DALI 2

ZDALI2 TOUCHSCREEN
CONTROL UNIT

Why use DALI-2 with emergency lighting?

Emergency lighting provides light if the mains supply fails. It is a critical feature for building occupants' safety, and various regulations mandate it. In many countries, periodic emergency lighting testing is a legal requirement. DALI-2 enables emergency tests to be automated, triggered by DALI-2 commands or an optional timer.

Emergency control gear must implement both a function test and a duration test. The function test is a quick test of the battery, charging circuit, driver/relay and lamp; the duration test ensures that the battery can operate the light for the entire rated duration, such as 1 hour or 3 hours.

With DALI-2, the building manager and maintenance operator can easily maintain and test emergency lighting from a control unit. There is no need to physically verify each luminaire's health.

DALI-2 emergency lighting system is a safe and reliable solution to meet smart building emergency lighting requirements.

Why choose Zemper DALI-2 touch control unit?

1. Ensure building occupants' safety and meet all regulatory standards for emergency lighting. Maintain and record the health of your emergency lighting.

2. Proven DALI technology specifically for emergency lighting. DALI (DiiA) Certified. All DALI-compliant system components will be able to communicate with each other.

3. Installation with standard bus wiring.

4. Full installation management with new DALI-2 functionalities.

5. Central monitoring from **colour touch screen** panel to control, test, schedule tests and monitor emergency lighting. Clean and stylish touch screen control unit design to install wherever you want.

6. Simple to group and easy to install.

7. Switching mode from maintained to non-maintained or vice-versa, individually or per group.

8. Easily sharable logbook.

9. Monitor the system's status in real time, whenever and wherever you are.

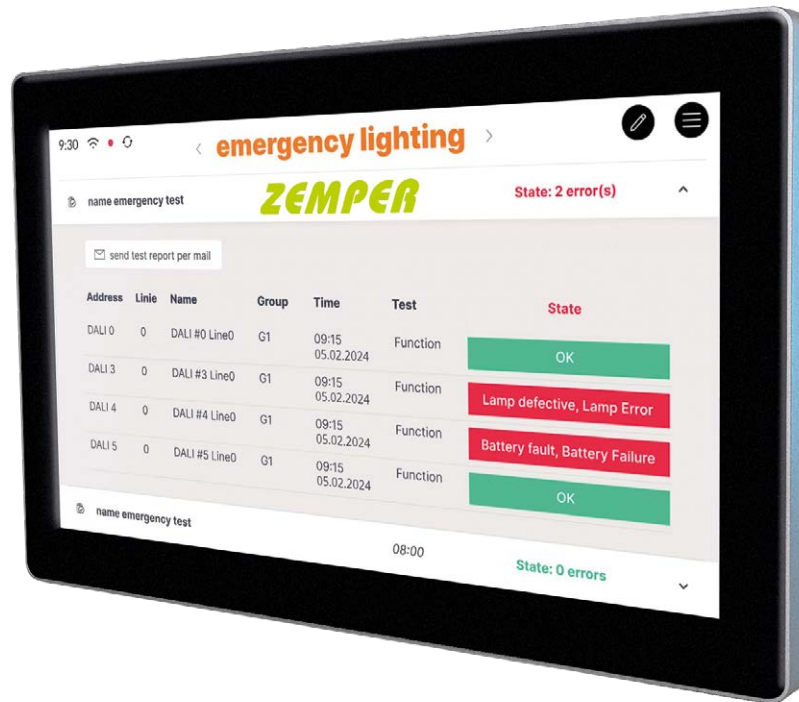10. Sustainability. The proactive monitoring of the luminaires status extends the lifespan of lighting component, reducing the frequency of replacements and minimizing the environmental impact associated with manufacturing and disposal of electronic waste.

   Our EVO10 range, our most endurable and sustainable range, with 10 year warranty is also available with DALI-2.

⤓ Download the EVO10 range brochure

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ZDALI2 TOUCHSCREEN CONTROL UNIT

SPECIFICATION

7" capacitive touchscreen with 24-bit colour depth. 1024 x 600 px · 24 bit colours.

IP20

Scheduling and automation of communication, functional and duration tests. 4-bus available with an additional device.

Rated supply voltage display 24-56 V DC or PoE (Power Over Ethernet).

Power consumption 3.5 W.

Number of DALI-line 1
Current consumption DALI-line <2mA.

Working temperature: -10 ºC to +50 ºC.
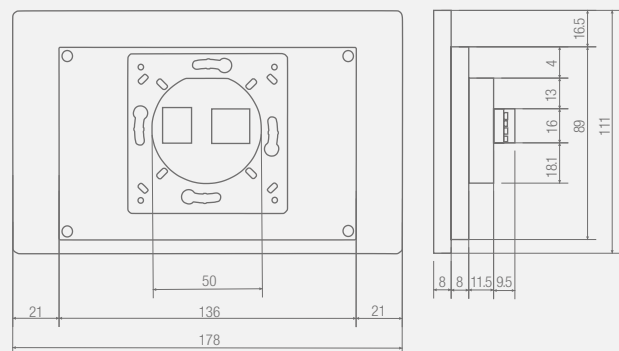
Dimensions: 178 x 111 x 8 mm.

Colour housing: metallic grey.
Colour frame: black.

DIMENSIONS (mm)

Description	Colour	Part number
ZDALI2 touchscreen control unit	Black	ZWEBDALI

CERTIFICATIONS

CE   UKCA

POWER SUPPLY FOR THE DALI BUS

DALI PS serves as power supply for the DALI bus system. Standardised voltage and current limitation as well as timing ensure a reliable bus communication. With the output current of up to 250mA an entire DALI line can be supplied. Up to 64 addressable DALI devices and an additional 20 to 30 control modules (DALI Sensors, MC, Touch panel…), up to an overall load of 200mA can be connected. Units with different output current and housing are available, suitable for DIN rail mounting, remote ceiling installation (housing with strain relief) or flush-mounted installation boxes.

Description	Part number
Power supply for the Dali bus	FABDA2

POWER SUPPLY FOR TOUCH SCREEN CONTROL UNIT

This compact module converts 4-20mA signals to DALI dim levels. The module has an integrated bus power supply for a small DALI system with up to 10 standard DALI ballasts (30mA).
The configuration of the dimming characteristics is possible with the help of jumpers.
An additional configuration with the DALI Cockpit Software is not possible.
The interface module requires a 12- 24V power supply.

Description	Part number
Power supply for touch screen control unit	FACDA2

DISPLAY BUS EXTENSION

Bus extender: to increase the bus up to 3 additional lines.

The module is used in combination with DALI-2 Touchscreen.
It allows a DALI system expansion with up to 3 additional DALI lines.
The device has 2 Ethernet sockets for connecting the DALI-2 Display and the local network. Up to three DALI lines can be connected via terminals DA1, DA2 and DA3.
The Display Bus Extension Module requires a 24V supply.
DIN rail housing suitable for installation in control cabinets.

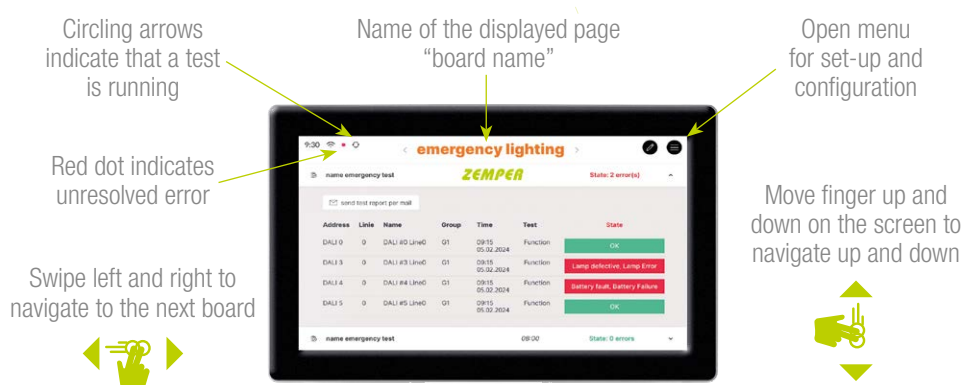| Description	Part number
Display Bus Extension	EBDA2

ZDALI2 TOUCHSCREEN CONTROL UNIT

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Multifunctional DALI-2 control and operating unit for DALI/DALI-2 emergency light systems

Usage

The DALI-2 Touchscreen is used for set-up, configuration and control of a DALI emergency light system. The DALI protocol standard IEC62386 is used to control the lighting equipment. Control all luminaries as groups or individual addresses via the display interface. The DALI-2 Touchscreen offers scheduling for tests (communication, function and duration), an overview of recently conducted emergency luminaires tests, and quick steps for resolving errors in case of test failures.

Circling arrows indicate that a test is running

Name of the displayed page "board name"

Open menu for set-up and configuration

Red dot indicates unresolved error

Move finger up and down on the screen to navigate up and down

Swipe left and right to navigate to the next board

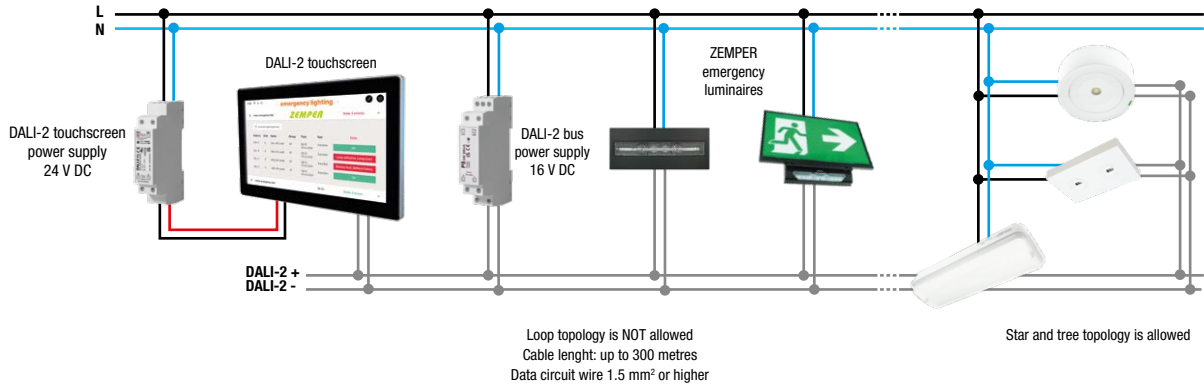Screen showing tests results with luminaires health.

Functionality and Features

- The DALI-2 Touchscreen serves as a universal module for control, set-up and configuration of a DALI emergency light system.

- Easy installation: the device can be installed in a standard switch box.

- E-mail support of test reports.

- The set-up and configuration menu can be opened with the menu button at the top right. General settings and emergency test settings can be found there, as well as the board overview.

- Multi-master capable: multiple operating devices can be used together with an emergency light display in the same DALI/DALI-2 circuit.

- By default, the display shows the user interface for monitoring the emergency light system.

- The user interface of the DALI-2 emergency display is made up of two pages (boards): The emergency lighting status board and the error resolving board.

- The view between the two boards can be changed by swiping right or left, or selecting the arrow in the top next to the heading.

- The length of the board is flexible: with an up or down swipe of your finger, you can navigate in that direction.

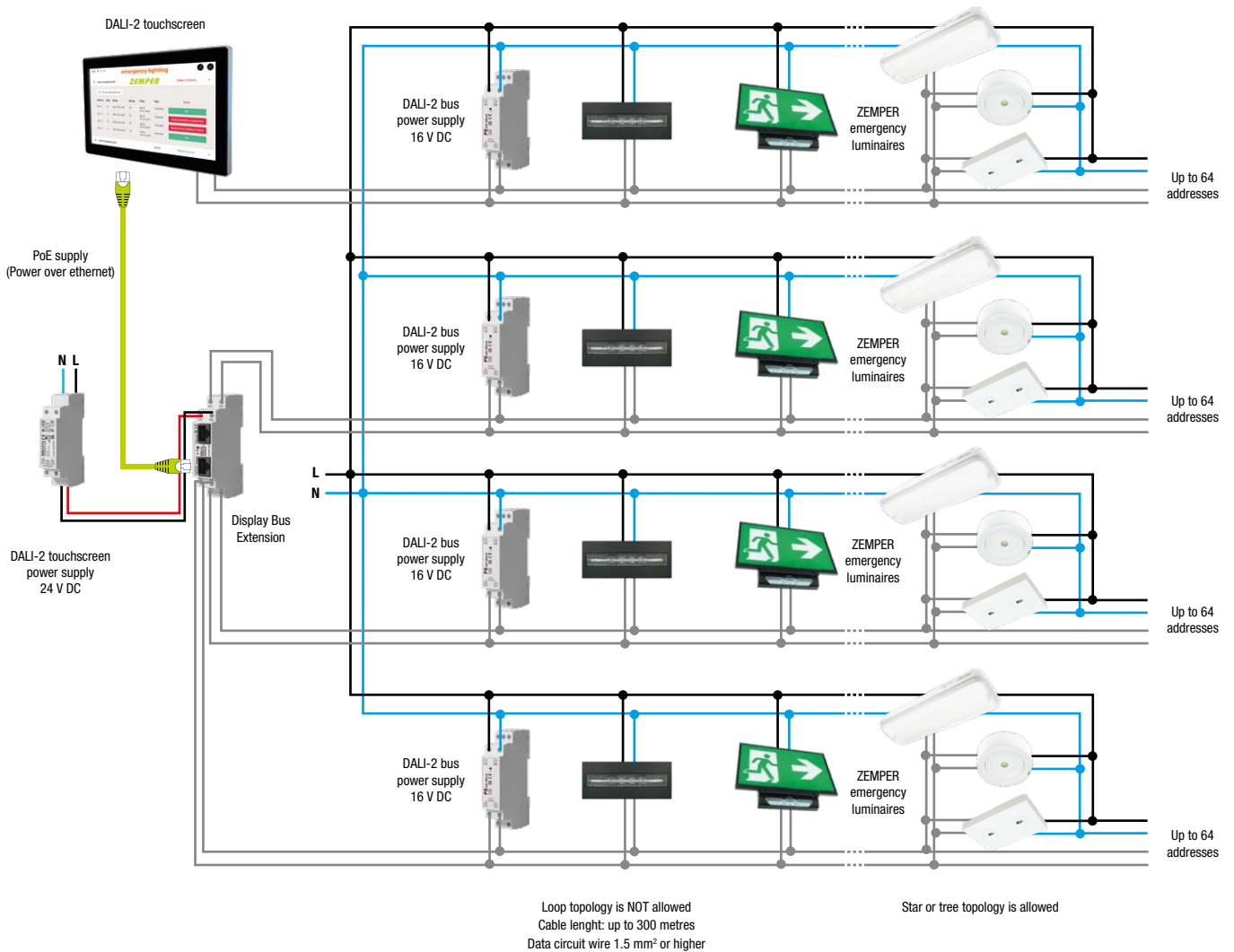- Scheduling and automation of communication, function and duration tests.

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Figure 1. Single Bus
(max. 64 luminaires)

DALI-2 touchscreen

DALI-2 touchscreen power supply 24 V DC

DALI-2 bus power supply 16 V DC

ZEMPER emergency luminaires

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N

DALI-2 +
DALI-2 -

Loop topology is NOT allowed
Cable lenght: up to 300 metres
Data circuit wire 1.5 mm² or higher

Star and tree topology is allowed

Figure 2. Multiple Bus
(max. 256 luminaires)

DALI-2 touchscreen

PoE supply (Power over ethernet)

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DALI-2 touchscreen power supply 24 V DC

Display Bus Extension

DALI-2 bus power supply 16 V DC

ZEMPER emergency luminaires

Up to 64 addresses

DALI-2 bus power supply 16 V DC

ZEMPER emergency luminaires

Up to 64 addresses

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DALI-2 bus power supply 16 V DC

ZEMPER emergency luminaires

Up to 64 addresses

DALI-2 bus power supply 16 V DC

ZEMPER emergency luminaires

Up to 64 addresses

Loop topology is NOT allowed
Cable lenght: up to 300 metres
Data circuit wire 1.5 mm² or higher

Star or tree topology is allowed

Made in EU

Entirely designed and
manufactured in **Spain**

**The Zemper Way
to a Better World**

We use recycled paper in the production of our catalogues, thus contributing to the conservation of forests and biodiversity.
This paper requires up to 50% less energy and 90% less water, which significantly reduces environmental impact, reduces carbon
dioxide emissions and promotes the circular economy. The ink we use is free of mineral oils, cobalt salts and VOCs (volatile organic
compounds) so we contribute to limiting the environmental impact. We make more sustainable decisions and help protect our planet.

ZEMPER
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