



User Manual

DALIGate DIN

DGD-1-DE2DALI, DGD-1-DE4DALI

Contents

Specifications	3
General information	3
Safe operation	3
Advantages	4
Installation	4
Operation	4
Web interface settings	5
ArtNet settings	6
DALI control	7
Network settings	8
Connection scheme	9
Technical maintenance	10
Notes	10

Specifications

Supported protocols	ArtNet, sACN, DMX512, RDM, DALI
Data refresh rate	44 Hz
DMX ports	1 isolated
DMX connectors	Terminal blocks 15EDGVC
Controllable output lines	2 or 4 DALI
Ethernet port	10/100 Base-TX
Power supply	~90-250 VAC, 50/60 Hz or 15V
Mains Fuse	0.5 A
Operating Temperature	-40...+70°C
IP Rating	IP 20
Dimensions, mm	142(D) x 105(H) x 75(W)

General information

DALIGate DIN is DIN rail mounted converter that converts ArtNET/sACN/DMX signal into DALI protocol to include DALI lighting fixtures into controllable lighting network.

With DIN rail mounting hassle-free installation and ArtNET/sACN/DMX input, DALIGate DIN is ideal as indoor solution for mixed lighting control purposes in theatres, small venues, architectural installations, industrial, warehouse, and agricultural lighting.

Safe operation

In installation, operation, preventive maintenance and repairs of the device, the requirements of the safety rules must be followed. To ensure safe and reliable operation of the devices, please observe the following requirements:

Use the device only for its intended purpose

Do not use devices that shows signs of malfunctioning

Avoid strong physical impacts on the device

Protect devices and cables from contact with moisture or other corrosive liquids

Prevent any improper disconnection of the Ethernet cable from the device being disconnected

Whenever a fault is detected in the device, please contact the manufacturer.

Warning!

The device uses hazardous voltage AC 90-250V

Advantages

- 2 DALI interfaces
- No external power supply for DALI is needed
- Simple web interface
- Selectable ArtNET/sACN or DMX512 control

Installation

Before mounting and power up, it is necessary to verify protective earthing and cable connections.

1. Ensure the device has no damage due to transportation
2. Mount device on DIN rail
3. Connect Ethernet cable
4. Connect DMX line input (if necessary) and DALI lines outputs
5. Connect the power cable
6. After few seconds, port status LEDs will indicate the state. Open device's web-interface on the computer connected to the same network as the DALIGate device
7. Open the Network Settings tab
8. STATIC IP ADDRESS field will display the address of the device, SUBNET MASK field will display the network mask. If necessary, fill the IP and Subnet fields for the required network settings (by default, device has IP 2.0.0.100 and Subnet 255.0.0.0). Click "Save settings" so that the new settings take effect

Warning!

Before mounting and turning on the power, you need to make sure protective ground cable connections and places of their connection

Operation

DALIGate devices start their normal operation in a few seconds after they have been powered up. Device always operates based on last saved settings. Viewing DALIGate settings does not affect normal operation until any of the settings have been saved. When changes are saved, the device applies the new settings immediately, without having to power it down.

Actual control of DALI devices is performed based on DALI interface conversion mode. If BROADCAST mode selected, value of START ADDRESS in ArtNet/sACN or DMX universe controls all devices on DALI line. If GROUP mode selected, 16 values beginning from START ADDRESS control the groups 0-15. If INDIVIDUAL mode selected, 64 values beginning from START ADDRESS control DALI devices 0-63.

Individual addresses of DALI devices are assigned during search procedure. After all devices found, they may be individually checked by clicking checkbox. Group number may be assigned to DALI device, to enable group conversion mode.

Web interface settings

DALIGate DIN devices support configuring most of their parameters through the Web interface using HTTP protocol (TCP port 80).

ArtNet settings

To access the settings page enter the IP address of the device to the browser. Main settings page of the DALIGate DIN device will be displayed.

Art-Net/DMX to DALI Converter

ART-NET SETTINGS

SETTINGS

DEVICE NAME:

DEVICE DESCRIPTION:

INPUT DATA PROTOCOL:

	SUBNET * 16 + UNIVERSE	START ADDRESS	MODE
CHANNEL 1	<input type="text" value="0"/>	<input type="text" value="1"/>	<input type="text" value="BROADCAST"/>
CHANNEL 2	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="text" value="GROUP"/>

Pic.1

ArtNet settings

Device name	edit device name
Input data protocol	editable device description
Off	switching input data source: ArtNet, sACN, DMX512

Subnet * 16 + Universe Art-Net subnet number (0-15), Art-Net universe number (0-15) or sACN universe number (1-65279)

Start Address DMX start address for the channel

Mode Conversion mode:
BROADCAST, GROUP, INDIVIDUAL

To save the changes in main settings, click **«Save settings»**.

To restore default values of main settings, click **«Set default»**.

To reset to the current saved values of main settings, click **«Reset»**.

DALI control

To edit the settings of one of DALI interfaces, click on the link “DALI1 CONTROL” or “DALI2 CONTROL”.

Art-Net/DMX to DALI Converter

The screenshot shows a web interface for the Art-Net/DMX to DALI Converter. On the left is a blue sidebar with navigation links: ART-NET SETTINGS, DALI1 CONTROL, DALI2 CONTROL, NETWORK SETTINGS, FIRMWARE UPDATING, and ABOUT. Below these links is a caption: **Pic.2** DALI control settings. The main content area is titled 'CURRENT DALI2 NETWORK' and contains a table with the following data:

SHORT ADDRESS	DEVICE TYPE	GROUP	CHECK
0	0	7	<input type="checkbox"/>
1	0	12	<input type="checkbox"/>

Below the table are several control buttons: Search, Refresh, All devices on, and All devices off. At the bottom, there are two dropdown menus for 'ADDR 0' and 'GROUP 0', followed by 'Add to group' and 'Remove from group' buttons.

Current DALI Network – shows the devices found on DALI line

- Short Address** Individual address of DALI device (0-63)
- Device Type** Code of type, returning by device
- Group** Current group number (0-15)
- Check** Checkbox for switching device individually on and off

- Search** Search – searching connected devices
- Refresh** Refresh – refresh list of detected devices
- All devices ON** All devices ON – switch on all devices
- All devices OFF** All devices OFF – switch off all devices

ADDR N, GROUP M, Add to group, Remove from group- adding/removing device N to/from group M.

Network settings

To edit the network settings of the device, click on the link **“Network settings”**.

Art-Net/DMX to DALI Converter

ART-NET SETTINGS

DALI1 CONTROL

DALI2 CONTROL

NETWORK SETTINGS

FIRMWARE UPDATING

ABOUT

NETWORK SETTINGS

STATIC IP ADDRESS

SUBNET MASK

DEFAULT GATEWAY

PRIMARY DNS SERVER

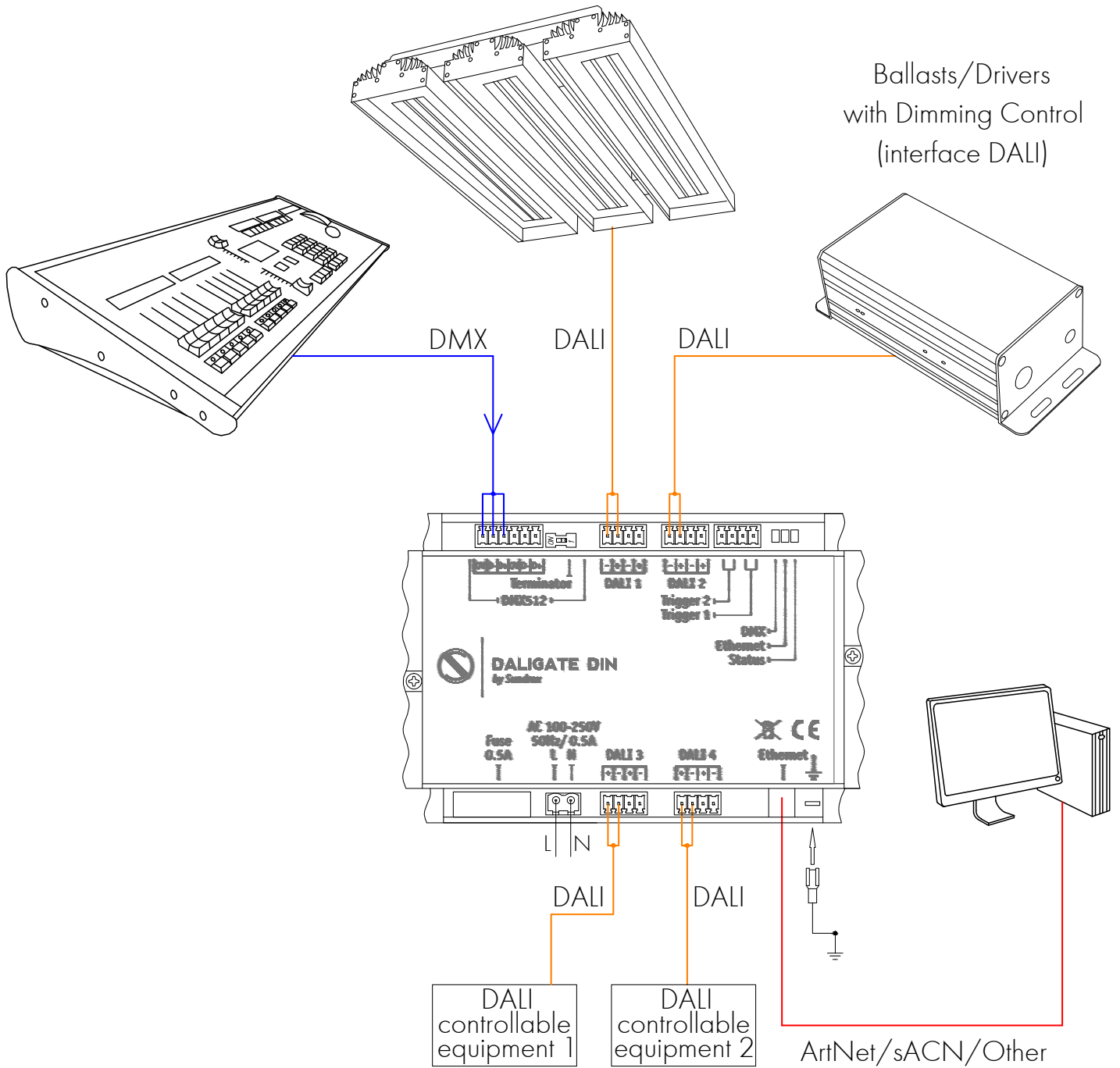
SECONDARY DNS SERVER

Pic.3
Network settings

MAC address	hardware address and secondary (permanent) IP address of the device
Main IP	set the main network address of the device
Subnetwork mask	set the mask of the IP subnet
Gateway IP address	set the network address of the gateway (if ability to operate via the Internet is required)
Art-Net UDP port	set the UDP port for ArtNet protocol
Static IP address	main network address of the device
Subnet mask	the mask of the IP subnet
Default Gateway	network address of the gateway (if ability to operate via the Internet is required)

To save the changes in network settings, click **«Save settings»**.

Connection scheme



Technical maintenance

Maintenance, search and troubleshooting should be performed by service personnel. The device should be free from dirt, dents, connecting cables and wires must be intact and securely fastened.

Notes



Sundrax Electronics
6008, First Central 200
2 Lakeside Drive, Park Royal, London
NW10 7FQ United Kingdom
+ 44 (0) 208 991 33 19
office@sundrax.com
www.sundrax.com

