# **D** Lunatone





# **DALI-2 PD**

# **Datasheet**

**Phase Dimmer Module** 

Phase Dimmer with DALI control input (DT4)



DALI PD:

Art. Nr. 86458618 (RL)

Art. Nr. 86458619 (RC)

Art. Nr. 86458619-25U (RLC)

DALI PD300:

Art. Nr. 86458618-300 (RL)

Art. Nr. 86458619-300 (RC)

Art. Nr. 86458619-300U (RLC)

Art.Nr. 86458619-300U-HS (RLC HS)

# **DALI-2 PD** Phase Dimmer Module

### Overview

- Suitable for dimming of 230V LEDretrofit-bulbs via DALI (Device Type 4 from firmware 3.0 and higher)
- different types for loads from 3W to 25W (PD) for back box installation and for 10-300W (PD300) for remote ceiling and din rail
- trailing edge phase cut dimmer for resistive and capacitive loads, leading edge phase cut dimmer for resistive and inductive loads as well available as universal dimmer
- conversion of the DALI dimlevel into a phase cut controlled voltage (trailing/leading edge)

- the minimum dim level can be set via DALI (MIN LEVEL)
- additional operating mode as switch (DT7 compliant) available with firmware 3.5 and higher
- the module represents a DALI-line client and therefore it has its own DALI-address.
- double DALI terminals the DALI signal line is connected through.







### Specification, Characteristics

type	DALI-2 PD	DALI-2 PD 300W	
	86458618 (RL)	86458618-300 (RL)	86458619-300U-HS
article number	86458619 (RC)	86458619-300 (RC)	(RLC)
	86458619-25U (RLC)	86458619-300U(RLC)	
input: L, N			
input type	mains		
marking terminals	L, N		
rated input voltage	220-240Vac		
input voltage frequency	50-60 Hz		
max. input power	25W	300W	

### input: DA, DA

input type	DALI, supply
marking terminals	DA, DA
input voltage range	9,5V 22,5V
max. current consumption DALI	6mA
number of DALI addresses	1



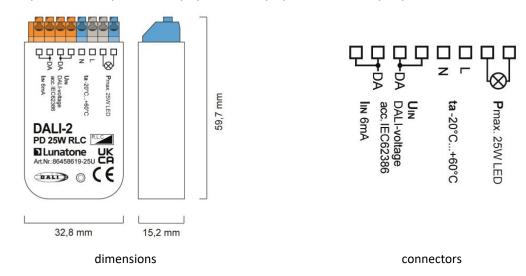
output: L', N         output type         trailing/leading edge phase cut of mains           marking terminals         L', N or.	article number	86458618 (RL) 86458619 (RC) 86458619-25U (RLC)	86458618–300 (RL) 86458619–300 (RC) 86458619-300U(RLC)	86458619-300U-HS (RLC)
output type         trailing/leading edge phase cut of mains           marking terminals         L', N or. ©           output voltage         like input L,N           phase cut angle         0°-180°           output voltage frequency         like input L,N           max. output current         0.2A Eff ac         1.4SA Eff ac           load range         3-25W         10-300W           max. length between device and luminaire         50m           Insulation data         III         10-300W           Insulation data         250V         10-300W           Insulation data         250V         10-300W           Insulation data         250V         10-300W           Insulation data         250V         250V           Insula	output: L', N			
output voltage   like input L,N   phase cut angle   O°-180°   output voltage frequency   like input L,N   max. output current   O.2A Eff ac   1.45A Eff ac   load range   3-25W   10-300W   max. length between device and luminaire   50m    Insulation data   Impulse voltage category   II   pollution degree   2   2   rated insulation voltage   250V   insulation   DALI (DA-JD-A) / (L/N/L')   Insulation test voltage   3000Vac    environmental conditions   storing and transportation   temperature   -20°C +75°C   operational ambient   temperature   -20°C +60°C   Rel. humidity, none condensing   15% 90%    general data   dimensions (I x w x h)   59x33x15 mm   120x30x22mm   98x17,5x56mm   mounting   built-in, integration in protection class II   devices   devices   devices   rated max. temperature tc   65°C   expected life time @tc   50.000 h   protection class II   rotection class II   lin intended use   protection degree housing   IP40   protection degree terminals   IP20    terminals   Connection type   Spring terminal connector   screw terminal   wire size solid core   (AWG20 AWG16)   (AWG20 AWG14)   wire size fine wired   0,5 1,5 mm²   0,5 2,5 mm²   (AWG20 AWG16)   (AWG20 AWG16)   wire size using wire end ferrule   0,25 1 mm²   0,25 1,5 mm²   0,25 1,5 mm²   0,5 2,5 mm²   0,25 1,5 mm²	•	trailing,	/leading edge phase cut of	f mains
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output voltage frequency max. output current load range 3-25W 10-300W max. length between device and luminaire  Insulation data impulse voltage category pollution degree 2 2 rated insulation voltage insulation voltage insulation test voltage 2 3000vac  Insulation test voltage  and transportation temperature poperational ambient temperature Rel. humidity, none condensing  built-in, integration in protection class II devices rated max. temperature to expected life time @tc protection class protection degree housing protection degree terminals  Connection type spring terminal connector spring terminal terminal terminal terminal terminal terminal terminal terminal	output voltage			
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load range   3-25W   10-300W   max. length between device and luminaire   50m	output voltage frequency	like input L,N		
max. length between device and luminaire    Insulation data	max. output current			
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environmental conditions  storing and transportation temperature operational ambient temperature Rel. humidity, none condensing  general data dimensions (I x w x h)  built-in, integration in protection class II devices  rated max. temperature to expected life time @tc protection class  protection class II in intended use protection degree housing protection degree terminals  Connection type  spring terminal connector spring terminal connector spring terminal wire size solid core  (AWG20 AWG16) (AWG20 AWG14) wire size using wire end ferrule  -20°C +75°C -20°C +75°C -20°C +60°C -20		reinforced isolation		
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Rel. humidity, none condensing     15% 90%       general data     dimensions (l x w x h)     59x33x15 mm     120x30x22mm     98x17,5x56mm       mounting     built-in, integration in protection class II devices     remote ceiling, integration in protection class II devices     DIN rail, built-in, integration in protection class II devices       rated max. temperature tc     65°C       expected life time @tc     50.000 h       protection class     II in intended use       protection degree housing     IP40       protection degree terminals     IP20       terminals       Connection type     spring terminal connector     screw terminal       wire size solid core     (AWG20 AWG16)     (AWG20 AWG14)       wire size fine wired     0,5 1,5 mm²     0,5 2,5 mm²       (AWG20 AWG16)     (AWG20 AWG14)       wire size using wire end ferrule     0,25 1 mm²     0,25 1,5 mm²	-	-20°C +60°C		
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mounting    Duilt-in, integration in protection class II devices	dimensions (l x w x h)	59x33x15 mm	120x30x22mm	98x17,5x56mm
expected life time @tc 50.000 h  protection class II in intended use  protection degree housing IP40  protection degree terminals IP20  terminals  Connection type spring terminal connector screw terminal  wire size solid core (AWG20 AWG16) (AWG20 AWG14)  wire size fine wired (AWG20 AWG16) (AWG20 AWG14)  wire size using wire end ferrule 0,25 1 mm² 0,25 1,5 mm²  (AWG20 AWG14)	mounting	protection class II	integration in protection class II	integration in protection class II
protection class protection degree housing protection degree terminals  IP20  terminals  Connection type spring terminal connector wire size solid core (AWG20 AWG16) wire size fine wired wire size using wire end ferrule  II in intended use IP40  IP20  terminals  O,5 1,5 mm² (AWG20 AWG16) (AWG20 AWG14)  O,5 2,5 mm² (AWG20 AWG14)  O,5 1,5 mm² (AWG20 AWG14)  O,25 1,5 mm² O,25 1,5 mm² O,25 1,5 mm²	rated max. temperature tc		65°C	
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terminals  Connection type spring terminal connector screw terminal  wire size solid core (AWG20 AWG16) (AWG20 AWG14)  wire size fine wired (AWG20 AWG16) (AWG20 AWG14)  wire size using wire end ferrule 0,25 1 mm² 0,25 1,5 mm²  (AWG20 AWG16) (AWG20 AWG14)	protection class	II in intended use		
terminals  Connection type spring terminal connector screw terminal  wire size solid core (AWG20 AWG16) (AWG20 AWG14)  wire size fine wired (AWG20 AWG16) (AWG20 AWG14)  wire size using wire end ferrule 0,25 1 mm² 0,25 1,5 mm²  0,25 1,5 mm²  0,25 1,5 mm²  0,25 1,5 mm²	protection degree housing	IP40		
Connection typespring terminal connectorscrew terminalwire size solid core $0.5 \dots 1.5 \text{ mm}^2$ $0.5 \dots 2.5 \text{ mm}^2$ (AWG20 \dots AWG16)(AWG20 \dots AWG14)wire size fine wired $0.5 \dots 1.5 \text{ mm}^2$ $0.5 \dots 2.5 \text{ mm}^2$ (AWG20 \dots AWG16)(AWG20 \dots AWG14)wire size using wire end ferrule $0.25 \dots 1 \text{ mm}^2$ $0.25 \dots 1.5 \text{ mm}^2$	protection degree terminals	IP20		
wire size solid core       0,5 1,5 mm² (AWG20 AWG16)       0,5 2,5 mm² (AWG20 AWG14)         wire size fine wired       0,5 1,5 mm² (AWG20 AWG16)       0,5 2,5 mm² (AWG20 AWG14)         wire size using wire end ferrule       0,25 1 mm²       0,25 1,5 mm²	terminals			
wire size solid core         (AWG20 AWG16)         (AWG20 AWG14)           wire size fine wired         0,5 1,5 mm²         0,5 2,5 mm²           (AWG20 AWG16)         (AWG20 AWG14)           wire size using wire end ferrule         0,25 1 mm²         0,25 1,5 mm²	Connection type	spring termin	al connector	screw terminal
wire size tine wired (AWG20 AWG16) (AWG20 AWG14) wire size using wire end ferrule 0,25 1 mm² 0,25 1,5 mm²	wire size solid core	0,5 1,5 mm²		
wire size using wire end ferrule 0,25 1 mm <sup>2</sup> 0,25 1,5 mm <sup>2</sup>	wire size fine wired	0,5 1,5 mm²		0,5 2,5 mm <sup>2</sup>
	wire size using wire end ferrule	0,25	1 mm <sup>2</sup>	0,25 1,5 mm <sup>2</sup>
stripping length 8,5 9,5mm / 0,33 0,37inch 7 mm / 0,27 inch	stripping length	8,5 9,5mm / 0	),33 0,37inch	7 mm / 0,27 inch
locking torque - 0,5Nm	locking torque	-		0,5Nm
actuation type Push button screw	actuation type	Push b	outton	screw



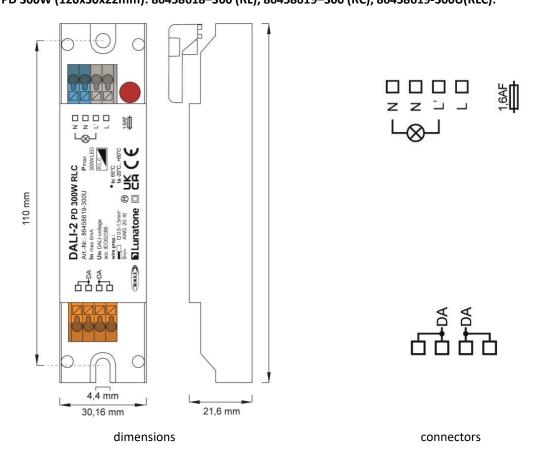
### standards

DALI	EN 62386-101, EN62386-102, EN62386-205		
EMC	EN 61547		
	EN 50015 / IEC CISPR15		
safety	EN 61347-2-11		
	EN 61347-1		
markings	CE		

### type PD 25W (59x33x15 mm): 86458618 (RL), 86458619 (RC), 86458619-25U (RLC):

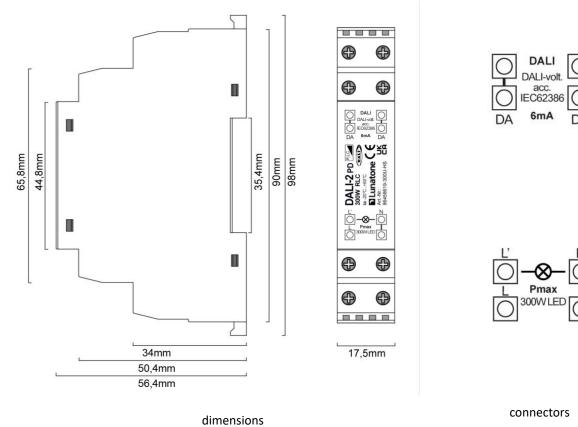


type PD 300W (120x30x22mm): 86458618-300 (RL), 86458619-300 (RC), 86458619-300U(RLC):





### type PD 300W DIN Rail (98x17,5x56mm): 86458619-300U-HS (RLC):



## **Factory Default Settings**

	Factory default settings	DALI standard
Active Operating Mode	DT4	
Min Level	3% - FW 5.0.: 0.1%	0.1%
Max Level	100%	100%
Power On Level	MASK (= last active value)	100%
Fade Time	No fade	No fade
Fade Rate	44.7 steps/s (= 7)	44.7 steps/s
	from FW.5.0. on: 89.4steps/s	
System Failure Level	100%	100%
Predefined scene values	none (MASK)	none (MASK)
Broadcast control	active	

### Installation

- The DALI PD is suitable for integration in protection class II devices, ensure proper working cable relief for installation.
- The DALI PD300 is an independent control gear and suitable for remote ceiling and integration in luminaires. When used as built-in in protection class II devices proper working cable relief has to be ensured.
- The DALI PD300 (HS-type) is suitable for DIN rail mounting, protection against shock has to be provided by an appropriate enclosure.
- 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. The system must also be switched off when replacing the luminaire.
- National regulations for setting up electrical systems must be followed.
- Connect power supply terminals L and N to mains voltage according to the labelling.
- Connect terminals L' and N or terminal with the light bulb symbol to the load.
   Ensure that the wiring length to the load does not exceed 50m.
- Only connect luminaires that are in the rated power range of the dimmer and are suitable with respect to the load type.
   Also consider the power factor of the luminaires (especially for lamps with rated power below 25W).



**Attention:** the intended use of the DALI PD is dimming of LED-retrofit-luminaires, do not use with halogen lamps or magnetic transformers

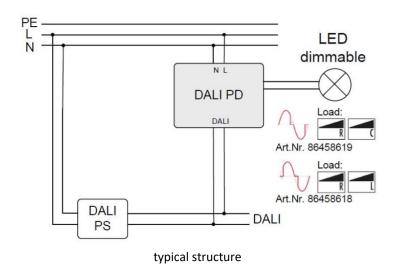
- the connection to the DALI-line (DA, DA) is polarity free.
- The DALI PD / DALI PD300 is supplied by the DALI-line (current consumption ~6mA).
- The DALI line may be routed together with the mains voltage (in one cable or as single wires in a tube)
- The DALI-line must not be connected to the mains or extra low voltage systems.
- The DALI wiring can be realised with standard low-voltage installation material.
   No special cables are required.
- Wiring topology of the DALI-line: Line, Tree, Star



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

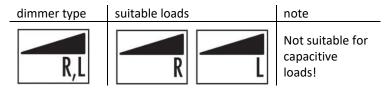


The voltage drop on the DALI line must not exceed 2V at maximum length (300m) and maximum bus load (250mA).

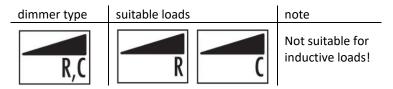


# ATTENTION: Do not apply any potential to the light bulb connector! Switch off mains supply before replacing the light bulb.

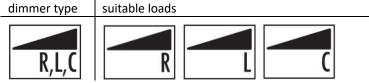
### Leading edge phase cut dimmer (Art.Nr. 86458618):



### Trailing edge phase cut dimmer (Art.Nr. 86458619):



### Universal dimmer (Art.Nr 86458619-xxxU):



**ATTENTION:** The intended use of DALI PD is dimming of LED-retrofit-luminaires, do not use with halogen lamps or magnetic transformers.

### type of dimmers:

Leading edge Trailing edge Universal

### load:

3-25W: compact housing for back box installation

10-300W: remote ceiling, din rail

When connecting multiple bulbs the same load type has to be used (inductive or capacitive).

### info universal dimmer:

suitable for resistive, inductive and capacitive loads.

After mains voltage is supplied the dimmer will recognize the load type and make a decision for leading edge phase cut operation (inductive load) or trailing edge phase cut operation (capacitive load)



### Commissioning

- The DALI-PD is ready to use, it is supplied by the DALI-line (current consumption ~6mA)
- The DALI-2 PD 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 PD 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 Function below.

### **Function**

### **Operating Mode DT4**

As an interface between classic dimming technology (phase dimming) and DALI, the DALI PD is based on the standard for DALI Control Gears (IEC 62386-102) and Device Type 4 devices (IEC 62386-205).

The DALI PD interface converts the DALI dim level into a voltage signal.

The Universal dimmer (Art.Nr 86458619-xxxU) functions as trailing edge or leading edge dimmer, depending on the load.

The operation mode (trailing/leading edge) can be queried via DALI (DT4). The dimming curve follows a logarithmic characteristic corresponding to DALI. The phase cut control generates a sinusoidal voltage with leading/trailing edge phase cut. The PHYSICAL MINLEVEL is 3%.

### **Operating Mode DT7**

Up from firmware version 3.5 an additional operating mode is supported. Instead of phase dimming (DT4) the device can act as switch (DT7 capable). Hence the switching characteristic is determined by the comparison of the virtual direct arc power level (VDAP) with 4 thresholds.

The virtual dim level (VDAP) is like the dim level of DALI-ballasts and is therefore limited by MINLEVEL and MAXLEVEL and influenced by fade-time and fade-rate.

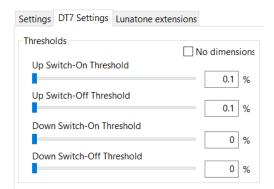
For each dim direction 2 thresholds can be defined. They are compared with the virtual dim level and as a result the output is switched on or off:

virtual dim	comparison of virtual dim level and thresholds	output
direction		
UP	VDAP>= UP SwitchOn Threshold	ON
UP	VDAP>= UP SwitchOff Threshold	OFF
DOWN	VDAP<= DOWN SwitchOn Threshold	ON
DOWN	VDAP<= DOWN SwitchOff Threshold	OFF

If a threshold value is set to "MASK" the threshold is inactive and does not influence the relay output.

Some examples of switching characteristics are shown in Figure 1 below.

With the help of the fade time switch on and switch off delays can be realized.



### **D** Lunatone

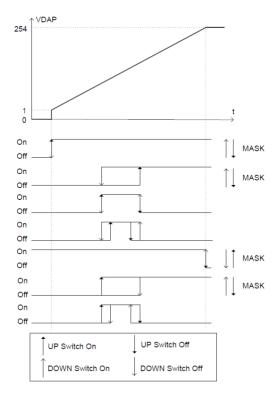
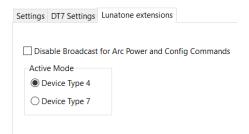


Figure 1 possible switching characteristics

### **Operating Mode Selection**



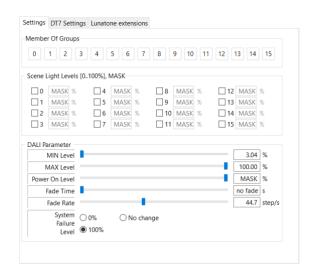
### **General Settings**

The Configuration can be done easily with the help of the DALI Cockpit. See also Figure 2.

Since the device is bus powered the configurable SYSTEM FAILURE LEVEL is only partially supported.

For devices with firmware >4.0 the system failure level can be choose between 0%, 100% and "No change (MASK)".

For previous versions the system failure level is fixed: the DALI PD (25W version) applies 100% at the output, the DALI PD300 (300W version) applies 0% at the output.



### **Ignore Broadcast Commands**

The "Ignore Broadcast" setting can be used to ensure that the phase dimmer does not respond to broadcast commands on the DALI bus (group assignments are not ignored). The setting is possible in the "Lunatone Features" tab and from FW 5.0 in the "Settings" tab.

### **Adjustable RESET behaviour (FW 5.0)**

From FW 5.0. 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 (FW 5.0)

From FW version 5.0 on, it is possible to calibrate light sources, with the option: Calibration. 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, set the desired level with the upper slider. 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 3.

### DALI Cockpit Configuration - FW 5.0 - operating mode DT4

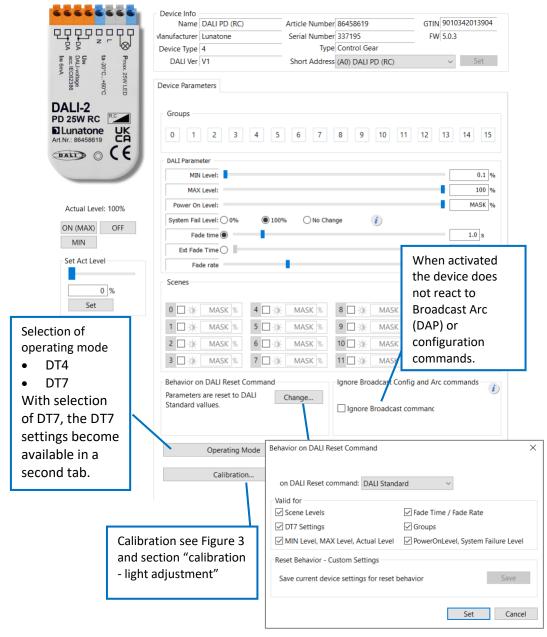


Figure 2 DALI Cockpit settings



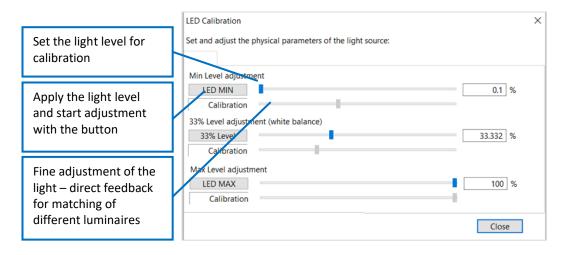


Figure 3 Calibration – light adjustment settings

### **Purchase Order Information**

article number: 864586xx - (extension)

**86458618**: leading edge dimmer (RL), 3-25W, back box

**86458618-300:** leading edge dimmer (RL), 10-300W, remote ceiling, din rail type on request

**86458619:** trailing edge dimmer (RC), 3-25W, back box

**86458619-300** trailing edge dimmer (RC), 10-300W, remote ceiling, din rail type on request

**86458619-25U**: universal dimmer (RLC), 3-25W, back box

**86458619-300U**: universal dimmer (RLC), 10-300W, remote ceiling

**86458619-300U-HS**: universal dimmer (RLC), 10-300W, din rail

# Additional Information and Equipment

DALI-Cockpit – free configuration tool from Lunatone for DALI systems <a href="http://lunatone.at/en/downloads/Lunatone">http://lunatone.at/en/downloads/Lunatone</a> DALI-Cockpit.zip

Lunatone DALI products <a href="http://www.lunatone.at/en/">http://www.lunatone.at/en/</a>

Lunatone datasheets and manuals <a href="http://lunatone.at/en/downloads/">http://lunatone.at/en/downloads/</a>

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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.