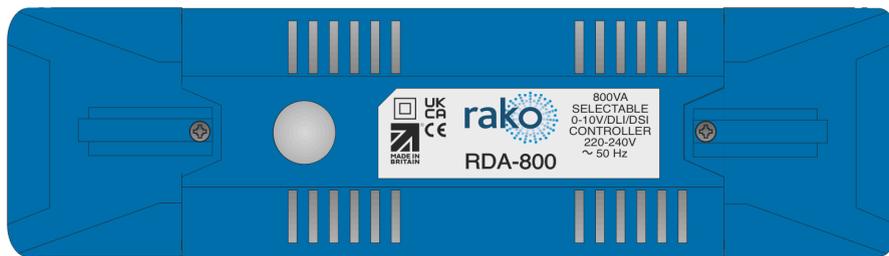




Instruction Manual

RDA-800

0-10V/DSI/DLI Dimmer



2024

Version 2.0.1



For more information relating to the RDA-800, see the [Wireless Module Application Sheet](#), [Wireless RAK Application Sheet](#), and [Wireless Device LED Diagnostics](#).

For programming a wireless system: [Wireless Module Setup Guide](#)

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What is the RDA-800?

The RDA-800 is a multifunctional dimming unit designed for controlling 0-10V, DALI, or DSI drivers.

Drivers can be controlled on the mains input using the built in 800VA relay.

Loadings

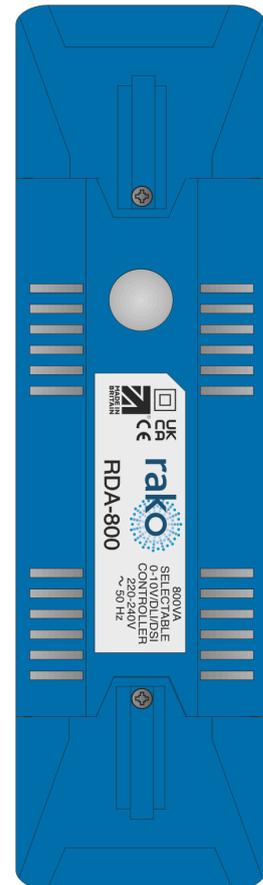
Relay Output	Max number of drivers
800VA	DALI - 64 DSI - 64 0-10V - 25

Installation

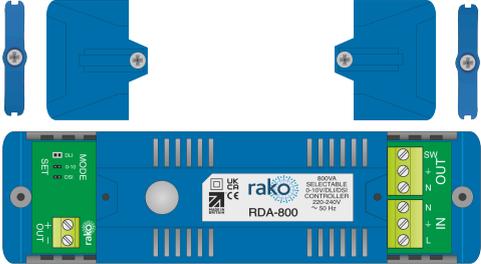
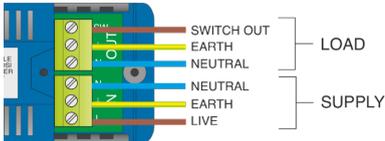
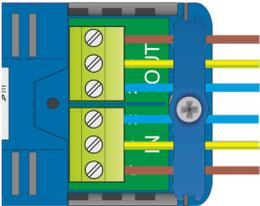
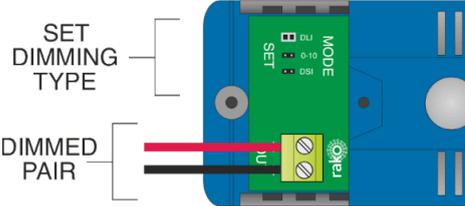
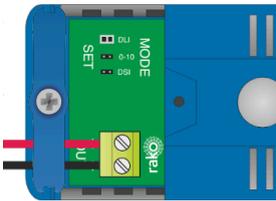
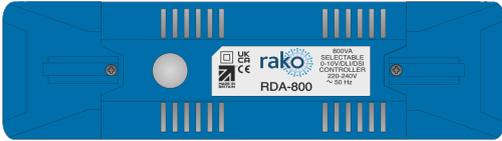
⚠ WARNING

Installation should only be carried out by a competent electrician.

- RDA-800 modules should be mounted in areas that are adequately ventilated, dry, and outside of any enclosed metal casings that may interfere with the wireless signal.
- Modules should be mounted vertically, with the terminals at the bottom, or horizontally.
- While the modules are designed to be maintenance-free, they should be mounted in an accessible location should investigation or re-addressing of the units be necessary.



- Ensure that the cable clamps are fitted tightly to secure the cables.

STEP 1		Remove the cover and cable clamp
STEP 2		Insert the supply IN conductors as well as the load OUT conductors.
STEP 3		Replace the cable clamp, ensuring the cables fit securely
STEP 4		Insert the control pair conductors and set the 2-pin jumper according to the load requirements.
STEP 5		Replace the cable clamp, ensuring the cables fit securely.
STEP 6:		Replace the covers

Initial checks

- When power is initially connected to the module, the load should power up to full brightness.

- The clear button can be used as a manual on/off switch to test the circuit.
- The internal LED behind the clear button will flicker when the module receives any Rako wireless message and is a useful diagnostic indicator. The LED feedback becomes inactive after 20 minutes to avoid a nuisance light spill but can be re-activated by pressing the clear button.

Programming the RDA-800

Once the RDA-800 has powered up and has been tested working with the setup button, the device is ready to be programmed. For instructions on how to program the RDA-800, see the [Wireless Module Setup Guide](#).

Thank you for choosing Rako Controls; we hope that you are pleased with your system. Should you require further assistance, please contact us via our website, www.rakocontrols.com, or by calling our customer support helpline on 01634 226666.



Appendix 1: LED Diagnostics

Wireless Range	LED Pulses	Description
Good wireless reception		When the unit is receiving successfully, there will be four rapid pulses on the LED when any wireless message is sent.
Bad wireless reception		When the unit is out of range, there will be intermittent pulses on the LED when any wireless message is sent. NB It is recommended to install a wireless repeater (WRB-100) if you are experiencing intermittent wireless range.

Should the module not respond to any of the above, check the supply voltage.