

DALI-2 2Ch LED Dimmer CC

Datasheet Control Gear

2-channel LED Dimmer (CC, DT6)

common plus connector

Art. Nr. 89453845-350 (350mA)

Art.Nr. 89453845-350DE (350mA)

Art. Nr. 89453845-500 (500mA)

Art. Nr. 89453845-500DE (500mA)

Art. Nr. 89453845-700 (700mA)

Art. Nr. 89453845-1000 (1000mA)

common minus connector

Art.Nr. 89453845-350GMDE (350mA)

Art.Nr. 89453845-500GMDE (500mA)

Art. Nr. 89453845-700GM (700mA)

Art. Nr. 89453845-1000GM (1000mA)



DALI-2 2Ch LED-Dimmer CC Control Gear

Overview

- 2 channel DALI LED-Dimmer
- suitable for constant current LED-modules
- **Operating Mode DT6:** individual channel control via 2 DALI addresses
- **Operating Mode Balance&Dim:** control by 2 DALI-addresses, one for adjusting the light level and one for adjusting the channel balance (e.g. colour temperature)
- **Operating Mode Dim2Warm:** one DALI-address for simultaneous adjustment of light level and colour temperature
- **SwitchDim2:** 2 switch-inputs offer control of light level and colour without DALI.
- dimming range 0.1%-100%
- adjustable PWM-frequency (122Hz/244Hz/488Hz/976Hz from FW version 4.6 on changed PWM frequencies: 250Hz / 500Hz / 1kHz)
- types for constant currents of 350mA, 500mA, 700mA and 1000mA
- types with common plus and common minus connector available
- compact types for integration in luminaires or remote ceiling
- supply voltage from 12V to 48V DC
- output voltage up to 45VDC
- integrated short circuit protection
- low standby power consumption
- high efficiency
- configuration via PC-software DALI-Cockpit and DALI interface (e.g. DALI USB)
- user-friendly factory default settings



Specification, Characteristics

Common plus connector (GP)

type	DALI 2Ch CC 350/500mA	DALI 2Ch CC 350/500mA DE	DALI 2Ch CC 700mA	DALI 2Ch CC 1000mA
article number	89453845-350/ 89453845-500	89453845- 350DE/500DE	89453845- 700	89453845- 1000

supply: V+, V- (GND)

type of input	supply, DC			
marking terminals	+, GND	V+, V-		
supply voltage V_{in}	12V DC ... 48V DC (SELV)			
max. input current I_{inmax}	700/1000 mA	700/1000mA	1400mA	2000mA

rated power @12W	8,4/12W	8,4/12W	16,8W	24W
rated power @48W	33/48W	33/48W	67W	96W
standby power consumption	~ 180mW @12V			
power on behaviour	configurable via DALI: 0%-100% or last actual level			

input: DA, DA

input type	DALI, control input			
marking terminals	DA, DA			
input voltage range	9,5V ... 22,5V (according to IEC62386-101)			
current consumption DALI	2mA			
overvoltage protection	250V			
number of DALI-addresses	operating mode DT6, Balance&Dim: 2 operating mode Dim2Warm: 1			

input: N, SW&DIM2-1, SW&DIM2-2

Input type	-	SwitchDim2 control input		
marking terminals	-	N; SW&DIM2-1 (DA); SW&DIM2-2 (DA)		
number of inputs	-	2		
input voltage	-	230V AC \pm 10%		
frequency of input voltage	-	50Hz		
control pulse length	-	short press: >40ms, long press: > 400ms		
input resistance	-	200k Ω		
max. voltage between inputs	-	230V AC		

output: LED+, Ch1-, Ch2-

output type	LED dimmer, constant current PWM			
marking terminals	LED+, Ch1-, Ch2-			
number of outputs	2			
PWM frequency	FW: < 4.6: 122Hz/244Hz/488Hz/976Hz FW: \geq 4.6: 250Hz/ 500Hz / 1kHz			
output voltage range V_{led}	3V-45V (at 48V supply)			
max. output current per channel I_{led}	350/500 mA	350/500mA	700mA	1000mA
max. output power per channel @45V	15,75/22,5 W	15,75/22,5 W	31,5 W	45W
overload protection	yes			
open circuit protection	yes			
short circuit protection	yes			

insulation data

impulse voltage category	II			
pollution degree	2			
rated insulation voltage	250V			
rated impulse withstanding voltage	4kV			
Isolation				
supply <-> output	no insulation			
DALI/Sw&Dim2 <-> output/supply	reinforced isolation			
DALI/Sw&Dim2 <-> housing	reinforced isolation			
Insulation test voltage	3000VAC			

environmental conditions

operational ambient temperature T_a	-20°C ... +60°C			
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storing and transportation temperature	-20°C ... +75°C
rel. humidity, none condensing	15% ... 90%

general data

dimensions (l x w x h)	59 x 33 x 15mm	120 x 30 x 22mm	120mm x 41mm x 22mm
mounting	back box	remote ceiling, integration in class II luminaires	
rated maximum temperature tc	75°C		
expected lifetime (T<Tc)	>100.000h		
housing material	PC, class V0		
protection class	II in intended use		
protection degree housing	IP40		
protection degree terminals	IP20		

terminals: V+, V-

connection type	See section terminals DA, DA, N, LED+, Ch1-, Ch2-	spring terminal connector (cage clamp)
wire size solid core		0,08 ... 2,5mm ² (AWG 28 ... AWG 12)
wire size fine wired		0,08 ... 2,5mm ² (AWG 28 ... AWG 12)
wire size using wire end ferrule		0,25 ... 1,5mm ²
stripping length		5 ... 6mm / 0,2 ... 0,24 inch
housing material		PA66, class V0
actuation type		operating tool

terminals: DA, DA, N, LED+, Ch1-, Ch2-

connection type	spring terminal connector (push in cage clamp)
wire size solid core	0,2 ... 1,5mm ² (AWG 24 ... AWG 16)
wire size fine wired	0,2 ... 1,5mm ² (AWG 24 ... AWG 16)
wire size using wire end ferrule	0,25 ... 1mm ²
stripping length	8,5 ... 9,5mm / 0,33 ... 0,37 inch
housing material	PA66, class V0
actuation type	push button

standards

DALI	EN 62386-101, EN 62386-102, EN 62386-207
EMC	EN 61547 EN 55015 / IEC CISPR15
electrical safety	EN 61347-2-13 EN 61357-1
performance	EN 62384
markings	CE, UKCA, DALI-2

on request: output currents from 100mA to 1000mA available

Common minus connector (GM)

type	DALI 2CH CC 350/500mA GM DE	DALI 2CH CC 700mA GM	DALI 2Ch CC 1000mA GM
article number	89453845- 350GMDE/500GMDE	89453845-700GM	89453845-1000GM

supply: V+, V-

type of input	supply, DC		
marking terminals	V+, V-		
supply voltage U_{in}	12V DC ... 48V DC (SELV)		
max. input current I_{in_max}	700/1000mA	1400mA	2000mA
rated power @12V	8,4/12W	16,8W	24W
rated power @48V	33 /48W	67W	96W
standby power consumption	~ 180 mW @12V		
power on behaviour	configurable via DALI: 0%-100% or last actual level		

input: DA, DA

input type	DALI, control input		
marking terminals	DA, DA		
input voltage range	9,5V ... 22,5V (according to IEC62386-101)		
max. current consumption DALI	2mA		
overvoltage protection	250V		
number of DALI-addresses	operating mode DT6, Balance&Dim: 2 operating mode Dim2Warm: 1		

input: N, SW&DIM2-1, SW&DIM2-2

input type	SwitchDim2 control input		
marking terminals	N; SW&DIM2-1 (DA); SW&DIM2-2 (DA)		
number of inputs	2		
input voltage	230V AC \pm 10%		
frequency of input voltage	50Hz		
control pulse length	short press: >40ms, long press: > 400ms		
input resistance	200k Ω		
max. voltage between inputs	230V AC		

output: LED-, Ch1+, Ch2+

output type	LED dimmer, constant current PWM		
marking terminals	LED-, Ch1+, Ch2+		
number of outputs	2		
PWM frequency	FW: < 4.6: 122Hz/244Hz/488Hz/976Hz FW: \geq 4.6: 250Hz/ 500Hz / 1kHz		
output voltage range V_{led}	3V-45V (at 48V supply)		
max. output current per channel I_{led}	350/500mA	700mA	1000mA
max. output power per channel @45V	15,75/22,5W	31,5W	45W
overload protection	yes		
open circuit protection	yes		
short circuit protection	yes		

insulation data

impulse voltage category	II		
pollution degree	2		

rated insulation voltage	250V
rated impulse withstanding voltage	4kV
insulation	
supply <-> output	no insolation
DALI/Sw&Dim2 <-> output/supply	reinforced isolation
DALI/Sw&Dim2 <-> housing	reinforced isolation
Insulation test voltage	3000VAC

environmental conditions

operational ambient temperature	-20°C ... +60°C
storing and transportation temperature	-20°C ... +75°C
rel. humidity, none condensing	15% ... 90%

general data

dimensions (l x w x h)	120 x 30 x 22mm	120mm x 41mm x 22mm
mounting	remote ceiling, integration in class II luminaires	
rated maximum temperature tc	75°C	
expected lifetime (T<Tc)	>100.000h	
housing material	PC, class V0	
protection class	II in intended use	
protection degree housing	IP40	
protection degree terminals	IP20	

terminals: V+, V-

connection type	spring terminal connector (cage clamp)
wire size solid core	0,08 ... 2,5mm ² (AWG 28 ... AWG 12)
wire size fine wired	0,08 ... 2,5mm ² (AWG 28 ... AWG 12)
wire size using wire end ferrule	0,25 ... 1,5mm ²
stripping length	5 ... 6mm / 0,2 ... 0,24 inch
housing material	PA66, class V0
actuation type	operating tool

terminals: DA, DA, N, LED-, Ch1+, Ch2+

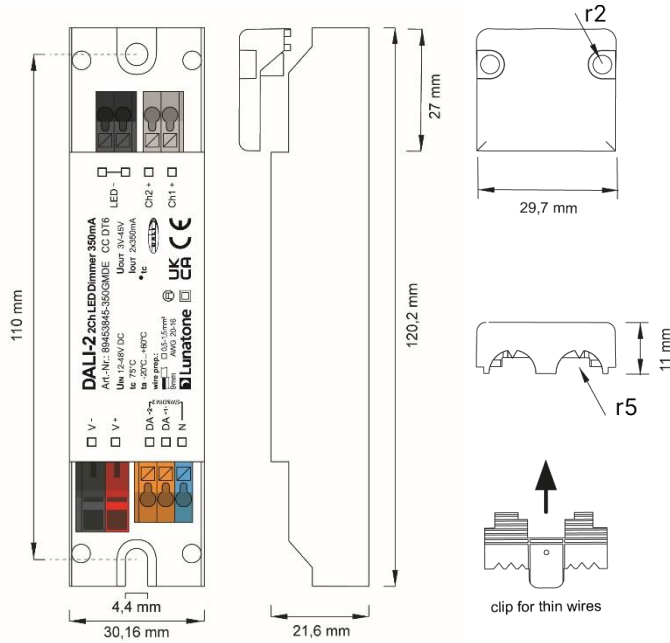
connection type	spring terminal connector (push in cage clamp)
wire size solid core	0,2 ... 1,5mm ² (AWG 24 ... AWG 16)
wire size fine wired	0,2 ... 1,5mm ² (AWG 24 ... AWG 16)
wire size using wire end ferrule	0,25 ... 1mm ²
stripping length	8,5 ... 9,5mm / 0,33 ... 0,37 inch
housing material	PA66, class V0
actuation type	push button

standards

DALI	EN 62386-101, EN 62386-102, EN 62386-207
EMC	EN 61547 EN 55015 / IEC CISPR15
electrical safety	EN 61347-2-13 , EN 61357-1
performance	EN 62384
markings	CE, UKCA, DALI-2

on request: output currents from 100mA to 1400mA available

Dimensions for constant currents up to 500mA (700mA on request), common minus

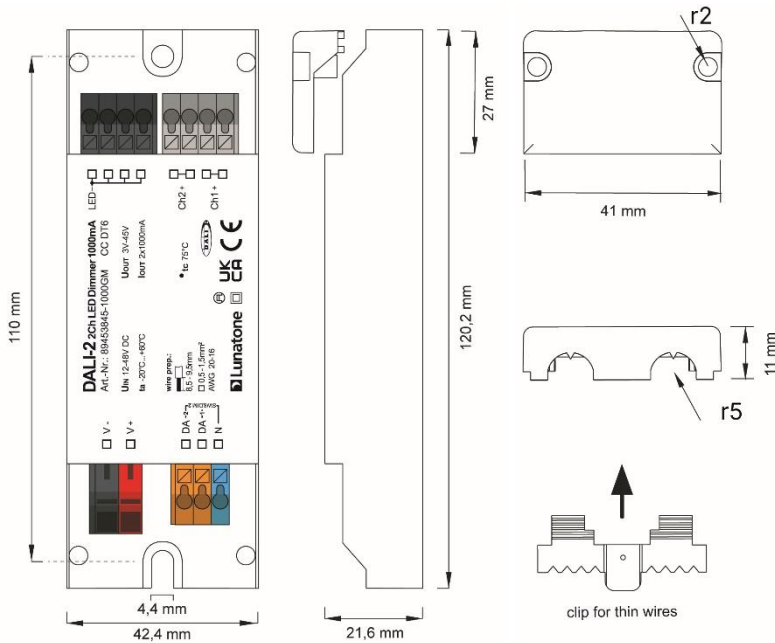


dimensions remote ceiling

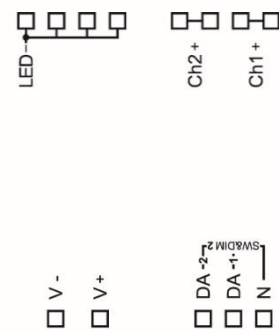


connection plan remote ceiling

Dimensions for constant currents > 500mA, common minus



dimensions remote ceiling



connection plan remote ceiling

Installation

- The DALI 2Ch LED Dimmer is an independent control gear, it is suitable for remote ceiling and integration in luminaires.
- Ensure proper working cable relief for installation in protection class II equipment.
- The wiring should be carried out as a permanent installation in a dry and clean environment.
- Installation may only be carried out in a voltage-free state of the system and by qualified specialists.
- National regulations for setting up electrical systems must be followed.
- Connect the terminals V+ and V- only to a DC supply voltage of category SELV (Safety Extra Low Voltage).
- the connection to the DALI-line (DA,DA) is polarity free .
- If used in Sw&Dim2 mode for both inputs the same phase has to be used.
- The DALI-interface can handle mains voltage, protecting the device in case wrong wiring.



Hint:

For highest efficiency the input voltage should range between 3V and 10V above the LED-voltage:

- 4-6 LEDs: 24V
- 6-9LEDs: 36V
- 10-12 LEDs: 48V

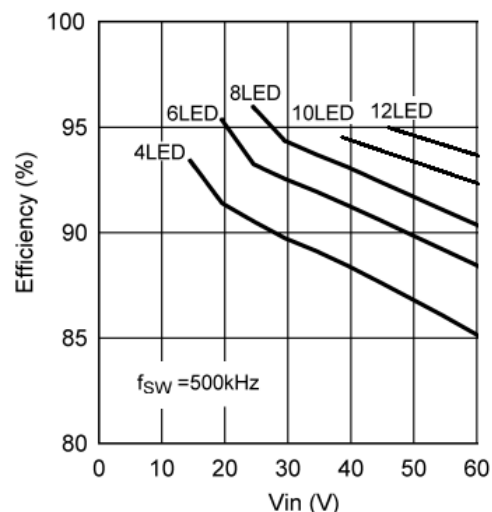
- Wiring topology of the DALI-line: line, tree, star
- Connect only one wire on each terminal, if twin ferrules are used take care to the maximum wire size.
- The DALI wiring can be realised with standard low-voltage installation material. No special cables are required.
- The DALI line may be routed together with the mains voltage (in one cable or as single wires in a tube).



Attention: The DALI-signal is not classified as SELV circuit (Safety Extra Low Voltage). Therefore, the installation regulations for low voltage apply.

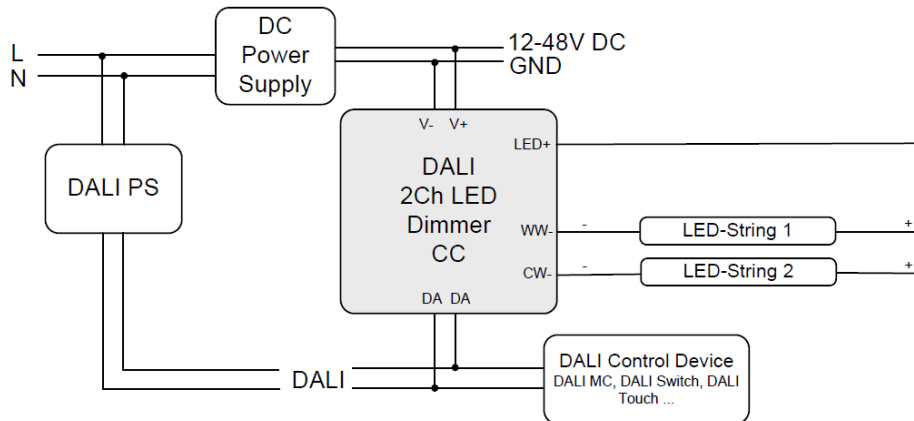


The voltage drop on the DALI line must not exceed 2V at maximum length (300m) and maximum bus load (250mA).

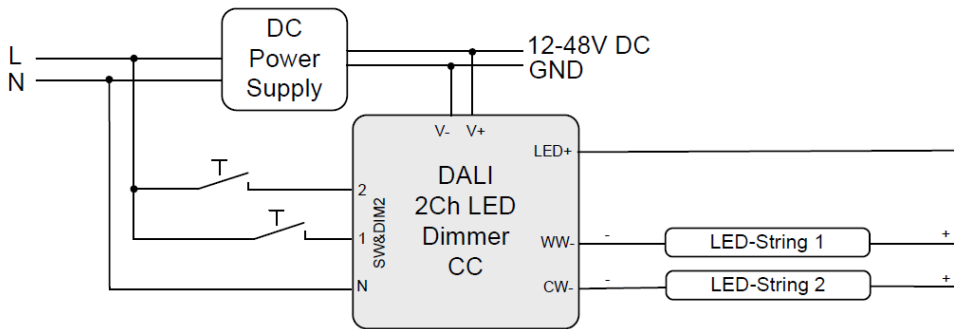


Application Example

DALI (common plus connector type)



SwitchDim2 (common plus connector type)



Commissioning

- After connection the 2Ch Dimmer is ready to use. Delivery default settings see page 16.
- The DALI-2 2Ch Dimmer can be addressed with the DALI Cockpit PC Software. When using the [DALI Cockpit Software](#), the PC must be connected to the DALI bus via a suitable interface module ([DALI-2 USB](#); [DALI USB](#), [DALI-2 WLAN](#), [DALI-2 Display](#), [DALI-2 IoT](#), [DALI 4Net](#), [DALI SCI RS232](#)). The DALI Dimmer is automatically recognised by the DALI Cockpit during the addressing process and listed in the device overview.
- Scene values, groups, DALI parameters and device specific settings can be configured in the DALI Cockpit, see section [DALI Cockpit: General Settings](#) page 12 and following.

Operating Modes

The device offers several operating modes:

DT6 (factory default)

In this operating mode each channel can be controlled by its own DALI address (Device Type 6). From FW version 4.6 on Lunatone LED Dimmer are DALI 2 compatible and support DALI 2 commands.

SwitchDim2: Alternatively, the device can be controlled using 2 switch-inputs for mains voltage (SwitchDim2):

SW&DIM2-1: light level

short press: On/Off

long press: dimming

SW&DIM2-2: scene selector (short press)

scene pre-set see *Table 1* page 16

Balance&Dim

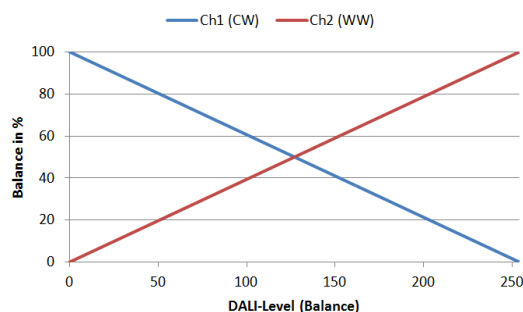
This operating mode is also suitable for operating tunable white luminaires using two DALI-addresses. The first controls the light level and the second is used for changing the distribution on the output channels (e.g. for tunable white applications or balancing direct/indirect lighting).

The Balance&Dim mode allows colour temperature adjustments without affecting the light level and vice versa. For each channel only DALI-standard commands like dim up/down but also DAP are used. Thus, the device can be used with all common controls and gateways (e.g. KNX). The Balance&Dim mode provides an alternative to the DT8-Tc mode.

Can be operated via DALI or SwitchDim2:

DALI-address 1, SW&DIM2-1: light level

DALI-address 2, SW&DIM2-2: balance



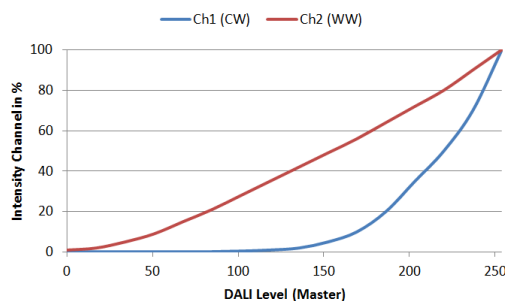
Dim2Warm

Both output channels are controlled by one DALI-address or Sw&Dim2-input. The balance is coupled directly to the DALI dim level – the smaller the dim level the warmer the light.

DALI-address / SW&DIM2-1: Dim2Warm (Master)

short press: On/Off

long press: dimming

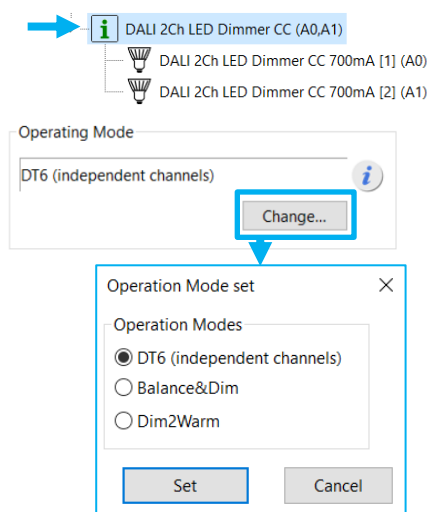


SW&DIM2-2: scene selector

The dim2warm table can be edited in the DALI Cockpit Software – see section DALI Cockpit: General Settings and page 12 (Overview operating mode Dim2Warm).

Selection of operating mode

With the help of the PC-software tool DALI-Cockpit the operating mode can be easily set on the general settings page.



Switching between operating modes can also be done with the help of the DALI-command SET OPERATING MODE (IEC 62386-102 Ed.2). When changing the operating mode the number of used DALI-addresses can change as well and this requires a new addressing procedure. In the DALI-Cockpit this address assignment is performed automatically.

Operating Mode:

Number	Operating Mode
0x0	DT6 (factory default)
0x90	DT6
0x94	Balance&Dim
0x95	Dim2Warm

DALI Cockpit: General Settings

On the overview page respective control elements are available for each operating mode

- *DT6*: 2 sliders, one for the light level of each respective channel
- *Balance&Dim*: 2 sliders, one for level and one for balance,
- *Dim2Warm*: slider for input value adaption and Edit-Function for the Dim2Warm-table.

PWM Frequency

The PWM frequency can be selected:

122Hz / 244Hz / 488Hz / 976Hz.

From FW version 4.6 changed PWM frequencies: 250Hz / 500Hz / 1kHz.

Ignore Broadcast Commands

The broadcast control of each channel can be deactivated individually. Through selection of "Ignore Broadcast", the respective channel does no longer respond to broadcast commands on the DALI bus (group assignments are not ignored).

Adjustable RESET behaviour

From FW 4.6. on the response to a DALI reset command is configurable. The following options are available:

- *Ignore command*: the DALI reset command does not trigger any changes to the device settings.
- *DALI standard*: the selected device settings are reset to the values defined in the DALI standard (see table 1 below - second column: DALI standard values)
- *Custom settings*: the current device settings can be saved. With a DALI Reset command, the selected parameters (6 check boxes) are then reset to these saved values.

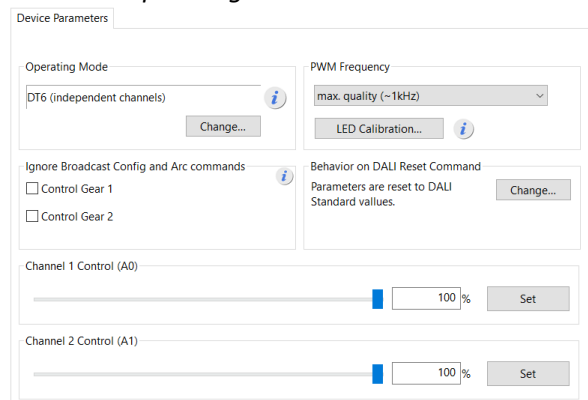
Calibration - light adjustment

The dimming range reaches from 0.1% to 100%. From FW version 4.6 on, it is possible to calibrate different light sources, with the option: "LED Calibration".

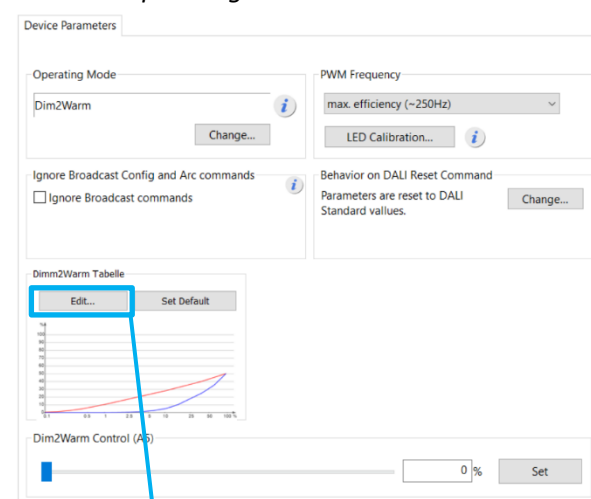
For each channel, the MIN level (default: 0.1%) an intermediate value (default: 33%) and the MAX level (default: 100%) can be adjusted and matched between light sources.

To do this, the desired level with the upper slider needs to be set. Apply the value and start the fine adjustment by pressing the button next to it. The appropriate fine adjustments can now be made with the calibration slider below. See also Figure 1

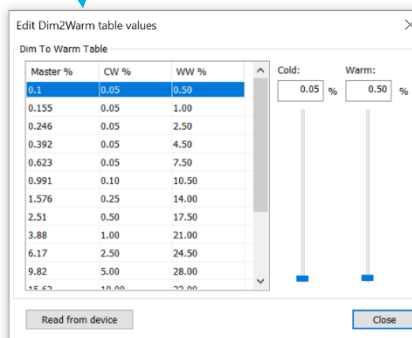
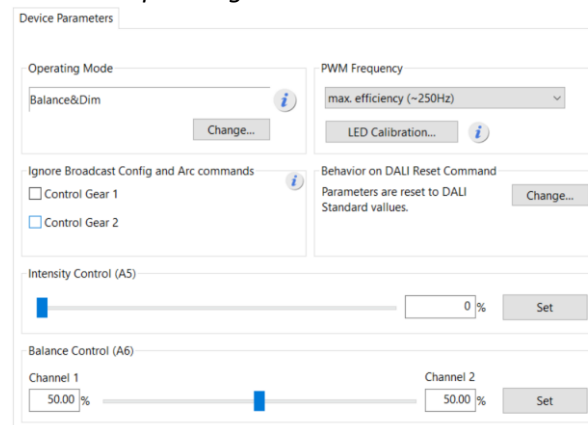
Overview operating mode DT6



Overview operating mode Dim2Warm



Overview operating mode Balance&Dim



*change of the Dim2Warm table are being saved via "Save" to the device as other device parameters

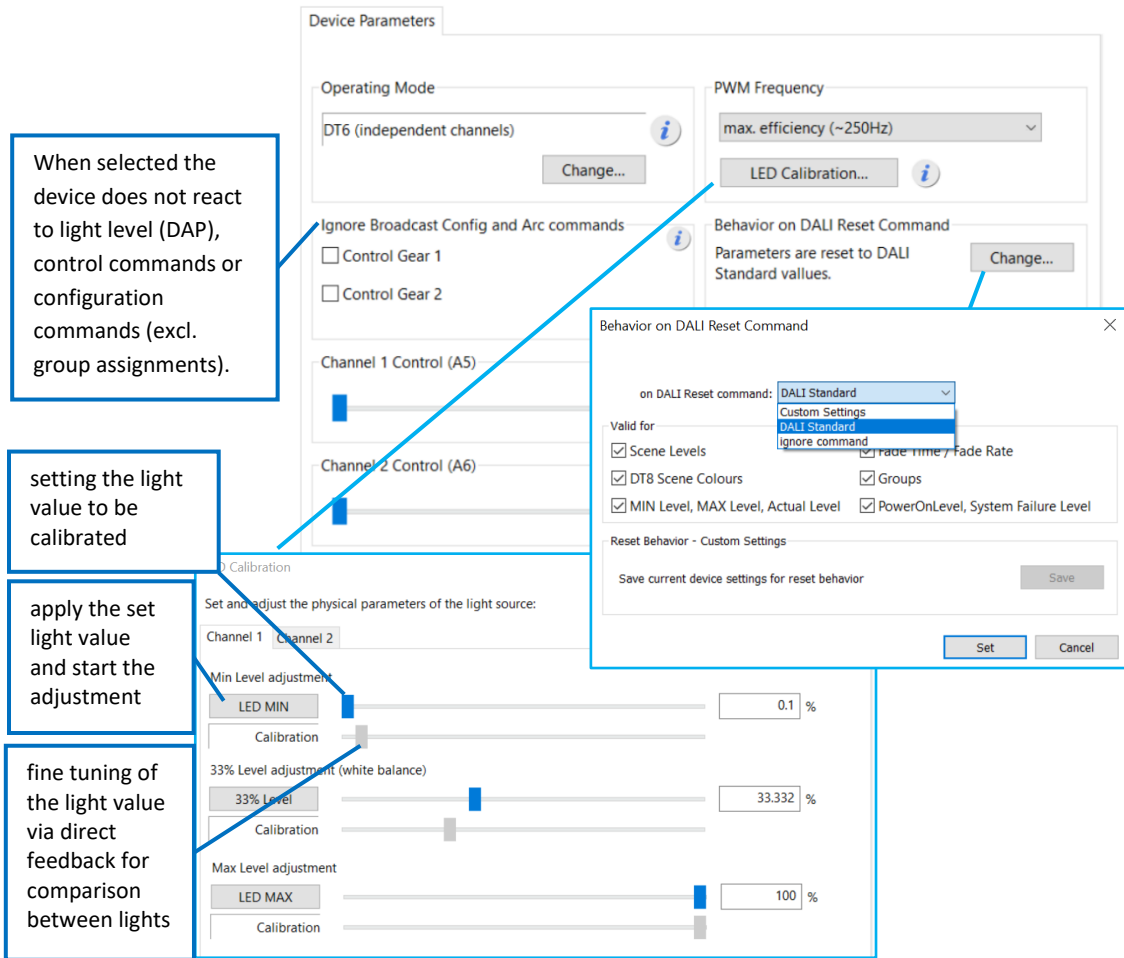
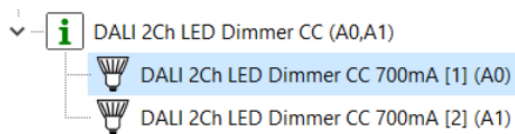


Figure 1 Cockpit overview page – LED calibration and settable RESET behaviour

DALI Cockpit: Additional Settings

Besides the settings on the general page each channel can be selected separately in the component tree for individual configuration.

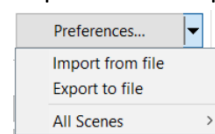


For each address the group membership can be set as well as scene values and DALI-parameters. In Balance&Dim operating mode all values assigned to channel 2 are representing the balance.

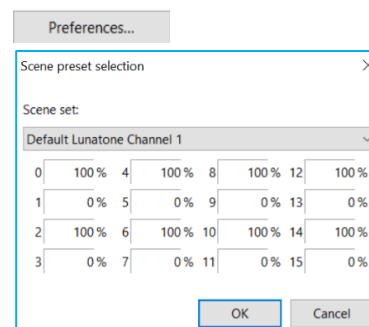
Figure 2 on page 15 shows settings for each channel for all operating modes: DT6, Balance&Dim and Dim2Warm.

Scene settings

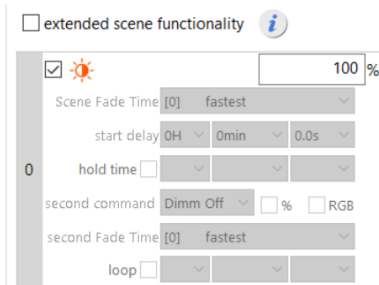
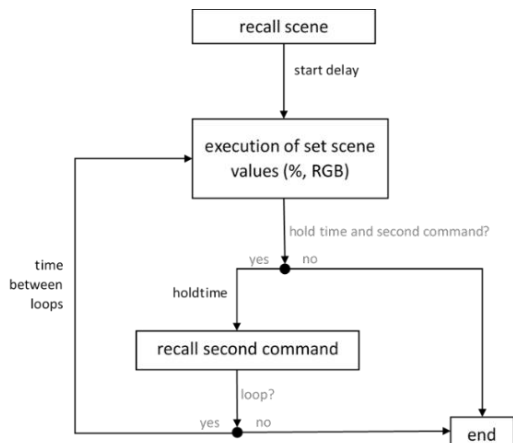
Via the arrow button the scene settings can be imported and exported.



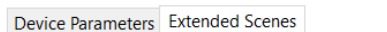
Via the button „Preferences“ the default scene settings can be loaded.



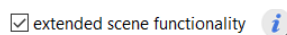
From FW 6.0 on, extended scene settings can be configured. With extended scenes it is possible to automatically change between 2 scene values (once or looped). Thereby enabling configuration of blinking lights, time delayed switch off or light repetitions, as well as traveling lights with multiple dimmers.



Extended Scenes are available for each of the 16 scenes on the second tab:



By enabling the extended scenes these are used instead of the standard scenes on the "Device Parameters" tab



Device Info		
Name	DALI 2Ch LED Dimmer C...	Article Number 89453845-700 GTIN 9010342013416
Manufacturer	Lunatone	Serial Number 122620 FW 5.2.31
Device Type	6	Type Control Gear
DALI Ver	V2.0	Short Address (A0) DALI 2Ch LED Dimmer CC 70 Set

Device Parameters

Groups: 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

DALI Parameter

MIN Level: 0.1 %

MAX Level: 100 %

Power On Level: MASK %

System Fail Level: 100 %

Fade time: 1.0 s

Ext Fade Time: fastest

Fade rate: 89.4 step/s

Scenes

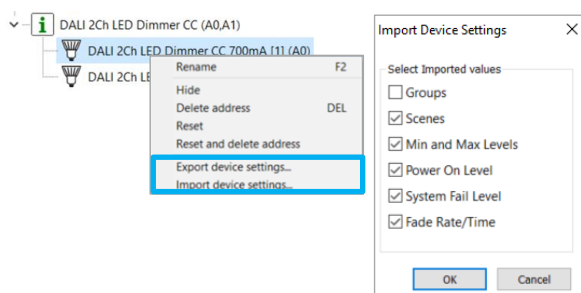
0 <input checked="" type="checkbox"/> 100 %	4 <input checked="" type="checkbox"/> 100 %	8 <input checked="" type="checkbox"/> 100 %	12 <input checked="" type="checkbox"/> 100 %
1 <input checked="" type="checkbox"/> 0 %	5 <input checked="" type="checkbox"/> 0 %	9 <input checked="" type="checkbox"/> 0 %	13 <input checked="" type="checkbox"/> 0 %
2 <input checked="" type="checkbox"/> 100 %	6 <input checked="" type="checkbox"/> 100 %	10 <input checked="" type="checkbox"/> 100 %	14 <input checked="" type="checkbox"/> 100 %
3 <input checked="" type="checkbox"/> 0 %	7 <input checked="" type="checkbox"/> 0 %	11 <input checked="" type="checkbox"/> 0 %	15 <input checked="" type="checkbox"/> 0 %

Preferences...

Figure 2 Cockpit settings for each channel

Import/Export settings

With a right click on the channel in the device-tree overview the device settings can be exported or imported.



Factory Default Settings

Before the initial addressing is performed, the device can already be controlled by group addresses G0 and G1. This predefined grouping will be deleted during the first addressing procedure. Afterwards groups can be assigned as usual (e.g. with the help of the DALI Cockpit).

By sending a DALI-Reset command the device is set to DALI default values as defined in the standard.

The factory default values as well as the DALI-norm values are summarised in *Table 1* below.

Table 1 factory default settings column 1, DALI Standard settings column 2

	Delivery default	DALI norm																																																			
Operating mode	DT6	N/A (remains unchanged)																																																			
SwitchDim2	SW&DIM2-1: light level SW&DIM2-2: scene selector	N/A (remains unchanged)																																																			
Min Level	0.1%	0.1%																																																			
Max Level	100%	100%																																																			
PowerOn Level	Last light level (= MASK)	100%																																																			
System Failure Level	100%	100%																																																			
Fade Time	1s [2]	none																																																			
Fade Rate	89.4 steps/s [5]	44.7 steps/s																																																			
PWM-Frequency	FW ≥ 4.6: 1kHz FW < 4.6: 122Hz	N/A (remains unchanged)																																																			
Control before initial addressing	G0 – channel 0 G1 – channel 1	None																																																			
Scene values	<table border="1"> <thead> <tr> <th>Scene</th> <th>Ch1</th> <th>Ch2</th> </tr> </thead> <tbody> <tr><td>0</td><td>100%</td><td>0%</td></tr> <tr><td>1</td><td>0%</td><td>100%</td></tr> <tr><td>2</td><td>100%</td><td>0%</td></tr> <tr><td>3</td><td>0%</td><td>100%</td></tr> <tr><td>4</td><td>100%</td><td>0%</td></tr> <tr><td>5</td><td>0%</td><td>100%</td></tr> <tr><td>6</td><td>100%</td><td>0%</td></tr> <tr><td>7</td><td>0%</td><td>100%</td></tr> <tr><td>8</td><td>100%</td><td>0%</td></tr> <tr><td>9</td><td>0%</td><td>100%</td></tr> <tr><td>10</td><td>100%</td><td>0%</td></tr> <tr><td>11</td><td>0%</td><td>100%</td></tr> <tr><td>12</td><td>100%</td><td>0%</td></tr> <tr><td>13</td><td>0%</td><td>100%</td></tr> <tr><td>14</td><td>100%</td><td>0%</td></tr> <tr><td>15</td><td>0%</td><td>100%</td></tr> </tbody> </table>	Scene	Ch1	Ch2	0	100%	0%	1	0%	100%	2	100%	0%	3	0%	100%	4	100%	0%	5	0%	100%	6	100%	0%	7	0%	100%	8	100%	0%	9	0%	100%	10	100%	0%	11	0%	100%	12	100%	0%	13	0%	100%	14	100%	0%	15	0%	100%	All scenes MASK
Scene	Ch1	Ch2																																																			
0	100%	0%																																																			
1	0%	100%																																																			
2	100%	0%																																																			
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Behaviour on DALI RESET command	set DALI Standard values, see column 2	N/A (remains unchanged)																																																			

Purchase Order Information

Art.Nr. 89453845-xxx

DALI 2Ch LED Dimmer CC
constant current xxxmA – 100mA-500mA,
common plus connector,
supply 12V-48V DC,
output voltage range 3V-45V,
back box

Art.Nr. 89453845-xxxDE

DALI 2Ch LED Dimmer CC
constant current xxxmA - 100mA-500mA,
common plus connector,
supply 12V-48V DC,
output voltage range 3V-45V,
SwitchDim2
remote ceiling & integration in luminaires

Art.Nr. 89453845-xxx

DALI 2Ch LED Dimmer CC
constant current xxxmA - 500mA -1000mA,
common plus connector,
supply 12V-48V DC,
output voltage range 3V-45V,
SwitchDim2,
remote ceiling & integration in luminaires

Art.Nr. 89453845-xxxGMDE:

DALI 2Ch LED Dimmer CC
constant current xxxmA - 100mA-500mA,
common minus connector,
supply 12V-48V DC,
output voltage range 3V-45V,
SwitchDim2,
remote ceiling & integration in luminaires

Art.Nr. 89453845-xxxGM:

DALI 2Ch LED Dimmer CC
constant current xxxmA - 500mA -1400mA,
common minus connector,
supply 12V-48V DC,
output voltage range 3V-45V,
SwitchDim2,
remote ceiling & integration in luminaires

Additional Information and Equipment

Lunatone datasheets and manuals
<https://www.lunatone.com/en/downloads-a-z/>

Lunatone DALI products
<https://www.lunatone.com/en/>

DALI-Cockpit – free configuration tool from Lunatone for DALI systems
<https://www.lunatone.com/en/product/dali-cockpit/>

Contact

Technical Support: support@lunatone.com

Requests: sales@lunatone.com

www.lunatone.com



Disclaimer

Subject to change. Information provided without guarantee.
The datasheet refers to the current delivery.

The compatibility with other devices must be tested in advance to the installation.