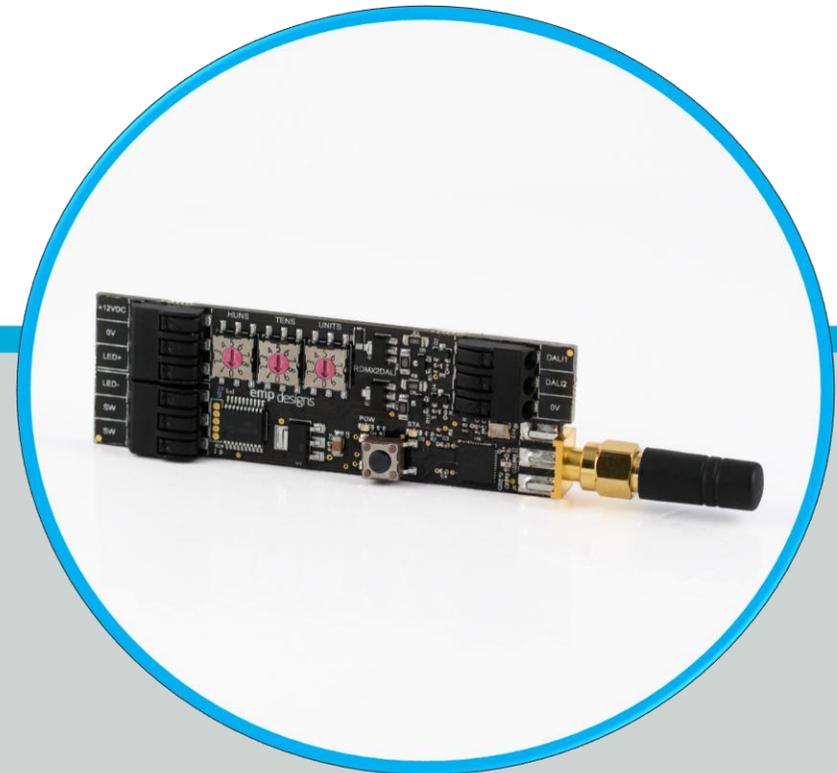
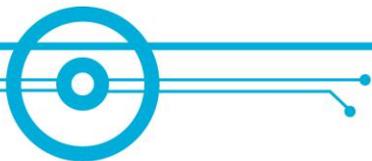


# RDMX 2 Dali Controller User Guide



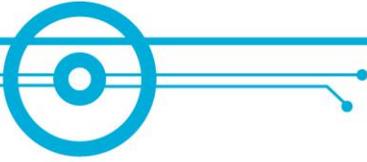
**DATE**  
12/11/25

**PREPARED BY**  
Kate Stanton



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## IMPORTANT SAFETY NOTICE

Read this user guide in full before you attempt to use the RDMX 2 Dali.

On receipt of the RDMX 2 Dali, check no damage has occurred whilst in transit. If you suspect any damage, do not use the controller until you have discussed the issue with EMP Designs Ltd.

If you do not fully understand anything contained in the user guide contact the manufacturer by email before use ([info@empdesigns.co.uk](mailto:info@empdesigns.co.uk)).

Ensure that all electrical connections and interconnections between external LED's are properly made in accordance with the manufacturers' instructions and no short circuits between channels are made.

All external wiring remains the responsibility of the user.

Whilst EMP Designs Ltd. has made every effort to ensure the RDMX 2 Dali is safe to use and meets the client's specification, the client, prior to each application, should always complete on-site testing.

All external connections should only be made while the power is turned off.

Do not attempt to disassemble the controller in any way. Please return the controller to EMP Designs Ltd. if any servicing is required.

Damage may occur if the controller outputs are continually overloaded or short circuited.

Damage may occur if the power in polarity is incorrect.

Ensure a fuse is fitted to the input supply of the controller.

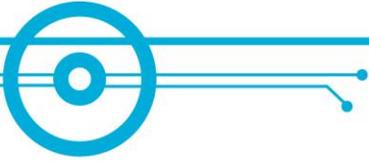
Avoid places subject to extremely high temperatures or humidity.

EMP Designs Ltd  
RDMX 2 Dali User Guide 12/11/2025



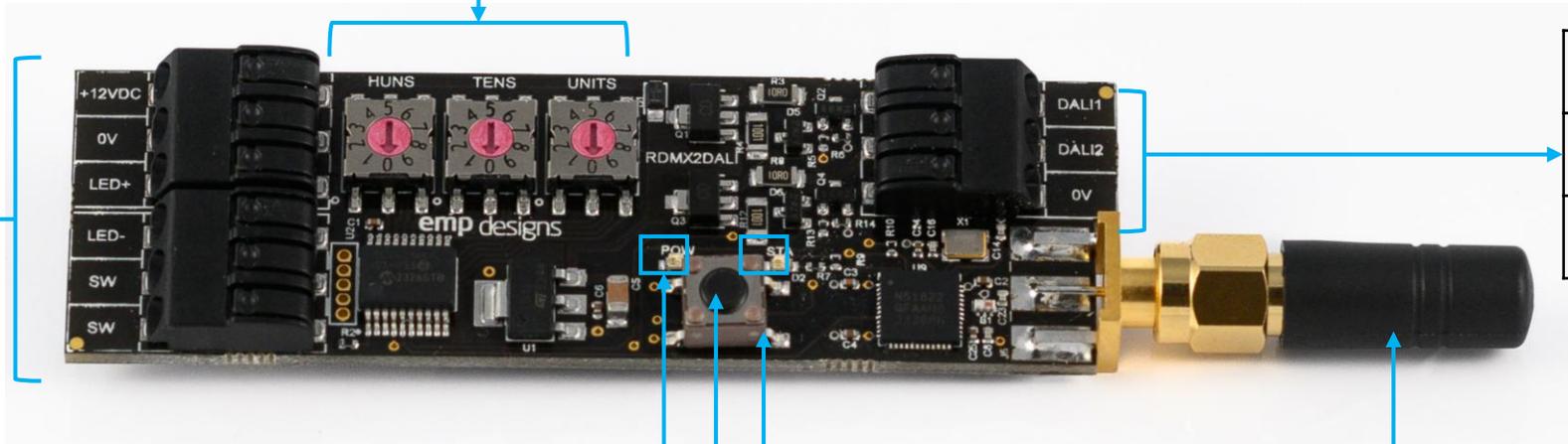
## Power Specification

Specification	
Max input voltage	15V DC
Voltage Input	5-15V



## User Controls

+12VDC
0V
LED+
LED-
SW
SW



Manual Address Dials

DALI1
DALI2
0V

Antenna

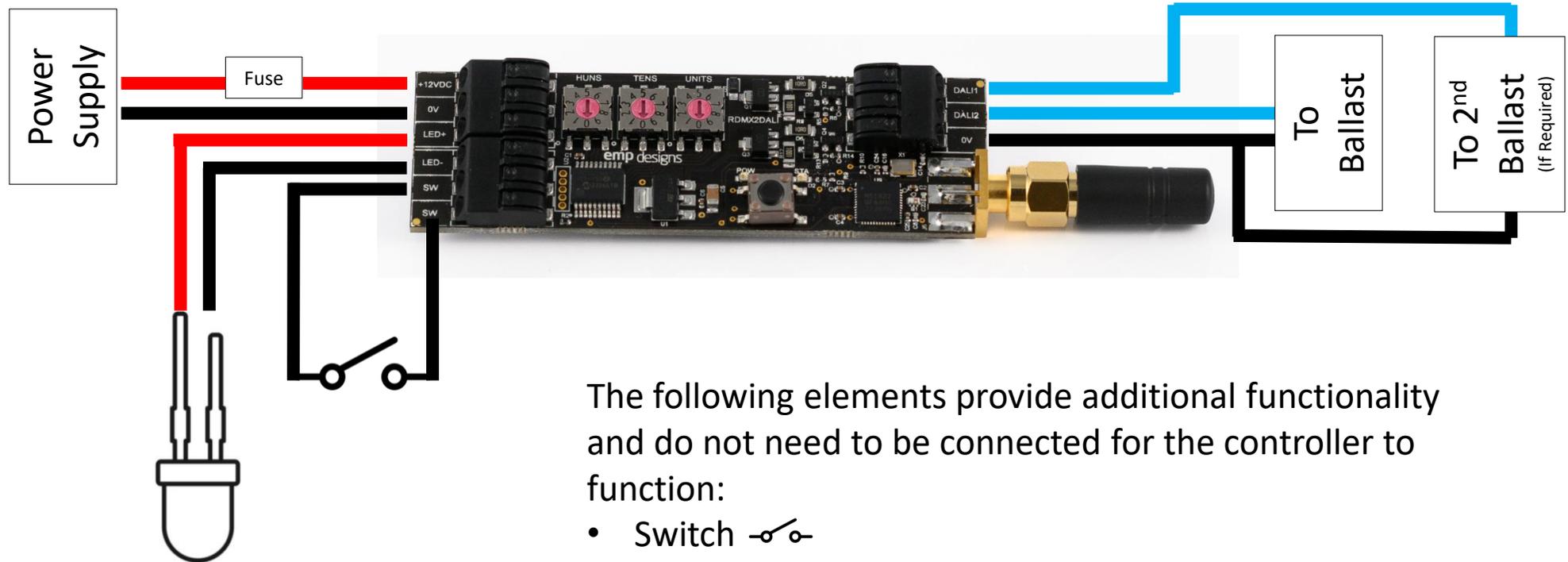
Blue Synchronisation Indicator

De-Sync Switch

Red Power On Indicator LED

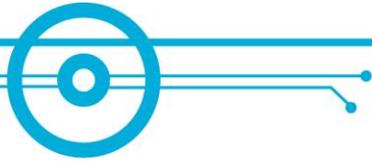


## Wiring Diagram



The following elements provide additional functionality and do not need to be connected for the controller to function:

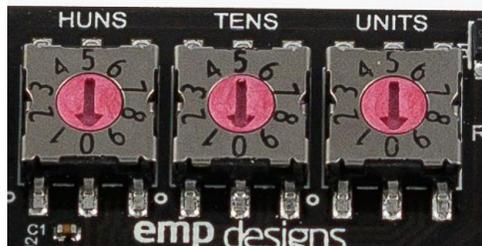
- Switch 
- LED 
- 2<sup>nd</sup> Ballast



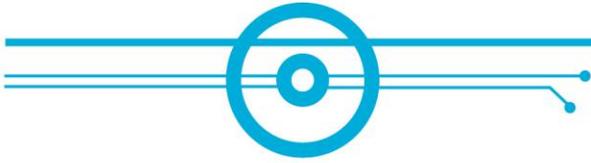
## Using the RDMX 2 Dali

**WARNING:** The RDMX 2 Dali has been designed without a casing to maintain its compact size. As a result, its components are exposed and may be damaged, or the board may short circuit if it comes into contact with loose wires or metal objects. Handle with care and ensure the device is used in a clean, controlled environment to prevent potential issues

1. Connect the RDMX 2 Dali in accordance with the wiring diagram on page 6 and then switch the power on.
2. Set the address on RDMX 2 Dali device to match the address of your compatible transmitter.

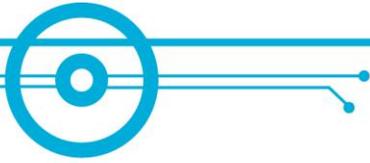


Using a small flat head screwdriver, turn the dial to match the address of your compatible transmitter. In the photo the dials are set to 000.



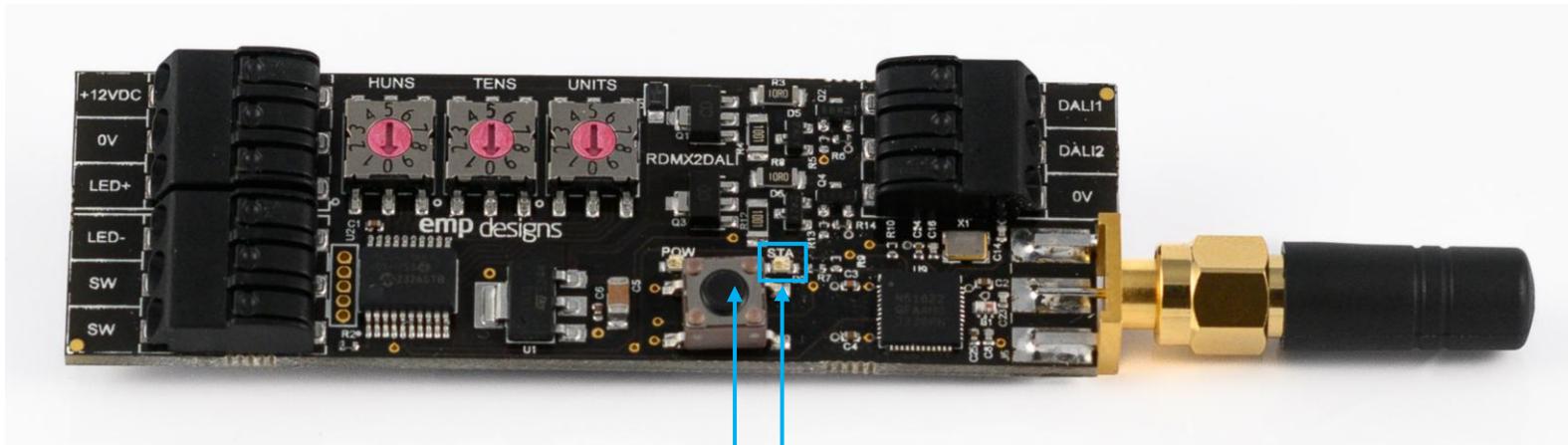
## Using the RDMX 2 Dali

3. Synchronise the RDMX to Dali device to a compatible transmitter. Once synchronised, the blue Synchronisation LED will stop flash and remain on.
4. Connect power to the ballast.
5. It will now be possible to control the ballast via the compatible controller.



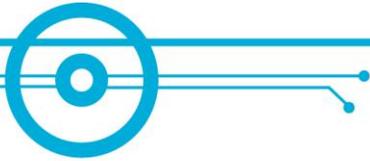
## De-synchronising the RDMX 2 Dali Controller

6. Press and hold the de-sync button until the status LED is off.



Blue Synchronisation Indicator

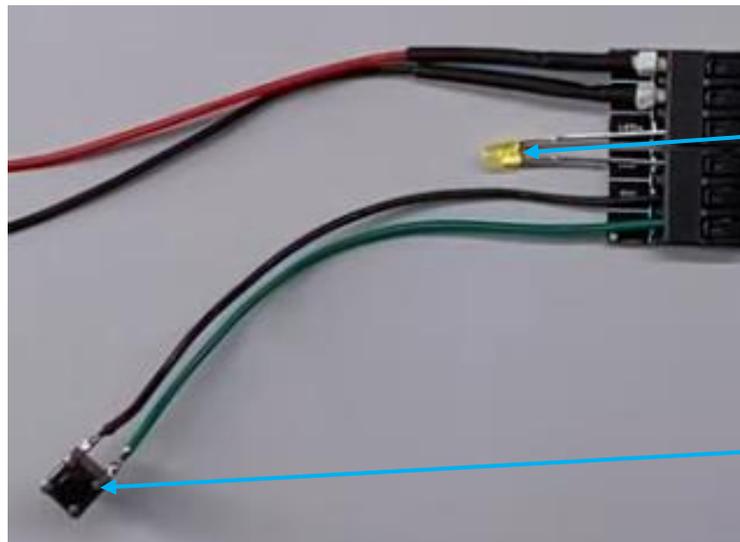
De-Sync Switch



## Setting up extensions for the Sync Status and Sync Switch

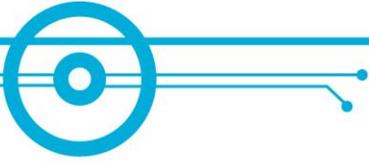
7. If you need to be able to de-synchronise from a separate location and if you need to be able to see the status of the synchronisation from a different location, it is possible to connect extensions into the RDMX 2 Dali controller as show in the photo below.

Please note that any LED connected should have an operating voltage no higher that 3V and make sure the LED is connected the correct way round in the terminal block.



This LED mirrors the behavior of the status LED, allowing it to be visible even if the controller is installed in a hidden location.

Pressing this switch will de-synchronize the device from the RDMX to DALI Controller.

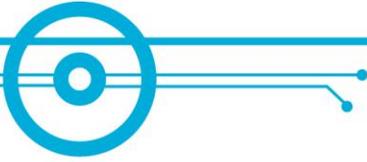


## YouTube Support

We have a YouTube channel where there is a video demonstrating how to use the RDMX 2 Dali. The QR below will take you directly to the RDMX 2 Dali Instructional video.

Alternatively, visit our YouTube channel, <https://www.youtube.com/watch?v=2YA10D37z-l>





## Get in Touch

If you require further support, don't hesitate to get touch.

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