

## Lunatone DALI

- Control & operating units
- Control gear
- Interface modules
- wDALI
- Luminaires
- Software





## DALI system

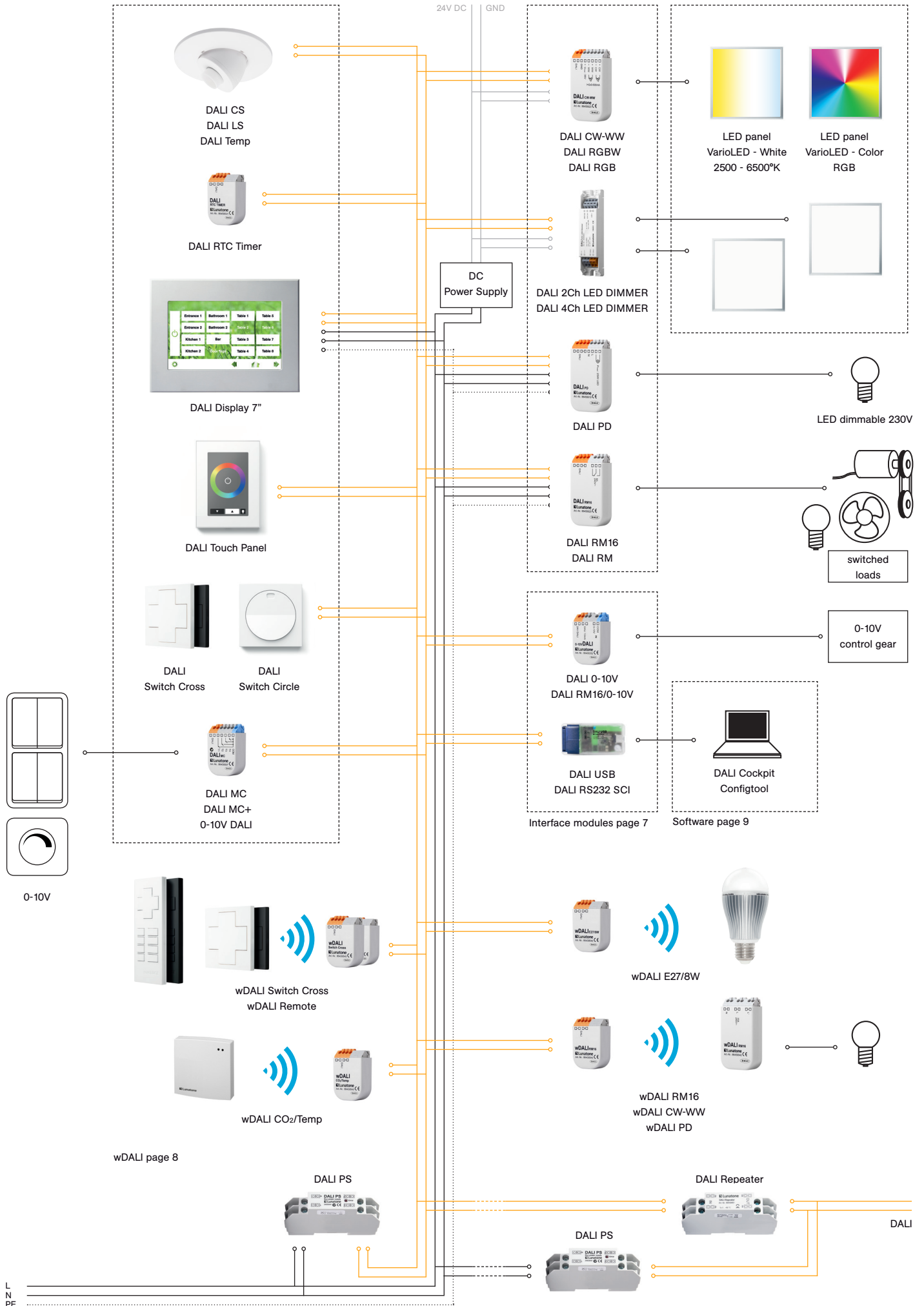
DALI ("Digital Addressable Lighting Interface") is the name of a standardised two-wire bus system for controlling lighting installations and similar systems of contemporary building management.

Both in terms of price and functions, DALI is positioned below complex building services control systems. Via interfaces a DALI system can also be linked to an existing building management system, if required. The DALI system then works as an autonomous and self-contained subsystem, although it is able to communicate or even interact with other or higher-level building automation facilities.

This open (manufacturer-independent) system, which has become very popular during the past years, boasts the following benefits:

- Simple two-wire bus (no special cabling or plugs required, protected against reversed polarity)
- Command devices and extension modules are powered via the bus itself
- Easy configuration for even the most difficult lighting tasks
- Monitoring of operating devices via the bus (e.g. lamp failure alert)
- Low system price

For further information see [www.dali-ag.org](http://www.dali-ag.org)



# DALI overview

Using DALI, impressive lighting scenes can easily be implemented in an economically efficient way.

The programme includes control & operating units, control gear, interface modules, wDALI, luminaires and software.

In contemporary lighting management, touch panels, touch screens, switches and sensors are required for implementing extensive control and operating procedures in a convenient and easy manner.

## DALI control & operating units

page 3+4



DALI Display 7"



DALI Switch Cross



DALI CS



DALI MC  
DALI MC+



DALI Temp



DALI RTC Timer



DALI Touch Panel



DALI Switch Circle



DALI LS



DALI GC  
DALI GC-A



DALI SC  
DALI SC-A

DALI commands are converted into corresponding electronic control signals and directly switch or address devices or luminaires.

## DALI control gear

page 5+6



DALI RM



DALI RM16



DALI PS



DALI 2Ch  
LED DIMMER



DALI RGBW



DALI CW-WW



DALI PD



DALI Repeater



DALI 4Ch  
LED DIMMER



DALI RGB

In addition to DALI, other control procedures are used in lighting control technology as well.

In order to be able to integrate these devices into a DALI circuit, appropriate interface converters are required.

## DALI interface modules

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DALI 0-10V



DALI RM16/0-10V



DALI DSI



DALI USB



DALI RS232 SCI

The term wireless DALI (wDALI) describes the wireless connection of control gear or luminaires to a DALI system.

Each wDALI unit consists of two parts, one of which is connected to the DALI bus.

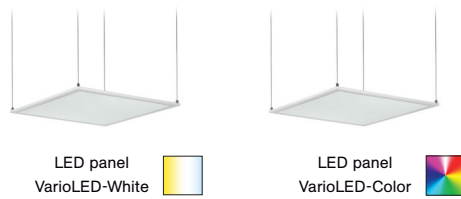
The second component can be positioned anywhere within the range of coverage of the radio connection (approx. 20 to 50 m).

## DALI - wDALI



These luminaires can easily be integrated into existing bus systems and can be switched, dimmed or changed in colour or colour temperature using DALI control commands.

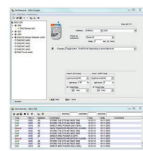
## DALI luminaires with white balance or RGB



Specifically developed PC software is used for easy configuration of DALI systems and for monitoring DALI bus communication.

Download available at:  
[www.lunatone.com](http://www.lunatone.com)

## DALI PC software



DALI Cockpit

This central lighting control unit allows the use of dimmable LED retrofit lamps in order to benefit from the advantages of energy-efficient LED lighting.

Existing cabling can be used without any additional installation effort.

## Central lighting control unit for LED retrofit lamps



PD 3000 V3D  
LED high-performance dimmer



## DALI control & operating units

In order to conveniently implement extensive control and operating procedures in modern lighting management systems, a variety of input units such as touch panels, touch screens, switches and sensors are available.

Striking lighting scenes, lighting scenarios and impressive colour sequences can thus be implemented in an easy way, allowing to programme and control up to 128 DALI devices.



### 7" DALI Display

DALI control & operating unit with display and touch panel.

- Lighting management system for 2 DALI circuits (max. 128 units)
- Commissioning, control and operating unit
- 7" colour touch screen with 24-bit colour depth
- Background wall lighting using RGB-LED
- Manual dimming and switching
- Manual or time-based call-up of scenes
- Sequence programming based on weekdays (schedule)
- Labelling of scenes, groups, sequences and schedules
- Optimised mode for RGB colour lighting management
- Call-up of circadian daylight-based sequences
- Compatible with DALI DT8

DALI Display 7" Art. Nr. 86458626



initially supplied cards

### DALI Touch Panel

Multi-functional touch panel for controlling DALI installations with various predefined functions and several freely configurable user interfaces.

The DALI Touch Panel allows, for instance, to control several luminaire groups, to call up predefined lighting scenes or to specify colours and brightness levels directly.

The DALI Touch Panel is also highly flexible in design: the user interface can easily be adjusted to any application and environment by exchanging the cards initially supplied or individually prepared.

The DALI Touch Panel is multi-master compatible, i.e. several control modules can be installed in parallel within one DALI circuit.

DALI Touch Panel Art. Nr. 24035465



### DALI Switch Circle

Non-contact switch for DALI systems based on Hall sensors. The most striking feature of this new toggle switch range is the extra dimming function.

DALI Switch Circle White Art. Nr. 86458622



### DALI Switch Cross

The DALI Switch Cross is a control module designed as a cruciform 4-way momentary action switch for switching, dimming and adjusting the colour temperature. Via the cockpit, target address, switching behaviour and DALI commands can be assigned to each key.

DALI Switch Cross White Art. Nr. 86459528

DALI Switch Cross Black Art. Nr. 86459529

## DALI CS

The compact DALI presence detector has an integrated brightness sensor and can also be supplied with a temperature sensor, an IR or RF remote control receiver.

The application range covers lighting control as well as control of room temperature and blinds.

DALI CS Temp Art. Nr. 86458621  
DALI CS IR Art. Nr. 86458672  
DALI CS RF Art. Nr. 86458938



## DALI LS

DALI LS is a sensor unit for measuring lighting intensity levels.

The measured level can be read out as a measurement or used as actual value for the internal brightness control algorithm.

DALI LS Art. Nr. 89458674



## DALI Temp

The DALI Temp module measures ambient temperature. The currently measured level can be read out at any time.

DALI Temp Art. Nr. 86459544



## DALI RTC Timer

The DALI Real Time Clock Timer module serves as a timer for DALI commands. Day- and week-based schedules for sending DALI commands can be specified.

DALI RTC Timer Art. Nr. 86459531



## DALI MC

The DALI MC module is an interface for connection of 4 switches or momentary-action switches to which various DALI commands can be assigned using a PC. The compact DALI MC module can be fitted in the flush-type box behind the switch, thus turning a conventional light switch or momentary-action switch into a DALI operating unit.

DALI MC Art. Nr. 86458507



## DALI MC+/0-10V

The DALI MC+ module is an extension to the DALI MC module. The inputs can either process switching signals or a 0-10V analogue signal or read in potentiometer data. In addition, the scope of functions has been extended by DALI commands for controlling the colour temperature.

DALI MC+/0-10V Art. Nr. 86459532

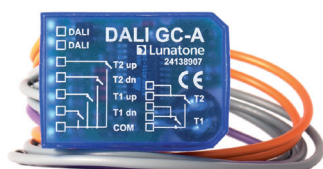


## DALI GC / GC-A

DALI GC and GC-A are control units for addressing 2 DALI groups.

If this compact module is installed, light switches or momentary-action switches can send dimming and switching commands to two DALI groups.

DALI GC Art. Nr. 24033450  
DALI GC-A Art. Nr. 24138907

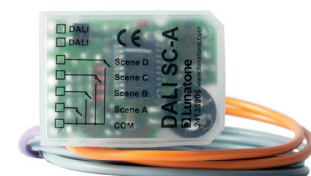


## DALI SC / SC-A

DALI SC and SC-A are control units for calling up DALI scenes.

The rotary switch can be used to define which of the 16 possible scenes is to be called up at the push of a button.

DALI SC Art. Nr. 24034263  
DALI SC-A Art. Nr. 24138906



# DALI control gear

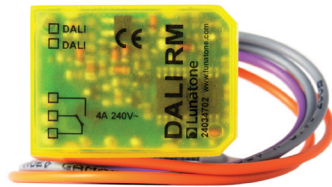
They convert DALI commands into an appropriate electrical control signal to directly address the luminaires. Multi-channel LED dimmers and LED ballasts for colour and

colour temperature control are included in this category as well as modules for addressing switched loads or dimmable LED retrofit lamps.

## DALI RM

The DALI RM module provides a relay contact that can be controlled via the DALI bus and is used for switching luminaire units and small-scale electrical consumers or for addressing contactors. Thus, loads without a DALI input can also be connected to the DALI system.

DALI RM Art. Nr. 24034702



## DALI RM16

The DALI RM16 module provides a relay contact that can be controlled via the DALI bus and allows to directly switch mains loads with transient pulses of up to 16 A and permanent loads of up to 2 kW.

Special features of DALI RM16:

- Switch-on and/or switch-off delays can be programmed via the DALI bus.
- Power consumption of DALI bus <math><2.5\text{ mA}</math>
- Also available as DIN rail module or in a housing with strain relief.

DALI RM16 Art. Nr. 86458629

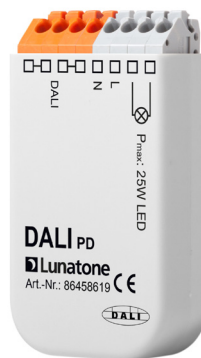


## DALI PD

The DALI PD is a phase dimmer with DALI input for switching and dimming luminaire units. Suitable for dimmable LED lamps ranging from 1 W to 25 W, e.g. for integration of 230V~ LED lamps with Edison screw base into the DALI system, e.g. chandelier fitted with 7 x 3 W candle bulbs.

Also available as DIN rail module or in a housing with strain relief.

DALI PD Art. Nr. 86458619



## DALI PS

Power supply for the DALI bus system. This DALI power unit provides up to 250 mA and can supply a complete DALI bus installation.

Up to 64 addressable units of 2 mA each and 20 to 30 additional control modules (DALI GC, SC, MC, CS, ...) without a bus address can be connected to a DALI circuit.

Suitable for DIN rail mounting.

DALI PS Art. Nr. 24033444



## DALI Repeater

This module allows to extend a DALI line from usually a maximum of 300 m to up to 600 m. The Repeater is supplied directly by the DALI bus line.

In combination with the additionally required bus supply (DALI PS), even DALI circuits with high overall power consumption (>250 mA) can be implemented.

Suitable for DIN rail mounting.

DALI Repeater Art. Nr. 86458401





## DALI 2-Ch-LED Dimmer

LED ballast with two channels. Each channel has its own DALI address.

Input voltage from 6 V to 48 V, 2 PWM outputs (16 bits). Versions with current and voltage output available.

Also available as DIN rail module or one-channel device.

DALI 2-Ch-LED DIMMER Art. Nr. 86458558



## DALI 4-Ch-LED Dimmer

LED ballast with four channels. Each channel has its own DALI address.

Input voltage from 6 V to 48 V, 4 PWM outputs (16 bits). Versions with current and voltage output available.

Also available as DIN rail module or one-channel device.

DALI 4-Ch-LED Dimmer Art. Nr. 86458557



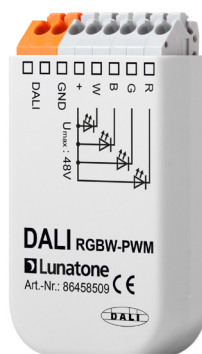
## DALI RGBW

The DALI RGBW interface allows direct addressing of luminaires with RGB or RGBW input.

Input voltage from 6 V to 48 V, 4 PWM outputs (16 bits). Versions with current and voltage output available.

Also available as DIN rail module or in a housing with strain relief.

DALI RGBW Art. Nr. 86458509



## DALI RGB

The DALI RGB interface allows direct addressing of luminaires with RGB input.

Input voltage from 6 V to 48 V, 3 PWM outputs (16 bits). Versions with current and voltage output available.

Also available as DIN rail module or in a housing with strain relief.

DALI RGB Art. Nr. 86458514



## DALI CW-WW

The DALI CW-WW interface allows direct addressing of dimmable luminaires, the light colour of which can be adjusted from cool white to warm white.

Input voltage from 6 V to 48 V, 2 PWM outputs (16 bits). Versions with current and voltage output available.

Also available as DIN rail module or in a housing with strain relief.

DALI CW-WW Art. Nr. 86458620

DALI CW-WW PWM Art. Nr. 86458673



## DALI interface modules

Various interface technologies are applied in lighting control technology. Suitable interface converters allow even integration of loads with no DALI input into a DALI circuit.

The DALI system can be accessed via PC or SPS, and configuration and/or control tasks can be performed.

### DALI 0-10V

The DALI 0-10V interface converts DALI signals into 0-10V voltage, which allows direct addressing of electronic ballasts or LED ballasts with a 0-10V or 1-10V interface.

DALI 0-10V Art. Nr. 86458508



### DALI RM16/0-10V

The DALI RM16/0-10V is an interface module for addressing and switching electronic ballasts with 0-10V control input.

In addition to conversion of DALI dimming levels into analogue voltage, the electronic ballast power supply is switched on and off by means of an integrated switching relay.

DALI RM16/0-10V Art. Nr. 86458667



### DALI DSI

Converter from DALI bus to DSI signals.

This compact module can be fitted in conventional flush-type boxes, integrating DSI-based ballasts such as PCA ECO for fluorescent tubes, TEL transformers for halogen lamps or PHD phase dimmers into a DALI lighting control system. The DALI DSI module is assigned its own address by the DALI bus and can be allocated to both groups and scenes.

DALI DSI Art. Nr. 24034689



### DALI USB

DALI USB is a PC-USB interface module.

This interface allows addressing, programming and controlling DALI installations and control gear using installation software via a PC.

DALI USB Art. Nr. 24138923



### DALI RS232 SCI

Serial interface to connect a PC or an SPS control unit to a DALI bus. Suitable for DIN rail mounting.

DALI RS232 SCI DIN Rail Art. Nr. 86458625  
 DALI RS232 SCI DIN Rail RJ45 Art. Nr. 22176404  
 DALI RS232 SCI DIN Rail 24V Art. Nr. 86458624  
 DALI RS232 SCI Mouse Art. Nr. 24033463  
 DALI RS232 SCI2 DIN-Rail Art. Nr. 86458626  
 DALI RS232 SCI2 DIN-Rail RJ45 Art. Nr. 22176438  
 DALI RS232 SCI2 DIN Rail 24V Art. Nr. 86458976  
 DALI RS232 SCI2 Mouse Art. Nr. 24166096



## DALI - wDALI

NEU

The term wireless DALI (wDALI) describes the wireless connection of control gear or luminaires to a DALI system. Each wDALI unit consists of two parts, one of which is connected to the DALI bus.

The second component can be positioned anywhere within the range of coverage of the radio connection (approx. 20 to 50 m).

This allows, on the one hand, to control DALI components using wireless switches or remote control units. On the other hand, wDALI luminaires (with no DALI cabling) can be integrated into a DALI system.

The wDALI system provides an easy-to-install option of setting up and extending DALI systems.

### wDALI Switch Cross

The wDALI Switch is a DALI control module with wireless connection to the DALI bus. The battery-operated switch can be mounted anywhere without any installation effort. Every key of the wDALI Switch can be assigned a target address, switching behaviour and DALI commands.

Alternatively, a radio-controlled DALI MC version is also available, allowing the use of conventional switches as well.

wDALI Switch Cross white Art. Nr. 86459541  
wDALI Switch Cross black Art. Nr. 86459540



### wDALI Remote

This remote control for DALI systems allows convenient control of lighting installations, also supporting the call-up of scenes, sequences, group commands and many more.

wDALI Remote Control white Art. Nr. 86459534  
wDALI Remote Control black Art. Nr. 86459533



### wDALI CW-WW

wDALI CW-WW is the wireless version of the DALI CW-WW module. It can be used to address dimmable luminaires, the light colour of which can be adjusted from cool white to warm white, without requiring any physical connection to the DALI circuit.

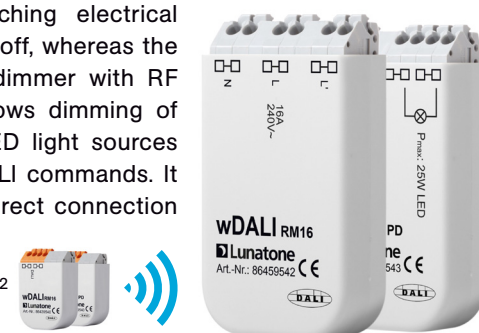
wDALI CW-WW Art. Nr. 86458692



### wDALI RM16 / PD

The wDALI RM16 (bistable switching relay) allows switching electrical consumers on and off, whereas the wDALI PD phase dimmer with RF remote control allows dimming of dimmable 230V LED light sources up to 25 W via DALI commands. It does not require direct connection to the DALI bus.

wDALI RM16 Art. Nr. 86459542  
Also available as 24V version.



wDALI PD Art. Nr. 86459543

### wDALI E27/8W

wDALI LED lamp (8 W) and E27 base. The lamp has a built-in wDALI receiver and can therefore be integrated into a DALI circuit and addressed via DALI commands without being wired to a bus.

wDALI E27/8W Art. Nr. 86459221



### wDALI CO<sub>2</sub>/Temp

The measured values of CO<sub>2</sub> and temperature can be read via DALI. A physical connection between sensor and DALI circuit is not needed. The battery-operated sensor can be mounted anywhere without additional installation effort.

wDALI CO<sub>2</sub>/Temp Art. Nr. 86459535



# DALI luminaires

In order to be able to make use of all DALI benefits, luminaires with a variety of control options are required. Colour sequences and white balance combined with cutting-edge control

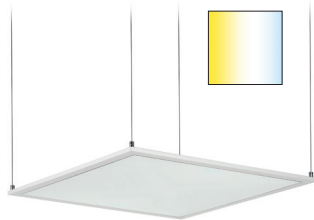
technology and LED products enable versatile, modern and energy-efficient applications.

## LED panel VarioLED-White

Dimmable, glare-free and ultra-flat LED ceiling-mounted luminaire with variable colour temperature to create a pleasant room ambience. Two more reasons for choosing this innovative luminaire: its high energy efficiency and long service life.

The 15 mm VarioLED panel can be used as suspended or wall-/ceiling-mounted luminaire (grid ceilings).

LED Panel Vario LED - White Art. Nr. 86458924



## LED panel VarioLED-Color

RGB LED luminaire for impressive illumination of domestic areas, bars, exhibition rooms, etc.

The 15 mm VarioLED panel can be used as suspended or wall-/ceiling-mounted luminaire (grid ceilings).

LED Panel Vario LED - Color Art. Nr. 86458925



# DALI PC software

Lunatone PC software for configuring DALI systems and for monitoring bus communication.

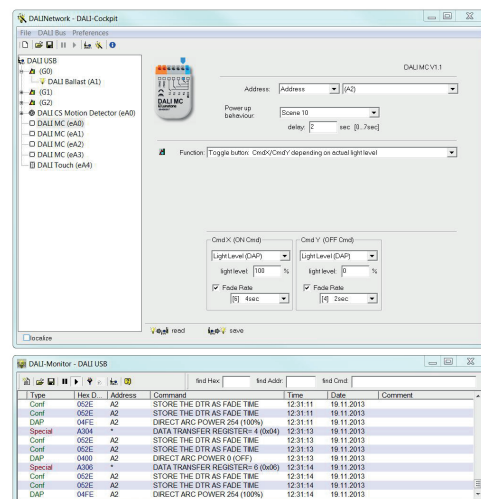
## DALI Cockpit

Convenient PC software for configuring DALI systems and for monitoring communication along the DALI bus.

DALI Cockpit features:

- Configuration of Lunatone DALI components
- Configuration of standard DALI loads (ballasts)
- Addressing DALI systems
- Assigning groups
- Generating scenes
- Recording bus communication
- Sending individual commands

Link to software download: <http://lunatone.at/de/downloads>



# Central lighting control unit for LED retrofit lamps

By using this central lighting control unit and replacing conventional light sources with dimmable LED retrofit lamps, the benefits of energy-efficient LED lighting can be used to optimum

extent. The existing cabling installed can be used without any additional effort.

## PD3000 V3D LED high-performance dimmer

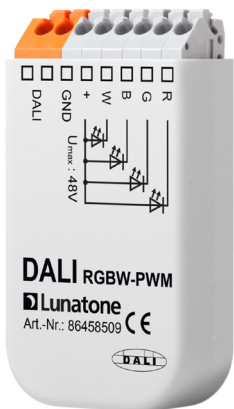
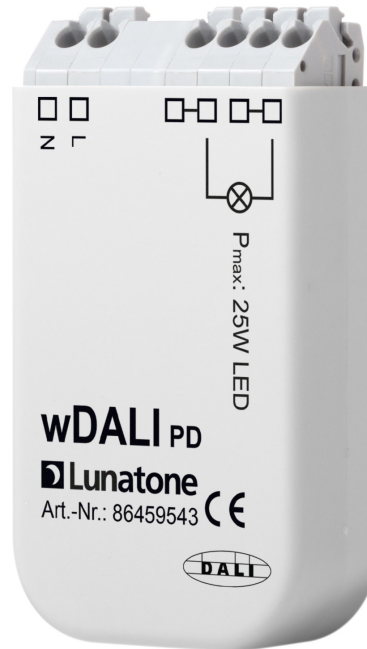
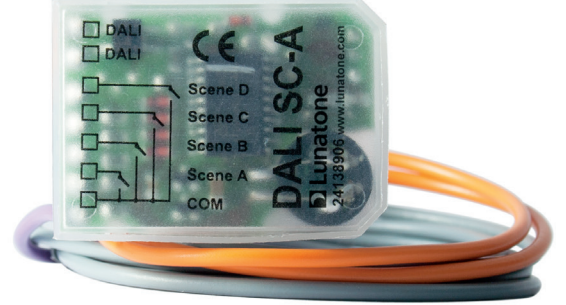
The central lighting control units with built-in multi-channel lighting control boast the following advantages:

- Suitable for dimmable LED retrofit luminaires
- Trailing edge phase dimmer (especially suitable for LED)
- Use of existing installation
- Up to 10 channels can be controlled individually
- Up to 1 kW output power per channel
- Each channel can be separately adjusted in brightness
- Output power range separately adjustable for each channel
- Daylight-based brightness control for each channel using light sensors (DALI LS)
- Constant light control for mixed lighting comprising both artificial lighting and daylight
- Customer-specific extensions possible, special solutions upon request

PD 3000 V3D Art. Nr. 96642870







## Lunatone

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