



User Manual

DALIGate DIN

Contents

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

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

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 show signs of malfunctioning

Avoid strong physical impacts on the device

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

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

Warning!

The device uses hazardous voltage AC 100-250V

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).

Main 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.

DALIGate

Main settings



Main Settings Network Settings Firmware Updating

DALI 1 Control DALI 2 Control DALI 3 Control DALI 4 Control

Device Settings

Device name:

Device description:

Input Data Protocol:

Universe Settings

	Universe	Start address	Mode
DALI Port 1	<input type="text" value="0"/>	<input type="text" value="1"/>	<input type="text" value="Broadcast"/>
DALI Port 2	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="text" value="Group"/>
DALI Port 3	<input type="text" value="2"/>	<input type="text" value="2"/>	<input type="text" value="Individual"/>
DALI Port 4	<input type="text" value="3"/>	<input type="text" value="2"/>	<input type="text" value="Individual"/>

Triggers / Alarms settings

	Mode	Delay, ms	Action	Status
Trigger 1	<input type="text" value="Alarm, N.O"/>	<input type="text" value="50"/>	<input type="text" value="Capture Scene"/>	<input type="text" value="Open"/>
Trigger 2	<input type="text" value="Trigger, N.O"/>	<input type="text" value="75"/>	<input type="text" value="Capture Scene"/>	<input type="text" value="Open"/>

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Pic.1
Main settings

Device name Edit device name
Device description Editable device description
Input data protocol Switching input data protocol ArtNet, sACN, DMX512

Universe 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

Mode Conversion mode Alarm, N.O, Trigger, N.O
Delay Current input state (open, closed, active)
Action Save the current state of all DMX ports as a scene to call when the trigger is activated
Status Trigger port status

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

DALI control

To edit the settings of one of DALI interfaces, click on the link DALI 1 CONTROL

DALIGate

DALI 1 Control



[Main Settings](#) [Network Settings](#) [Firmware Updating](#)
[DALI 1 Control](#) [DALI 2 Control](#) [DALI 3 Control](#) [DALI 4 Control](#)

DALI Port 1

Short Address

Device Type

On/Off Test

Groups

Status: normal working

Initialize fixtures

Search devices

All devices on

All devices off

▼

Group 1 ▼

Add to group

Remove from group

Pic.2
DALI control

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Short Address	Individual address of DALI device (0-63)
Status	Device status
Initialize fixtures	Device initialization
Device Type	Code of type, returning by device
Search devices	Search connected devices
Group	Checkbox for switching device individually on and off
On/Off Test	Enable/Disable test
All devices on	All devices ON – switch on all devices
Add to group	Add to group
Groups	Groups (0-15)
All devices off	All devices OFF – switch off all devices

Network settings

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

DALIGate
Network settings

Main Settings **Network Settings** Firmware Updating

DALI 1 Control DALI 2 Control DALI 3 Control DALI 4 Control

Static IP Address: 2.0.0.100

Subnet Mask: 255.0.0.0

Default Gateway: 2.0.0.1

Primary DNS Server: 10.20.30.100

Secondary DNS Server: 10.20.30.101

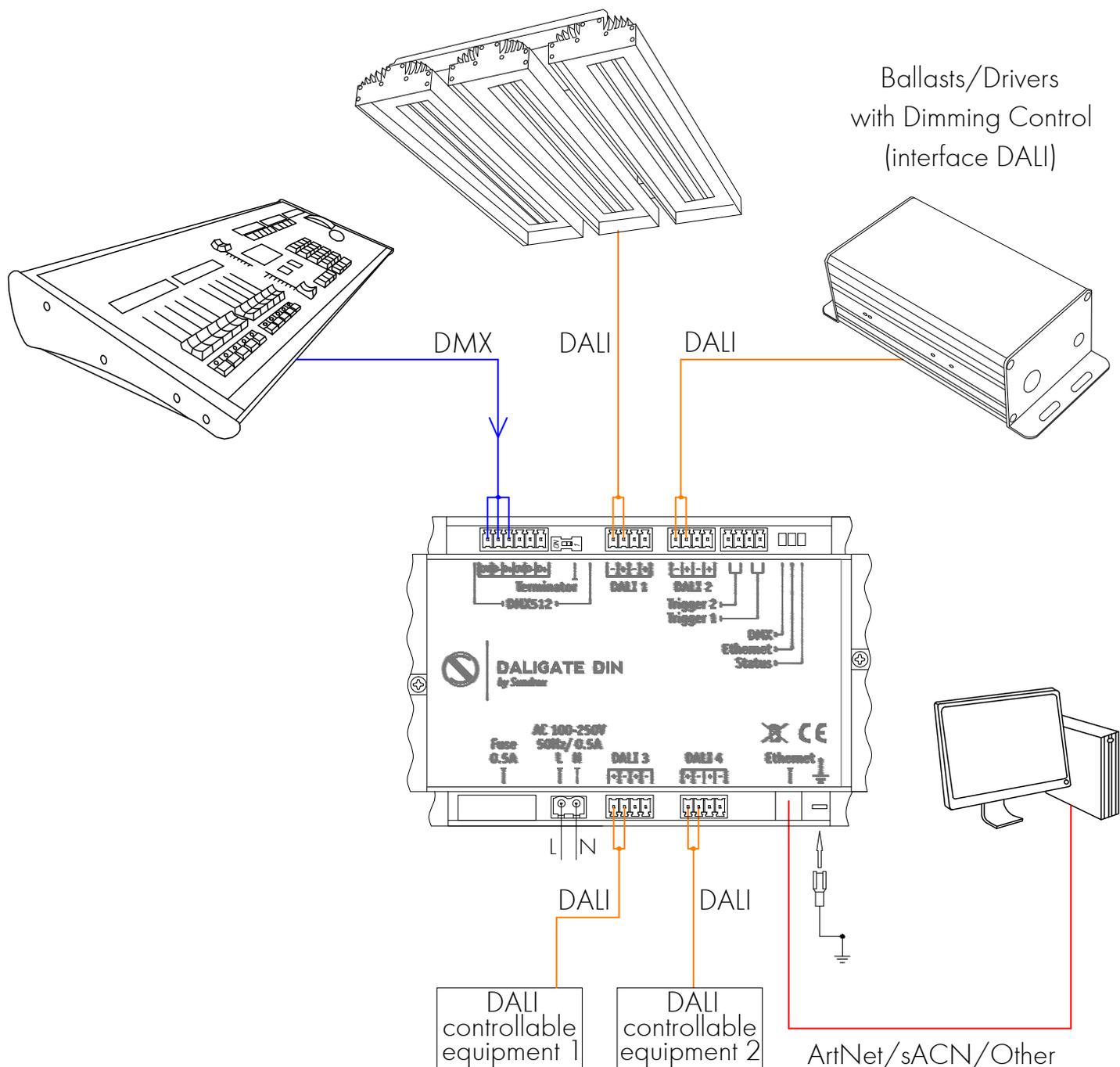
Save Settings

Pic.3
Network settings
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Static IP Adress	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



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