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### **DALI-2 Audio Interface**



# Datasheet DALI Audio Interface

DALI gear for playback of internet radio stations or audio files via the DALI bus

Art. Nr.: 89943721

### DALI-2 Audio Interface control gear

### Overview

- DALI device for playback of internet radio stations or audio files
- Simple linking of speakers / intercom systems (speakers) via speaker cable connection
- Speed dial up to 16 radio stations via scenes
- Control of radio stations and volume via DALI

- Preinstalled ringtones for doorbells or alarm signals
- WLAN interface for integration into the local network, connection and playback of web radio stations
- Simple configuration using the Lunatone software DALI Cockpit
- Suitable for remote ceiling installation or integration in luminaires

### Specification, Characteristics

type	DALI-2 Audio Interface			
article number	89943721			
GTIN	9010342013966			
input: L, N				
input type	supply, mains- voltage			
marking terminals	L, N			
input voltage range	110Vac 240Vac			
max. input supply current	31mA (@110Vac), 21mA (@240Vac)			
input supply frequency	50Hz / 60Hz			
power consumption	max. 4W			
start-up time	< 1s			
output: DA+, DA-				
output type	DALI			
marking terminals	DA, DA			
open circuit proof	yes			
short circuit proof	yes			
insulation data:				
impulse voltage category	II			
pollution degree	2			
rated insulation voltage	250V			
insulation DALI (DA+, DA-) / supply (L, N)	reinforced isolation			
insulation test voltage DALI-output/mains	3000Vac			
environmental conditions:				
storing and transportation temperature	-20°C +75°C			
operational ambient temperature	-20°C +60°C			
rel. humidity, none condensing	15% 90%			



dimensions (I x w x h)	159mm x 42mm x 22mm		
mounting	remote ceiling, integration in class II devices		
rated max. temperature tc	70°C		
expected lifetime @tc	50.000 h		
protection class	II in intended use		
protection degree housing	IP40		
protection degree terminals	IP20		
terminals:			
connection type	spring terminal connector		
wire size solid core	0,5 1,5 mm <sup>2</sup> (AWG20 AWG16)		
wire size fine wired	0,5 1,5 mm² (AWG20 AWG16)		
wire size using wire end ferrule	0,25 1 mm²		
stripping length	8,5 9,5mm / 0,33 0,37inch		
release of wire	push button		
standards:			
DALI	EN 62386-101		
EMV	EN 61547 EN 50015 / IEC CISPR15		
Safety	EN 61347-2-11 EN 61347-1		

### **Factory Default Settings**

markings

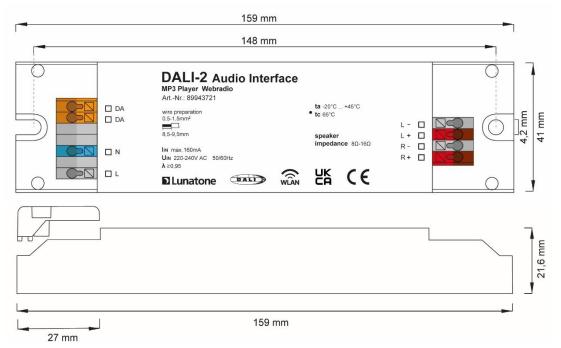
	Factory	Default Settings	DALI Standard	
Min Level	0.1%		0.1%	
Max Level	100%		100%	
PowerOn Level	MASK (le	tzter Wert)	100%	
System Failure Level	0%	· · · · · · · · · · · · · · · · · · ·	100%	
Fade Time	1s		none	
	_	ns/s		
Fade Rate	89.4 step	15/5	44.7 steps/s	
groups	none		None	
Scene presets:	Scene	Mode	Volume	all scenes: MASK
	0	Radio OE3	MASK	
	1	Radio OE1	MASK	
	2	Radio FM4	MASK	
	3	Radio 88.6	MASK	
	4	Radio Paradise	MASK	
	5	Mp3 Doorbell 1	100%	
	6	Mp3 Doorbell 2	100%	
	7	Mp3 Doorbell 1 and OFF	100%	
	8	MASK	MASK	
	9	MASK	MASK	
	10	MASK	MASK	
	11	MASK	MASK	
	12	MASK	MASK	
	13	MASK	MASK	
	14	MASK	MASK	
	15	MASK	MASK	

DALI-2, CE, UKCA

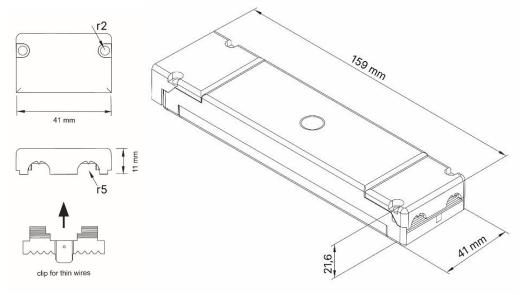




connection plan DALI-2 Audio Interface



dimensions DALI-2 Audio Interface



Standard strain relief cover for 159x42x22mm

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### Installation

- The DALI-2 Audio Interface is intended for remote installation in a ceiling or in an enclosure, ensure proper cable relief for installation in protection class II devices.
- An external DALI bus power supply is required.
- 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 power supply terminals L and N to mains voltage according to the labelling.
- The connection to the DALI terminals can be made regardless of the polarity.
- 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 (SELV) systems.

- Only 1 wire may be connected to each terminal. When using double wire end ferrules, the connection capacity of the terminal must be considered.
- 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.
- For positioning the device, the structural conditions need to be considered, to not shield or weaken the WLAN signal.



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).

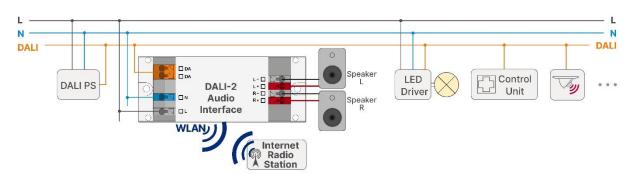


Fig. 1 Installation DALI Audio Interface – typical application



### **Commissioning and Function**

After connection, the DALI-2 Audio Interface is ready for use. The DALI-2 Audio Interface can be controlled in the same way as a DALI dimmer, however instead of the brightness, the volume is controlled.

To use the internet functionality of the DALI-2 Audio Interface, the network connection must be configured via the software tool DALI Cockpit.

To play the existing mp3 audio files "Doorbell", no network connection is needed.

The device can be addressed and necessary changes to the settings can be made via the DALI Cockpit (Windows PC software).

To use the DALI Cockpit software (), the PC must be connected to the DALI bus via a suitable interface module (DALI USB, DALI 4Net, DALI SCI RS232, DALI-2 Display, DALI-2 IoT or DALI-2 WLAN).

The DALI-2 Audio Interface is automatically recognized by the DALI Cockpit during the addressing process and listed in the device overview. All desired changes to the device settings can then be applied on the device page.

After entering the network settings (SSID and password), the device can connect to the various internet radio stations. The desired internet radio stations can be set via the scenes.

For configuration of the device, see section "Application - DALI Cockpit"

### DALI Cockpit

The following settings can be made on the tab "Device Parameters":

#### **Default DALI settings**

The standard DALI settings correspond to those of a DALI dimmer, but with the DALI radio device they refer to the volume instead of the brightness.

Scene settings: various radio stations or preinstalled mp3 files (doorbells) and the scene volume can be set via the 16 scenes (see also Fig. 2). The following modes are available as scene settings:

- Web Radio MP3: allows entering a link to an mp3 radio station. Links to Internet radio stations can be found, for example, at: <a href="https://www.radio-browser.info/">https://www.radio-browser.info/</a> by entering the desired radio station in the search bar.
- audio file (mp3): by selection of the option "Web-Radio MP3" and entering a link to a mp3 file located on a file location accessible via the configured network.
- Web Radio AAC: allows entering a link to an AAC radio station
- Doorbell: play a pre-installed mp3 file, then the default radio station is played.
- Doorbell and OFF: play a preinstalled mp3 file, then the radio is switched off.
   Info: for the 2 doorbell operating modes the set fade time is not taken into account



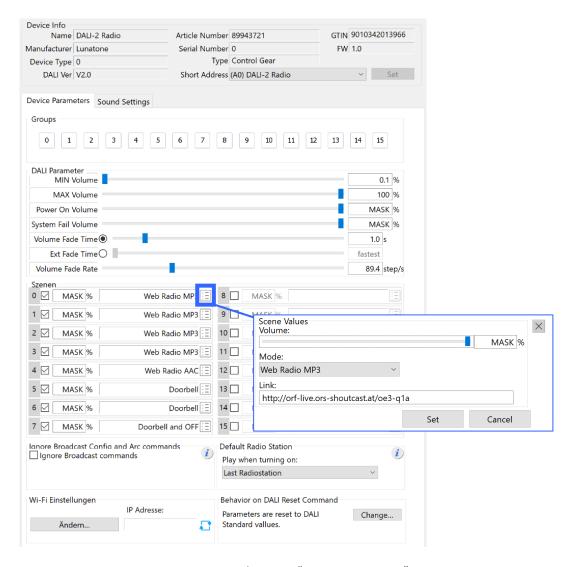


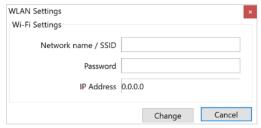
Fig. 2 DALI Cockpit Tan: "Device Parameters"

### Ignore Broadcast for Arc Power and Config commands

If this option is selected, the DALI-2 Audio Interface no longer listens to DAP (volume level) and configuration commands that are sent broadcast on the DALI bus.

### **Wi-Fi Settings**

At "Wi-Fi Settings" the network connection can be set and checked

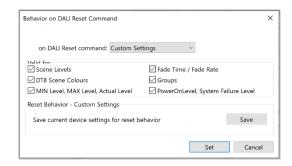


### **Configurable RESET Behaviour**

The behaviour to a DALI reset command can be configured. The following options are available:

- Ignore command: the DALI reset command will be ignored and does not trigger any changes to the device settings
- Custom settings: For the selected options (scene levels, fade time,...) the values are reset with a DALI reset command. The values to which they will be reset can be defined with the option: "save current device settings for reset behavior" underneath. If not overwritten, the values of the delivery default are stored as reset values



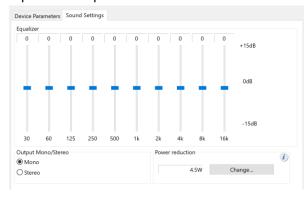


### **Default Radio Station**

The default radio station can be used to set which station is played at power on. The 16 scenes and "the last active scene" are available for selection.

### **Sound Settings**

On the tab "Sound Settings", mono/stereo, equalizer and power reduction can be set.



### Power reduction (peak value)

The adjustable range for the peak power value is 5-20W, on delivery set to 5W, weaker or more powerful loudspeakers require an appropriate adjustment.

### **Purchase Information**

**Art.Nr. 89943721**: DALI-2 Audio Interface, DALI control gear for playing internet radio stations and audio files, remote ceiling installation

## Additional Information and Equipment

Lunatone datasheets, manuals and software <a href="http://www.lunatone.com/downloads-a-z/">http://www.lunatone.com/downloads-a-z/</a>

Lunatone DALI products http://www.lunatone.com

DALI-Cockpit – DALI system configuration tool, free when using a Lunatone interface device <a href="https://www.lunatone.com/en/product/dali-cockpit/">https://www.lunatone.com/en/product/dali-cockpit/</a>

#### Contact

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www.lunatone.com





#### Disclaimer

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

The function in installations with other devices must be tested for compatibility in advance