



# Wireless Setup

## Programming from an RCM



2024  
Version 1.1.0



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

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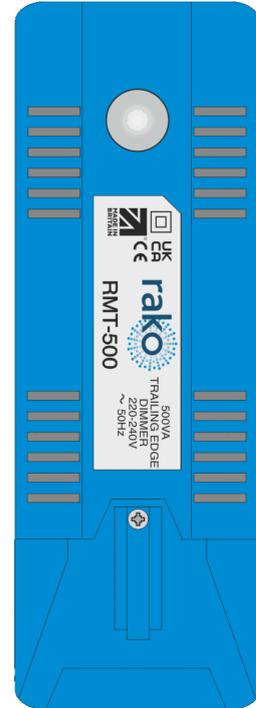
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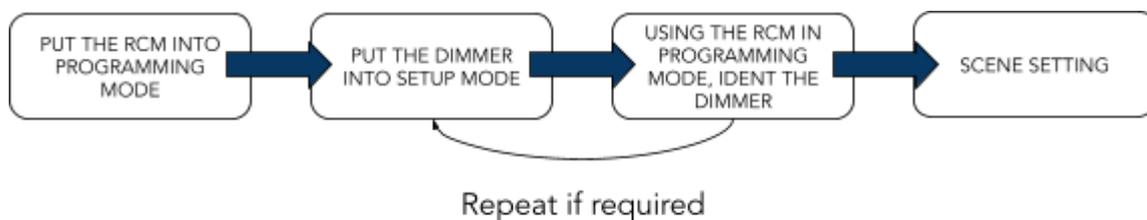


## 1 Overview

When it is not possible to program using Rasoft Pro, specific wireless devices can be paired using an RCM.

### 1.1 Setup order

The process of programming from an RCM is in four stages which are explained in the guide.



Programming from an RCM involves putting it into programming Mode and sending setup commands to a compatible wireless device. The devices that can be paired with the RCM are:

## 1.2 Current compatible products

- RMT-500
- RMT-PILL
- RMT-1200
- RML-500
- RML-1200
- RDA-800
- RMS-800
- RACUB
- RACUB2L
- RLED75CV1
- RLED150CV1
- RLED45CC1

## 1.3 Legacy compatible products

- RDL-250
- RDL-500
- RDT-500
- RDT-PILL
- RDS-800

### **NB**

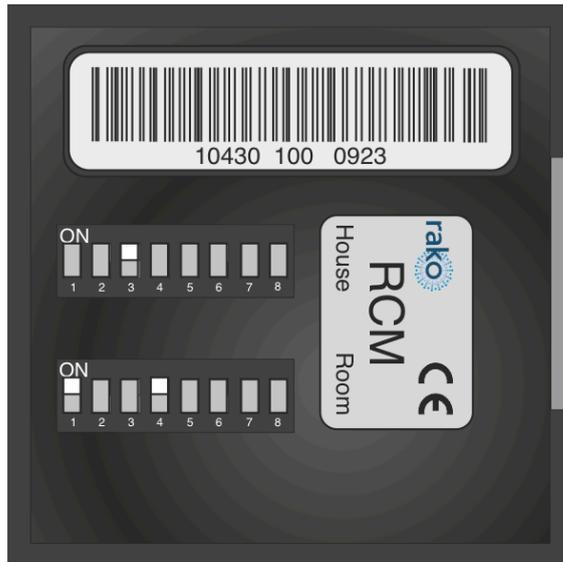
Programming from an RCM is intended for basic setup; Rasoft Pro is required if more than basic programming is required.

## 2 Setting dip switches on the RCM

Before Wireless modules can be paired with the RCM, a House and Room number must be set on the RCM.

The RCM module uses binary values for the House and Room numbers; an example can be seen below:

Dipswitch	Value
1	1
2	2
3	4
4	8
5	16
6	32
7	64
8	128

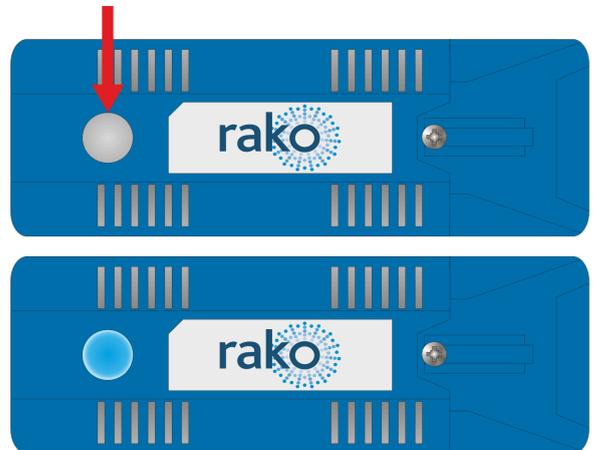


*House 4, Room 9*

If the modules look like the above but there are no dip-switches fitted, then this is an RNC and cannot be addressed without Rasoft Pro and an NFC programming tool. See Section 5, "[Setting up an NFC device](#)" in the Wireless Setup Guide for details.

### 3 Putting a Dimmer into setup Mode (button)

- Press and hold the button on the module until the internal LED begins to flash periodically.
- When the button is released, it should continue to flash.
- The device is ready to be programmed via the RCM.

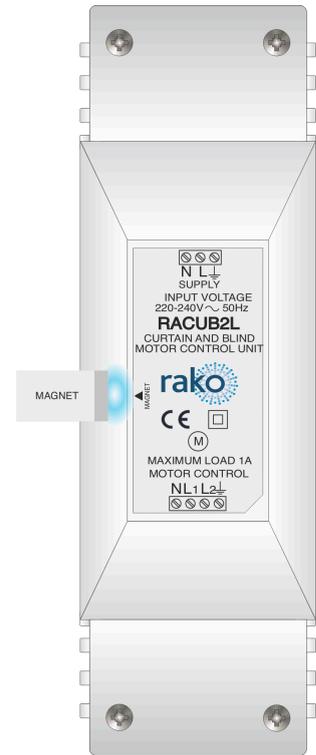


#### NB

When a module is re-addressed from default (House: 1 Room: 4) to any other House and Room address, the power-up Mode will change from "100%" to "Off." This is only the case with the modules with setup buttons.

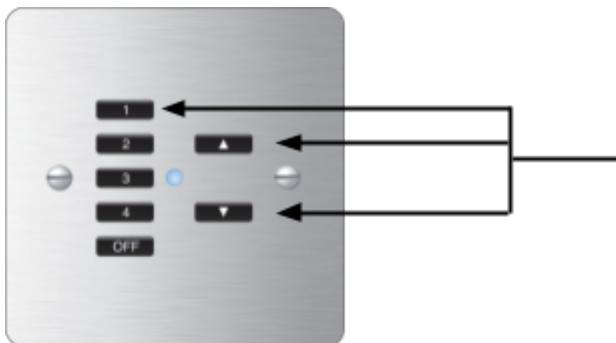
## 4 Putting a Dimmer into setup Mode (magnet)

- To put the Dimmer in setup Mode, hold a magnet steady against the side of the module next to the location of its internal LED.
- When the magnet is in the correct location, the LED will illuminate. Keep the magnet in position for a few seconds until the LED blinks periodically, showing the device is now in setup Mode.
- Remove the magnet, and the LED should continue to blink.



## 5 Pairing a Dimmer with an RCM

- Press and hold the buttons on the RCM until the internal LED begins to flash periodically.
- When the buttons are released, the LED should continue to flash.

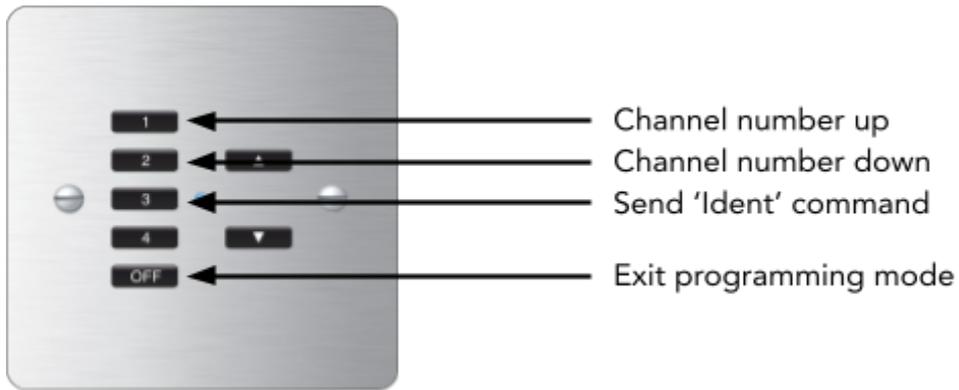


Hold down  
'1' + 'Raise'  
+ 'Lower'  
until the LED  
in the  
Centre blinks.

- Now that the RCM LED is flashing, it is in programming Mode. The RCM will need to be set to the Channel to which the Dimmer will be programmed. Use buttons 1 and 2 to go up and down Channels. The Dimmer can be programmed on Channel 1 up to Channel 15.

### NB

Upon the RCM entering programming mode, the Channel will be set to 0, it is essential to increment to 1 onward to pair the Dimmer.



Button	Function
1	Step Up Channel
2	Step Down Channel
3	Ident
4	Save Scene (only used in Scene setting Mode)
Off	Exit programming Mode
Raise	Increase brightness (only used in Scene setting Mode)
Lower	Decrease brightness (only used in Scene setting Mode)

- When the RCM enters programming Mode, the Channel begins at 0. There are a total of 15 Channels to allocate a device to.
- Select a Channel to allocate to the device, press '1' to step up to Channel 1, and repeat as necessary.
- Once the Channel number has been reached, press '3' to send an 'Ident' command, this will pair the Device with the selected Channel.
- Once the 'Ident' has been received, the blue LED on the button of the device will stop blinking.

## 6 Setting Scenes

All Dimmers must be paired onto their own Channel to set Scenes, if this has not yet been done, refer to the first half of the guide.

### 6.1 What are Scenes?

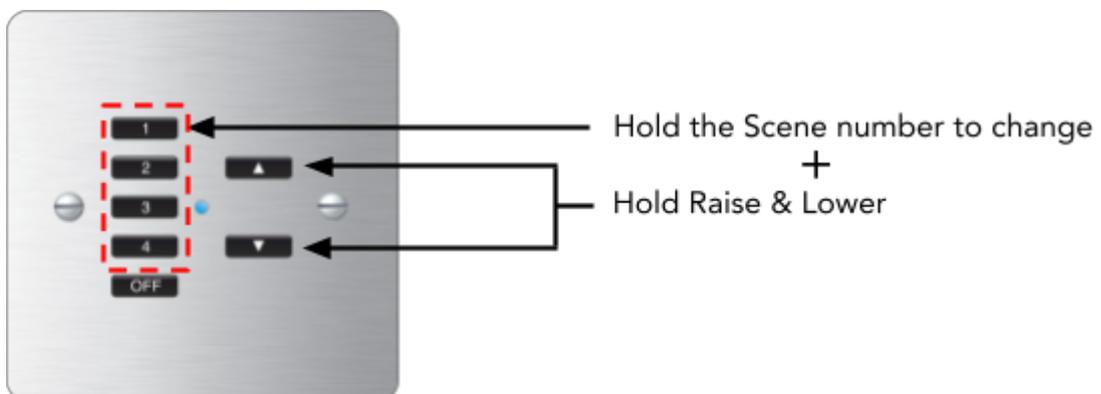
A Scene is a percentage of brightness which can be stored in the memory of a Dimmer, newer Dimmers can store up to 16 Scenes. Setting Scenes on an RCM is only recommended when using Rasoft Pro with a programming tool is not possible.

### 6.2 Setting Scenes using an RCM

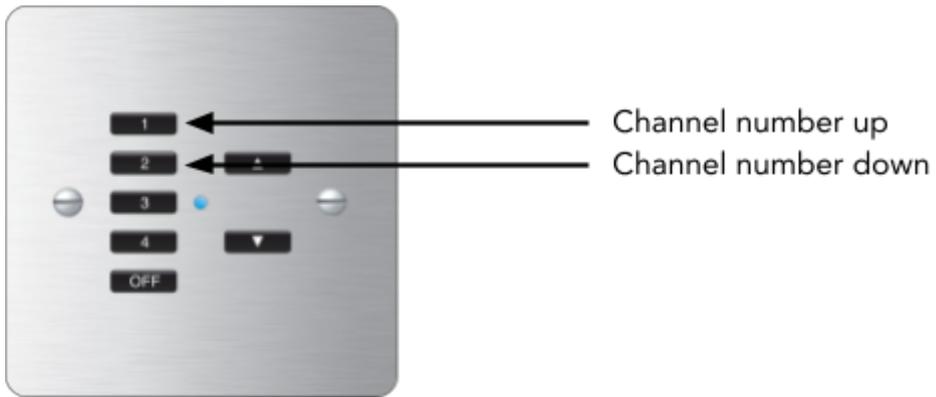


Button	Function
1	Step Up Channel
2	Step Down Channel
3	Ident (not used in Scene setting)
4	Save Scene
Off	Exit programming Mode
Raise	Raise brightness
Lower	Lower brightness

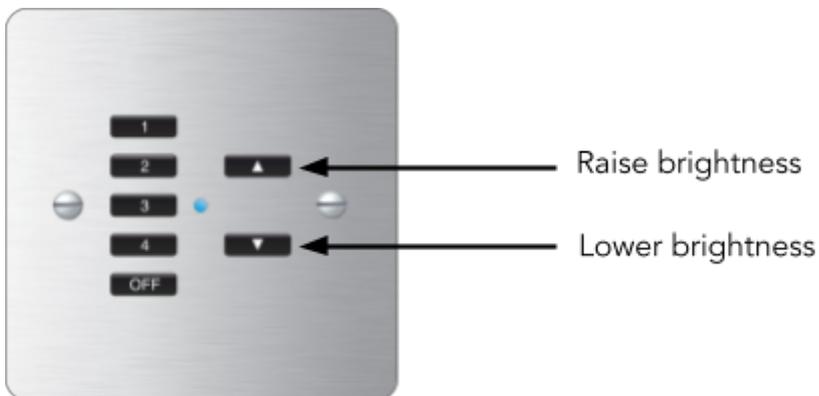
- Press and hold the Scene number to change along with the Raise and Lower buttons for 4-5 seconds until the LED starts to blink, release the buttons, the LED should continue to blink.



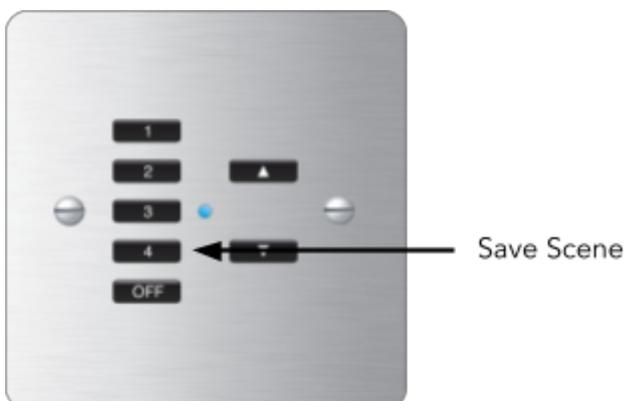
- With the LED blinking, use button 1 to step up to the Channel with the lighting circuit which requires Scene setting, the physical light will flash in the Room when the RCM is set to the matching Channel. Button 2 is used to step down a Channel.



- Once the required Channel has been reached, use the Raise and Lower buttons to adjust the lighting levels.



- After the lighting level for the Channel has been set, step up to the next Channel using button 1 or button 2 to step down a Channel, and repeat the previous step.
- Once all lighting levels have been adjusted, Press button 4 to save the Scene.



- Press 'OFF' to exit Scene setting mode.
- Repeat the steps if additional Scenes need to be set.

## 7 Advanced Features

Advanced features can be unlocked by pressing specific button combinations, including but not limited to:

- Channel Mode
- Whole House Off
- Room Offset

See the link below for further details:

[Advanced control panel features](#)

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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](http://www.rakocontrols.com), or by calling our customer support helpline on 01634 226666.

