

# LED DALI CDC Circadian Daylight Control - User Manual



Item no.: LC-004-802

## 1. Product Description

The DALI CDC Circadian Daylight Control Device is a DALI Control Device for automatic Tc-adjustment of tunable white luminaires. The DALI CDC module must not be connected to the mains. It is supplied directly via the DALI signal line and simple installation due to DALI double-clamp connector.

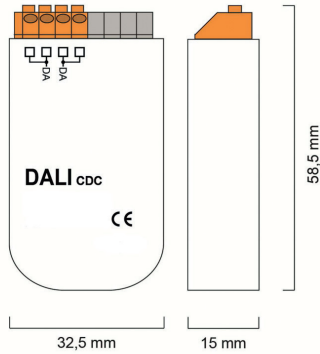
## 2. Specification

power supply	aus DALI-Bus
typ. current consumption	5mA
Input/Output	DALI
RTC	quarz based
max. wire cross-section	1,5 mm <sup>2</sup>
dimensions (L x W x H) in mm	59 x 33 x 15 mm
weight	10g

## 3. Description

1. Control device for DALI DT8 luminaires (color mode Tc)
2. biorythmic time-adjusted Tc reference value
3. DALI real time clock and daylight saving time (DST)
4. the clock and the Tc characteristics over time can be configured with the help of the DALI Cockpit software tool
5. The DALI CDC module must not be connected to the mains. It is supplied directly via the DALI signal line.
6. Simple installation due to DALI double-clamp connector

## 4. Dimensions



## 5. Instructions

### Addressing and Configuration

Via a DALI-USB interface the DALI-Cockpit software tool can communicate with the DALI CDC. The DALI-Cockpit software is a free 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. The Tc characteristic is based on the 24 set points (one for each hour). Between the set points the value is interpolated.

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

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

## 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.

## 6. Wiring Diagram

