Lunatone

DALI CDC

Datasheet

Circadian Daylight Control Device

DALI Control Device for automatic Tc-adjustment of tunable white luminaires
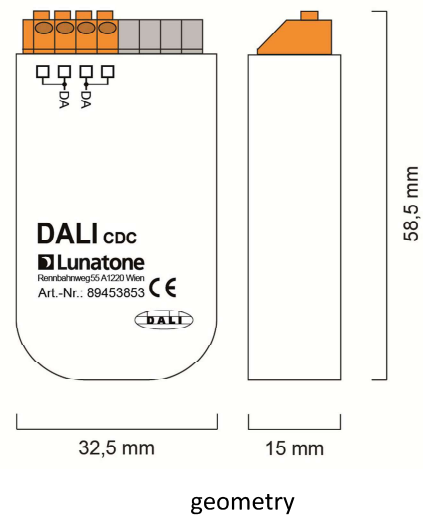
Art. Nr. 89453853

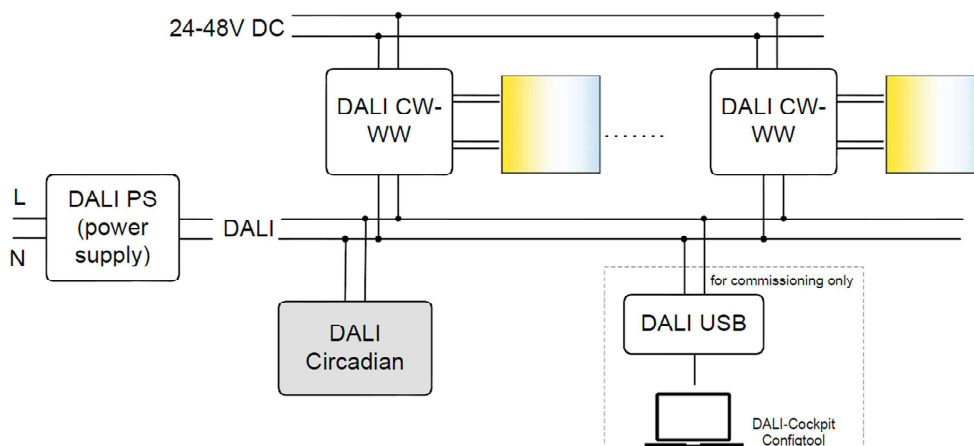# DALI CDC Circadian Daylight Control Device

Overview

- Control device for DALI DT8 luminaires (color mode Tc)
- biorythmic time-adjusted Tc reference value
- DALI real time clock
- daylight saving time (DST)
- configurable scene behaviour (up from firmware version 1.5)

- the clock and the Tc characteristics over time can be configured with the help of the DALI Cockpit software tool
- The DALI CDC module must not be connected to the mains. It is supplied directly via the DALI signal line.
- Battery inside, clock is set to local time (GMT+1) as factory default
- Simple installation due to DALI double-clamp connector

Specification, Characteristics

type	DALI CDC
article number	89453853
power supply	via DALI signal line
typ. current consumption	5 mA
input/output	DALI
RTC	quarz based
operating temperature	0°C-50°C
Storage temperature	-20°C-70°C
protection class	IP20
geometry	59mm x 33mm x 15mm
connecting wire cross section	0.5-1.5 mm^2

geometry

typical application

Installation

The DALI CDC is connected to the DALI-line. It is powered like all DALI modules directly by a DALI PS via the DALI signal line. A typical value of the DALI CDC current consumption is 5 mA.

The connection to the DALI-line is polarity free and protected against overvoltage of up to 270Vac.

The compact DALI CDC can easily be installed in back boxes.

Addressing and Configuration

The DALI CDC can be used immediately. The RTC time is set to local time in production. The default effective range is broadcast.

For changing the default configuration the DALI-Cockpit software tool can communicate with the DALI CDC. The DALI-Cockpit software is a configuration tool for DALI systems. Hence standard DALI ballasts can be addressed and configured as well as the DALI CDC.

Once detected by the DALI Cockpit the time can be set and the Tc-setpoint for each hour can be adjusted.

DALI Cockpit and DALI USB interface are required for commissioning only.

Function

Each minute the DALI CDC module sends the Tc-value to the effective range. As effective range a single address, group address or broadcast can be used.
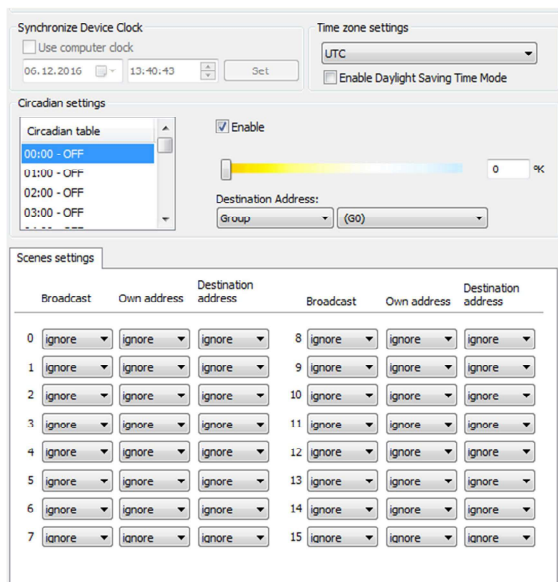
The Tc characteristic is based on the 24 set points (one for each hour). Between the set points the value is interpolated.

set point table (factory preset):

Time	Tc[K]	Time	Tc[K]
0h	2700K	12h	5800K
1h	2700K	13h	5685K
2h	2700K	14h	5318K
3h	2700K	15h	4767K
4h	2700K	16h	4101K
5h	2700K	17h	3412K
6h	2700K	18h	2700K
7h	3412K	19h	2700K
8h	4101K	20h	2700K
9h	4767K	21h	2700K
10h	5318K	22h	2700K
11h	5685K	23h	2700K

Up from firmwareversion 1.5 the reaction on a GOTO SCENE X command can be configured.

The DALI CDC can be activated and deactivated by a scene recall or the command can just be ignored. The scen behaviour can be set up separately for the device address, the effective range and broadcast.

Date and time can be read using QUERY SCENE cmds:

QUERY SCENE 0 LEVEL: seconds

QUERY SCENE 1 LEVEL: minutes

QUERY SCENE 2 LEVEL: hours

QUERY SCENE 3 LEVEL: day of month

QUERY SCENE 4 LEVEL: month

QUERY SCENE 5 LEVEL: year-2000

Purchase Information

ArtNr. 89453853: DALI CDC, DALI control device for automatic adjustment of tunable light luminaires

Additional Information and Equipment

DALI-Cockpit – free configuration tool from Lunatone for DALI systems
http://lunatone.at/en/downloads/Lunatone DALI-Cockpit.zip

Lunatone DALI products
http://www.lunatone.at/en/

Lunatone datasheets and manuals
http://lunatone.at/en/downloads/

Contact

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www.lunatone.com

Disclaimer

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

The compatibility with other devices must be tested in advance to the installation.