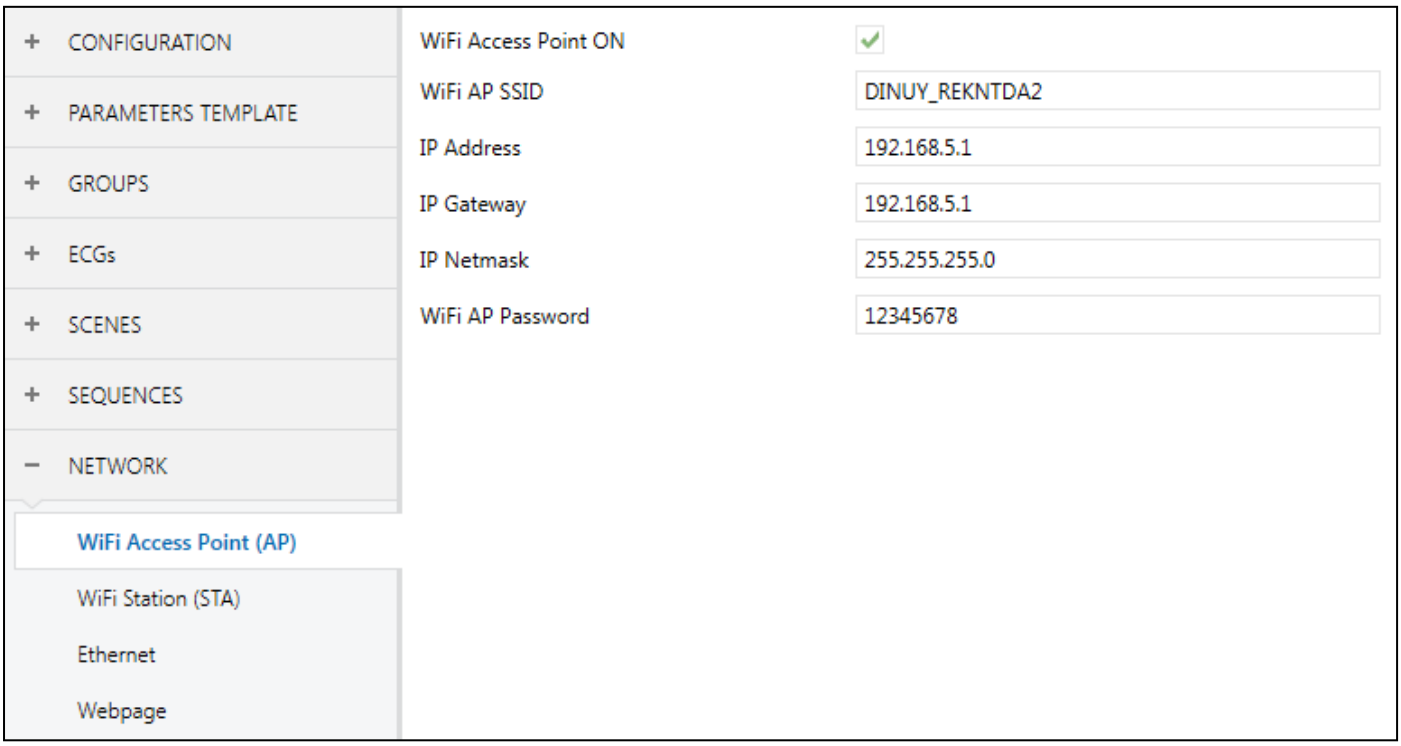


  - **One time:** the Sequence is executed only once and at the end of this, the Sequence ends and the Luminaires are turned off.
  - **One time and continues with Sequence 0..7:** The Sequence is executed once and continues with Sequence 0..7.

NETWORK

WiFi Access Point (AP)

This screen allows configuring the WiFi Access Point network settings:



- **WiFi Access Point ON:** allows you to activate or deactivate the WiFi AP communication of the Gateway. This parameter indicates the initial state after a dump. Once disabled by parameter, it would be possible to activate it using the corresponding front key, unless the corresponding key is disabled in the ETS.

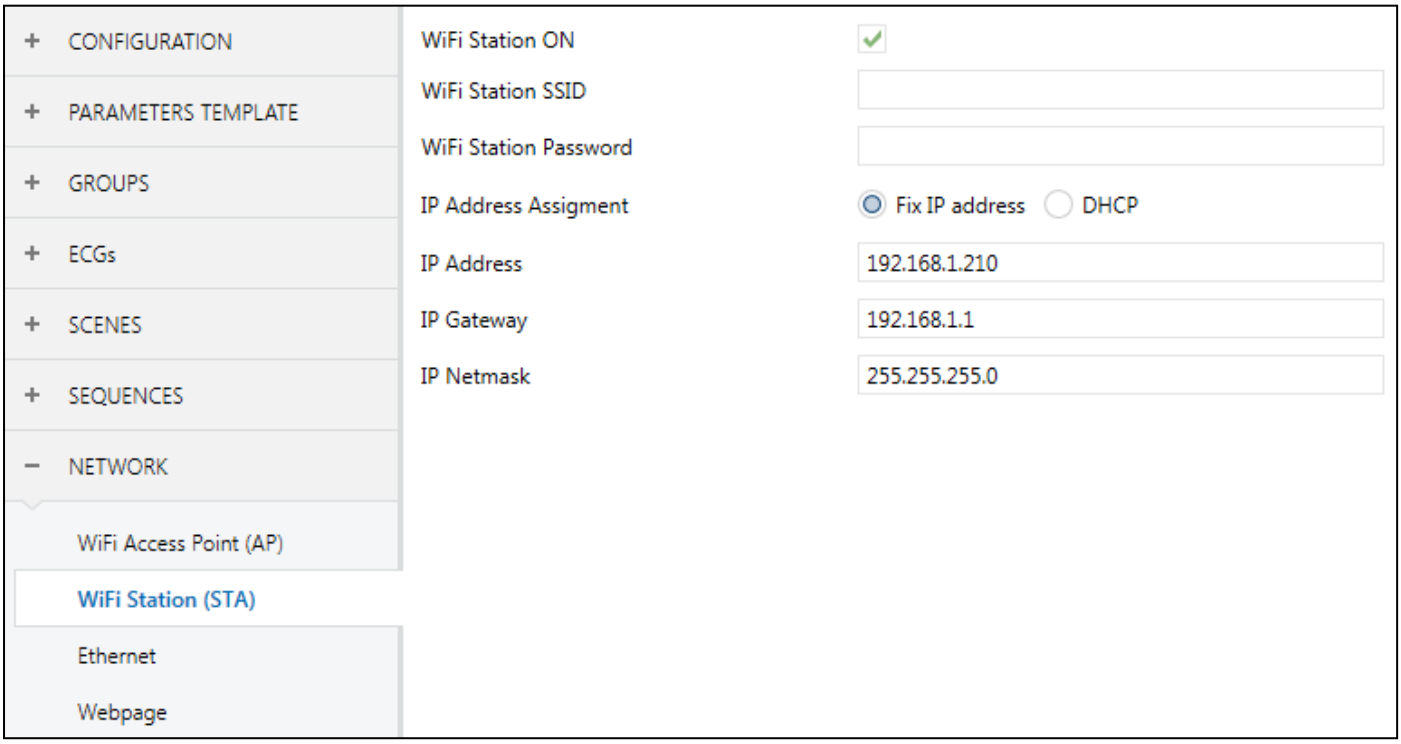
- **WiFi AP SSID:** indicates the name with which the Gateway WiFi Access Point will be identified when searching for a WiFi network with any device (PC, laptop, Tablet).

- **IP Address:** is the IP address of the generated WiFi Access Point. Sets the IP address of the Gateway through which the DALI Web Configurator can be accessed from the PC/Laptop/Tablet.

- **WiFi AP Password:** password to access the Access Point generated by the Gateway.

WiFi Station (STA)

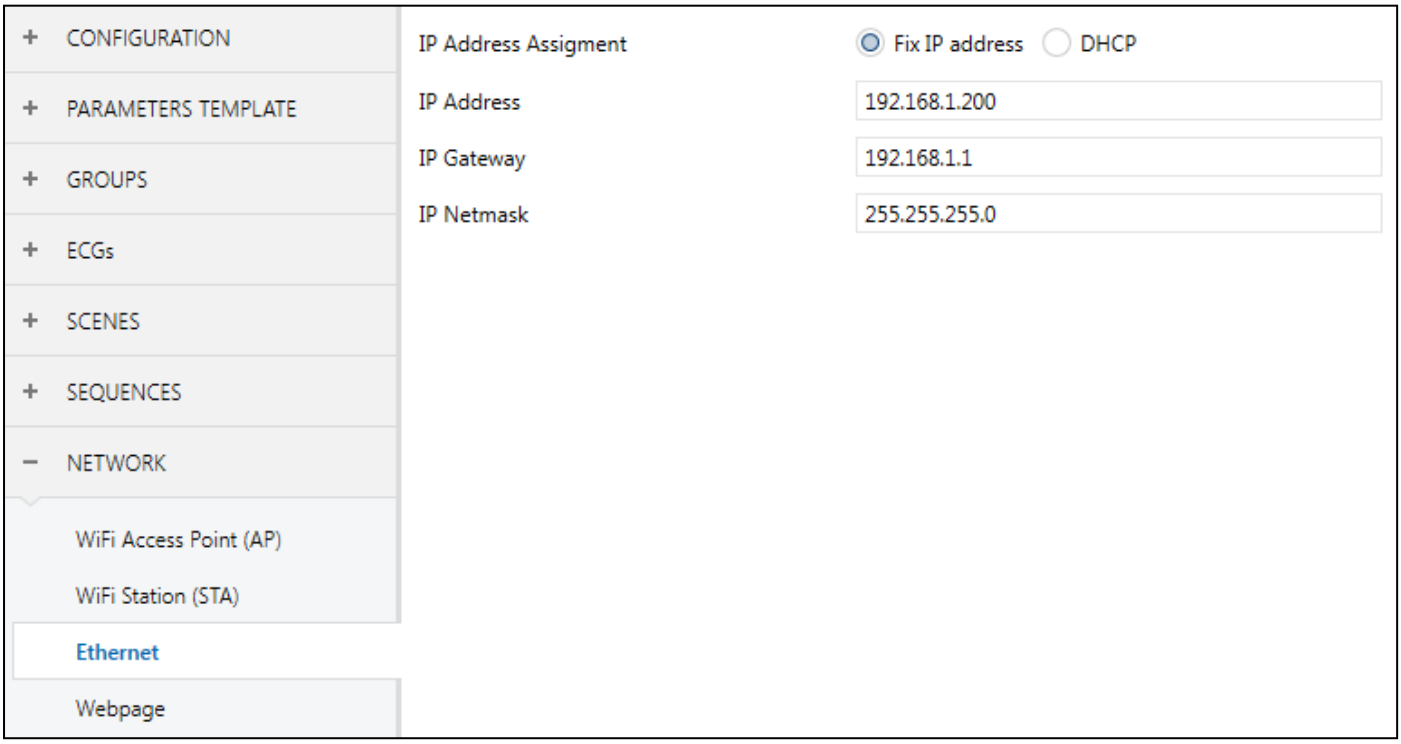
This screen allows configuring the WiFi Station network settings:



- **WiFi Station ON:** allows you to activate or deactivate the WiFi STA communication of the Gateway. By default it is disabled. If not enabled, the Gateway will not be able to connect to any local WiFi network.
- **WiFi Station SSID:** the SSID of the local WiFi station, WLAN, to which you want to connect the Gateway.
- **WiFi Station Password:** password of the local WiFi station to which the Gateway is going to connect.
- **IP Address Assignment:** Sets whether the device is assigned a fixed IP address (default) or a dynamic IP address via DHCP.
- **IP Address:** sets the IP address of the Gateway through which the DALI Web Configurator can be accessed from the PC/Laptop/Tablet.

Ethernet

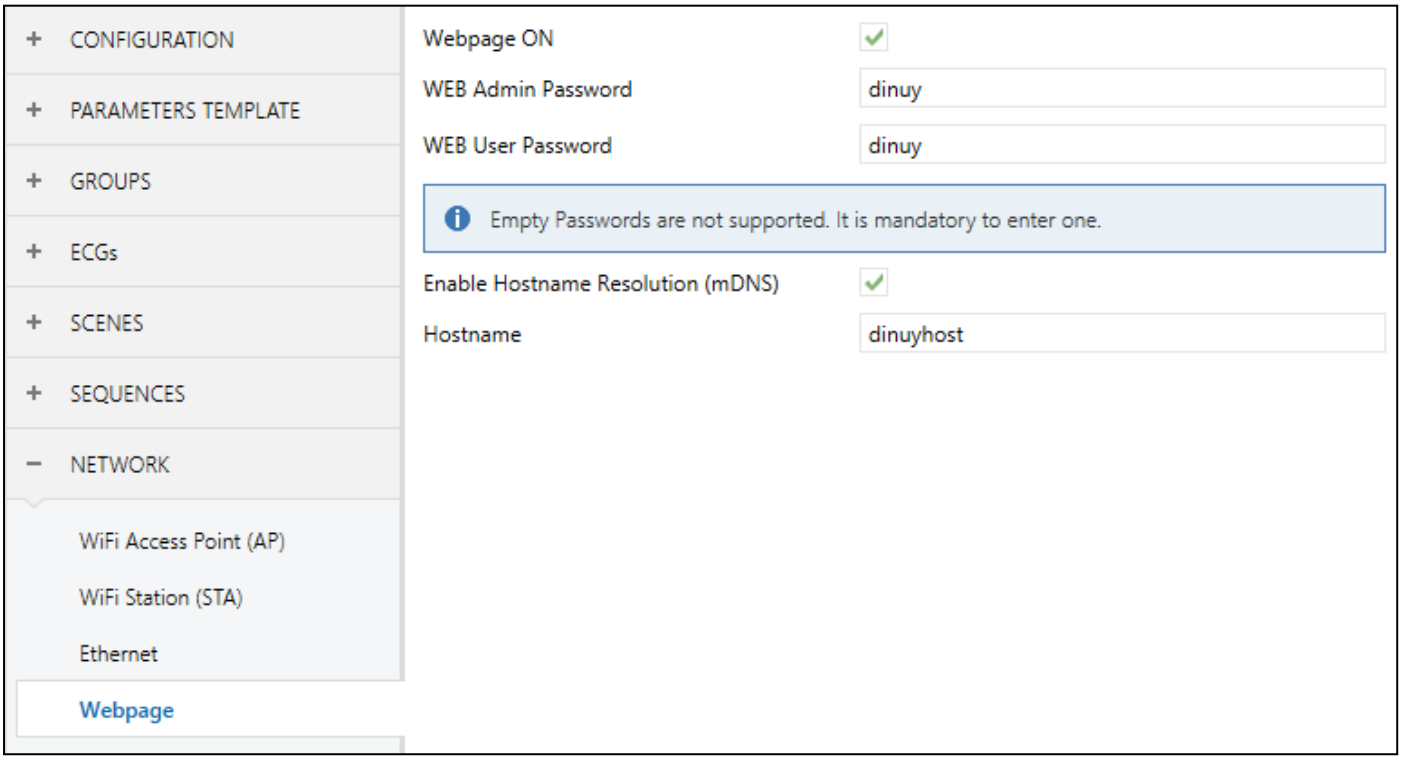
This screen allows you to configure the Ethernet network settings.



- **IP Address Assignment:** Sets whether the device is assigned a fixed IP address (default) or a dynamic IP address via DHCP.
- **IP Address:** sets the IP address of the Gateway through which the DALI Web Configurator can be accessed from the PC/Laptop.

Webpage

This screen allows you to configure the access settings to the DALI Web Configurator.



- **Webpage ON:** enables or disables the DALI Web Configurator. Its status will be reflected on the front LED of the "WEB" Gateway. You may want to deactivate it for security reasons.
- **WEB Admin Password:** allows you to modify the access password for the Administrator account. The default password is "dinuy". An empty password is not allowed, it is mandatory to enter one.
- **WEB User Password:** allows you to modify the access password of the User account. The default password is "dinuy". An empty password is not allowed, it is mandatory to enter one.
- **Enable Hostname Resolution (mDNS):** If this option is enabled (default), the Hostname can be found by the Gateway.
- **Hostname:** sets the host name. By default it is assigned the name "dinuyhost", allowing access to the Gateway through the IP. If you have more than one Gateway on the same network, it will be necessary to give them different names.

Communication Objects

The communication objects of the Gateway are summarized below:

No.	Name	Function	Length	Flags	DPT
1..16	[General] Power Line 0..15	1 = On, 0 = Off	1 Bit	--CT--	[1.1] DPT_Switch
17	[General] Power Line Broadcast	1 = On, 0 = Off	1 Bit	--CT--	[1.1] DPT_Switch
18	[Scene] Scene call	Scene Control	1 Byte	-WC---	[18.1] DPT_SceneControl
35..40	[Seq] Start/Stop Sequence 0..5	1 = Start; 0 = Stop	1 Bit	-WC---	[1.10] DPT_Start
45..50	[Seq] Sequence 0..5 Feedback	1 = On, 0 = Off	1 Bit	--CT--	[1.1] DPT_Switch
55	[General] DALI voltage error alarm	1 = Alarm, 0 = No Alarm	1 Bit	--CT--	[1.5] DPT_Alarm
57	[General] Combined Switch On/Off Feedback G0 to G15	1 = On, 0 = Off	4 Bytes	--CT--	[27.1] DPT_CombinedInfoOnOff
58	[General] Combined Switch On/Off Feedback 0 to 15	1 = On, 0 = Off	4 Bytes	--CT--	[27.1] DPT_CombinedInfoOnOff
59	[General] Combined Switch On/Off Feedback 16 to 31	1 = On, 0 = Off	4 Bytes	--CT--	[27.1] DPT_CombinedInfoOnOff
60	[General] Combined Switch On/Off Feedback 32 to 47	1 = On, 0 = Off	4 Bytes	--CT--	[27.1] DPT_CombinedInfoOnOff
61	[General] Combined Switch On/Off Feedback 48 to 63	1 = On, 0 = Off	4 Bytes	--CT--	[27.1] DPT_CombinedInfoOnOff
62, 95...	[ECG0..63] Switch On/Off Input	1 = On, 0 = Off	1 Bit	-WC---	[1.1] DPT_Switch
63, 96...	[ECG0..63] Relative Dimming control Input	Dimming control	4 Bit	-WC---	[3.7] DPT_Control_Dimming
64, 97...	[ECG0..63] Relative Dimming control Input R	Dimming control	4 Bit	-WC---	[3.7] DPT_Control_Dimming
65, 98...	[ECG0..63] Relative Dimming control Input G	Dimming control	4 Bit	-WC---	[3.7] DPT_Control_Dimming
66, 99...	[ECG0..63] Relative Dimming control Input B	Dimming control	4 Bit	-WC---	[3.7] DPT_Control_Dimming
67, 100...	[ECG0..63] Relative Dimming control Input W	Dimming control	4 Bit	-WC---	[3.7] DPT_Control_Dimming
68, 101...	[ECG0..63] Relative Dimming control Input TC	Dimming control	4 Bit	-WC---	[3.7] DPT_Control_Dimming
70, 103...	[ECG0..63] Relative control RGB Colour Input	Relative Control (3 Bytes)	3 Bytes	-WC---	[254.600] DPT_Relative_Control_RGB
70, 103...	[ECG0..63] Relative control RGBW Colour Input	Relative Control (5 Bytes)	5 Bytes	-WC---	[252.600] DPT_Relative_Control_RGBW
71, 104...	[ECG0..63] Absolute Set value control Input	0 - 100%	1 Byte	-WC---	[5.1] DPT_Scaling
72, 105...	[ECG0..63] Absolute Set value control Input R	0 - 100%	1 Byte	-WC---	[5.1] DPT_Scaling
73, 106...	[ECG0..63] Absolute Set value control Input G	0 - 100%	1 Byte	-WC---	[5.1] DPT_Scaling
74, 107...	[ECG0..63] Absolute Set value control Input B	0 - 100%	1 Byte	-WC---	[5.1] DPT_Scaling
75, 108...	[ECG0..63] Absolute Set value control Input W	0 - 100%	1 Byte	-WC---	[5.1] DPT_Scaling
76, 109...	[ECG0..63] Absolute Set Colour Temperature	0 K to 65535 K	2 Bytes	-WC---	[7.600] DPT_Absolute_Colour_Temperature
78, 111...	[ECG0..63] RGB Colour Input	RGB Colour 3x(0..100%)	3 Bytes	-WC---	[232.600] DPT_Colour_RGB
78, 111...	[ECG0..63] RGBW Colour Input	RGBW Colour 4x(0..100%)	6 Bytes	-WC---	[251.600] DPT_Colour_RGBW
79, 112...	[ECG0..63] Timed Start-Stop Input	1 = Start; 0 = Stop	1 Bit	-WC---	[1.10] DPT_Start
80, 113...	[ECG0..63] Forced Input	Forced Control	2 Bit	-WC---	[2.3] DPT_Enable_Control
81, 114...	[ECG0..63] Lock Channel Input	1 = Lock, 0 = Unlock	1 Bit	-WC---	[1.3] DPT_Enable

No.	Name	Function	Length	Flags	DPT
82, 115...	[ECG0..63] Switch On/Off Feedback	1 = On, 0 = Off	1 Bit	--CT--	[1.1] DPT_Switch
83, 116...	[ECG0..63] Dimming Value Feedback	0 - 100%	1 Byte	--CT--	[5.1] DPT_Scaling
84, 117...	[ECG0..63] Dimming Value Feedback R	0 - 100%	1 Byte	--CT--	[5.1] DPT_Scaling
85, 118...	[ECG0..63] Dimming Value Feedback G	0 - 100%	1 Byte	--CT--	[5.1] DPT_Scaling
86, 119...	[ECG0..63] Dimming Value Feedback B	0 - 100%	1 Byte	--CT--	[5.1] DPT_Scaling
87, 120...	[ECG0..63] Dimming Value Feedback W	0 - 100%	1 Byte	--CT--	[5.1] DPT_Scaling
88, 121...	[ECG0..63] Colour Temperature Feedback	0 K to 65535 K	2 Bytes	--CT--	[7.600] DPT_Absolute_Colour_Temperature
89, 122...	[ECG0..63] RGB Colour Feedback	Current Colour RGB 3x(0..100%)	3 Bytes	--CT--	[232.600] DPT_Colour_RGB
89, 122...	[ECG0..63] RGBW Colour Feedback	Current Colour RGBW 4x(0..100%)	6 Bytes	--CT--	[251.600] DPT_Colour_RGBW
90, 123...	[ECG0..63] ECG Failure	1 = Alarm, 0 = No Alarm	1 Bit	--CT--	[1.5] DPT_Alarm
91, 124...	[ECG0..63] Lamp Failure	1 = Alarm, 0 = No Alarm	1 Bit	--CT--	[1.5] DPT_Alarm
92, 125...	[ECG0..63] Operating hours	Hours	4 Bytes	R-CT--	[13.100] DPT_LongDeltaTimeSec
93, 126...	[ECG0..63] Operating hours alarm	1 = Alarm, 0 = No Alarm	1 Bit	--CT--	[1.5] DPT_Alarm
94, 127...	[ECG0..63] Operating hours reset	1 = Reset	1 Bit	-WC---	[1.15] DPT_Reset
2174, 2207...	[G0..15] Switch On/Off Input	1 = On, 0 = Off	1 Bit	-WC---	[1.1] DPT_Switch
2175, 2208...	[G0..15] Relative Dimming control Input	Dimming control	4 Bit	-WC---	[3.7] DPT_Control_Dimming
2176, 2209...	[G0..15] Relative Dimming control Input R	Dimming control	4 Bit	-WC---	[3.7] DPT_Control_Dimming
2177, 2210...	[G0..15] Relative Dimming control Input G	Dimming control	4 Bit	-WC---	[3.7] DPT_Control_Dimming
2178, 2211...	[G0..15] Relative Dimming control Input B	Dimming control	4 Bit	-WC---	[3.7] DPT_Control_Dimming
2179, 2212...	[G0..15] Relative Dimming control Input W	Dimming control	4 Bit	-WC---	[3.7] DPT_Control_Dimming
2180, 2213...	[G0..15] Relative Dimming control Input TC	Dimming control	4 Bit	-WC---	[3.7] DPT_Control_Dimming
2182, 2215...	[G0..15] Relative control RGB Colour Input	Relative Control (3 Bytes)	3 Bytes	-WC---	[254.600] DPT_Relative_Control_RGB
2182, 2215..	[G0..15] Relative control RGBW Colour Input	Relative Control (5 Bytes)	5 Bytes	-WC---	[252.600] DPT_Relative_Control_RGBW
2183, 2216...	[G0..15] Absolute Set value control Input	0 - 100%	1 Byte	-WC---	[5.1] DPT_Scaling
2184, 2217...	[G0..15] Absolute Set value control Input R	0 - 100%	1 Byte	-WC---	[5.1] DPT_Scaling
2185, 2218...	[G0..15] Absolute Set value control Input G	0 - 100%	1 Byte	-WC---	[5.1] DPT_Scaling
2186, 2219...	[G0..15] Absolute Set value control Input B	0 - 100%	1 Byte	-WC---	[5.1] DPT_Scaling
2187, 2220...	[G0..15] Absolute Set value control Input W	0 - 100%	1 Byte	-WC---	[5.1] DPT_Scaling
2188, 2221...	[G0..15] Absolute Set Colour Temperature	0 K to 65535 K	2 Bytes	-WC---	[7.600] DPT_Absolute_Colour_Temperature

No.	Name	Function	Length	Flags	DPT
2190, 2223...	[G0..15] RGB Colour Input	RGB Colour 3x(0..100%)	3 Bytes	-WC---	[232.600] DPT_Colour_RGB
2190, 2223...	[G0..15] RGBW Colour Input	RGBW Colour 4x(0..100%)	6 Bytes	-WC---	251.600] DPT_Colour_RGBW
2191, 2224...	[G0..15] Timed Start-Stop Input	1 = Start; 0 = Stop	1 Bit	-WC---	[1.10] DPT_Start
2192, 2225...	[G0..15] Forced Input	Control Forzado	2 Bit	-WC---	[2.3] DPT_Enable_Control
2193, 2226...	[G0..15] Lock Channel Input	1 = Lock, 0 = Unlock	1 Bit	-WC---	[1.3] DPT_Enable
2194, 2227...	[G0..15] Switch On/Off Feedback	1 = On, 0 = Off	1 Bit	--CT--	[1.1] DPT_Switch
2195, 2228...	[G0..15] Dimming Value Feedback	0 - 100%	1 Byte	--CT--	[5.1] DPT_Scaling
2196, 2229...	[G0..15] Dimming Value Feedback R	0 - 100%	1 Byte	--CT--	[5.1] DPT_Scaling
2197, 2230...	[G0..15] Dimming Value Feedback G	0 - 100%	1 Byte	--CT--	[5.1] DPT_Scaling
2198, 2231...	[G0..15] Dimming Value Feedback B	0 - 100%	1 Byte	--CT--	[5.1] DPT_Scaling
2199, 2232...	[G0..15] Dimming Value Feedback W	0 - 100%	1 Byte	--CT--	[5.1] DPT_Scaling
2200, 2233...	[G0..15] Colour Temperature Value Feedback	0 K to 65535 K	2 Bytes	--CT--	[7.600] DPT_Absolute_Colour_Temperature
2201, 2234...	[G0..15] RGB Colour Feedback	Current Colour RGB 3x(0..100%)	3 Bytes	--CT--	[232.600] DPT_Colour_RGB
2201, 2235...	[G0..15] RGBW Colour Feedback	Current Colour RGBW 4x(0..100%)	6 Bytes	--CT--	[251.600] DPT_Colour_RGBW
2202, 2236...	[G0..15] ECG Failure	1 = Alarm, 0 = No Alarm	1 Bit	--CT--	[1.5] DPT_Alarm
2203, 2237...	[G0..15] Lamp Failure	1 = Alarm, 0 = No Alarm	1 Bit	--CT--	[1.5] DPT_Alarm
2204, 2238...	[G0..15] Operating hours	Hours	4 Bytes	R-CT--	[13.100] DPT_LongDeltaTimeSec
2205, 2239...	[G0..15] Operating hours alarm	1 = Alarm, 0 = No Alarm	1 Bit	--CT--	[1.5] DPT_Alarm
2206, 2240...	[G0..15] Operating hours reset	1 = Reset	1 Bit	-WC---	[1.15] DPT_Reset
2702	[Broadcast] Switch On/Off Input	1 = On, 0 = Off	1 Bit	-WC---	[1.1] DPT_Switch
2711	[Broadcast] Absolute Set value control Input	0 - 100%	1 Byte	-WC---	[5.1] DPT_Scaling
2716	[Broadcast] Absolute Set Colour Temperature	0 K to 65535 K	2 Bytes	-WC---	[7.600] DPT_Absolute_Colour_Temperature
2718	[Broadcast] RGB Colour Input	RGB Colour 3x(0..100%)	3 Bytes	-WC---	[232.600] DPT_Colour_RGB
2718	[Broadcast] RGBW Colour Input	RGBW Colour 4x(0..100%)	6 Bytes	-WC---	[251.600] DPT_Colour_RGBW
2719	[Broadcast] Timed Start-Stop Input	1 = Start; 0 = Stop	1 Bit	-WC---	[1.10] DPT_Start
2720	[Broadcast] Forced Input	Forced control	2 Bit	-WC---	[2.3] DPT_Enable_Control
2721	[Broadcast] Block Input	1 = Lock, 0 = Unlock	1 Bit	-WC---	[1.3] DPT_Enable
2722	[Broadcast] Switch On/Off Input	1 = On, 0 = Off	1 Bit	--CT--	[1.1] DPT_Switch
2723	[Broadcast] Dimming Value Feedback	0 - 100%	1 Byte	--CT--	[5.1] DPT_Scaling
2728	[Broadcast] Colour Temperature Value Feedback	0 K to 65535 K	2 Bytes	--CT--	[7.600] DPT_Absolute_Colour_Temperature
2729	[Broadcast] RGB Colour Feedback	Current Colour RGB 3x(0..100%)	3 Bytes	--CT--	[232.600] DPT_Colour_RGB
2729	[Broadcast] RGBW Colour Feedback	Current Colour RGBW 4x(0..100%)	6 Bytes	--CT--	[251.600] DPT_Colour_RGBW