

Dual Channel, 0-10V Tunable White Controller | Model: C-T2C-12-DS00



Specifications

- DC Input Voltage - 12-24VDC
- Current Consumption - 100mA
- Max Power Consumption - 2.4W
- DC Output Voltage - 0-10VDC x 2 Channels
- Operating Temperature - 4° to 140°F (-10° to 60°C)
- Dimensions - 3.25" x 1.5" x 0.875"
(82.5 x 38 x 22 mm)

Description

The **C-T2C-24-DS00** is a Bluetooth 2 Channel Controller that converts two 0-10V drivers into a Bluetooth Mesh Tunable White Node. It can be installed inside fixtures, j-boxes, inside its own UL listed enclosure or remoted. It controls two 0-10V drivers connected together.

Operation

The **Dual Channel Tunable White Controller** operates on 12VDC. Each of the two channels control independently a 0-10V driver. The two channels are used to mix different light sources for Tunable White applications. Once powered up, the device broadcasts its identification code waiting to be commissioned through the Bubblynet App.

The **Dual Channel Tunable White Controller** is a Bluetooth Mesh Qualified device. This means that it can be controlled and be part of any Bluetooth Mesh Network, independently of the brand or manufacturer of the additional devices or controls.

Features

- Simple to Install
- Converts any 0-10V Driver into a Wireless Device
- Programmable Dimming Curves, Soft ON/OFF
- For Tunable White Applications
- Does Not Require a Gateway

Certifications



Installation

The installation of the **Dual Channel Tunable White Controller** is very simple. The two wires for DC input are connected to a DC power supply and 2 + 2 wires for 0-10V output are connected to the 0-10V drivers. As soon as the Controller is powered on it will start broadcasting the non-provisioned advertising messages that will tell the provisioning app that a new device is ready to join. The provisioning app will connect to the new driver, configure security keys, addresses and other data so the new Controller can join the Mesh Network. After the new Controller joins the Mesh Network it is ready to be configured (publishing / subscribing data.)

Applications

The 0-10V **Dual Channel Tunable White Controller** is a wireless module that controls via Bluetooth 0-10V drivers. It transforms any 0-10V device into a smart wireless device and does not require the use of a gateway.

12-24VDC power needs to be supplied to the sensor from others, the auxiliary DC output of a BubblyNet Controller or a BubblyNet AC/DC Transformer, neither are included.

Connectivity

Devices are repeaters for other devices and should be installed within a certain maximum distance from each other.

Typical maximum distance:

<u>Outdoor (line of sight):</u>	200ft
<u>Indoor (through building material):</u>	
Glass:	100ft
Drywall:	70ft
Cinderblock:	60ft
Brick:	50ft
Concrete + rebar	0ft

Devices with external antenna should have the antenna outside any metal box and away from metal surfaces as metal reduces connectivity.

For design purposes a 60ft. maximum distance is appropriate for most installations.