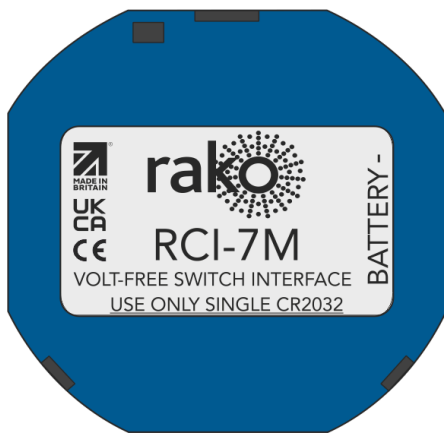




Instruction Manual

RCI-7M

Volt-Free Switch Interface



2024

Version 2.0.0



For more information relating to RCI-7M see the [Wireless Module Application Sheet](#), [Wireless RAK Application Sheet](#), and [Wireless Device LED Diagnostics](#).

For programming a Wireless system, including the device in this manual: [Wireless Module Programming Guide](#)

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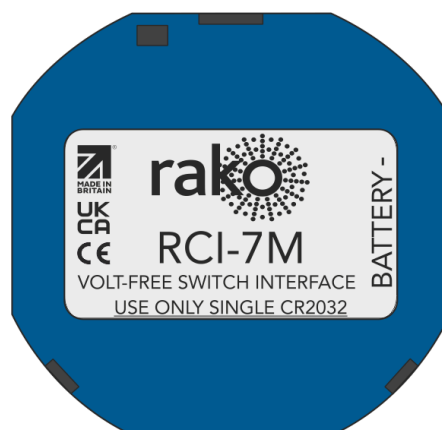
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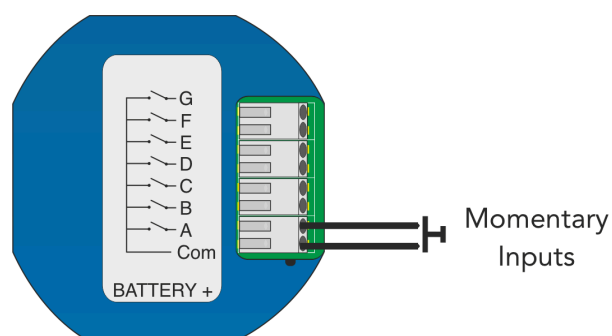
1 What is the RCI-7M?

The RCI-7M is a Wireless battery-powered switching interface which takes up to 7 momentary inputs from third-party switches and is programmed to transmit Rako Wireless commands.

Designed to fit in a standard UK backbox, the RCI-7M is 48x48x9mm.

2 Inputs

The RCI-7M has up to 7 momentary inputs, the example shows a single input, when the switch position is changed between A and Com, a Rako command can be programmed to be transmitted by the RCI-7M.



3 Installation Instructions

The RCI-7M module is designed to fit in a back box locally to the connected switch inputs. Excessive cable lengths can pick up noise which can cause intermittent operation or spurious triggering. The recommended maximum cable length is 300mm.

NB

This product can only be programmed with RASOFT Pro software with a Rako HUB or RAMPI.

3.1 Battery

The RCI-7M requires a single CR2032 battery for power.

⚠ WARNING

Lithium batteries may explode if handled incorrectly. Always dispose of used batteries under the manufacturer's recommendations.

3.2 Enclosures

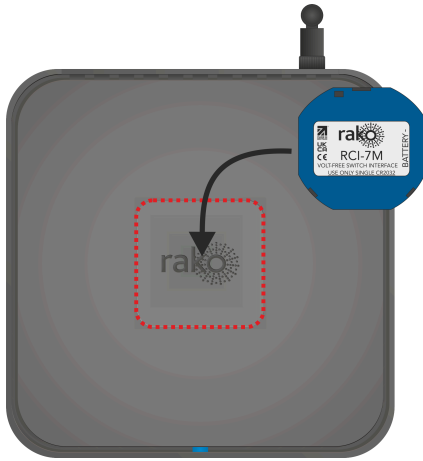
The RCI-7M is designed to fit into a UK backbox. As the unit transmits a Wireless message to remote receivers, the aerial must not be surrounded by metalwork, which could be the case with a metal backbox and metal cover plate combination. This will restrict the transmitting range considerably. It is highly recommended to feed the aerial out of any backbox giving it a better transmission range.

4 Addressing the RCI-7M (HUB)

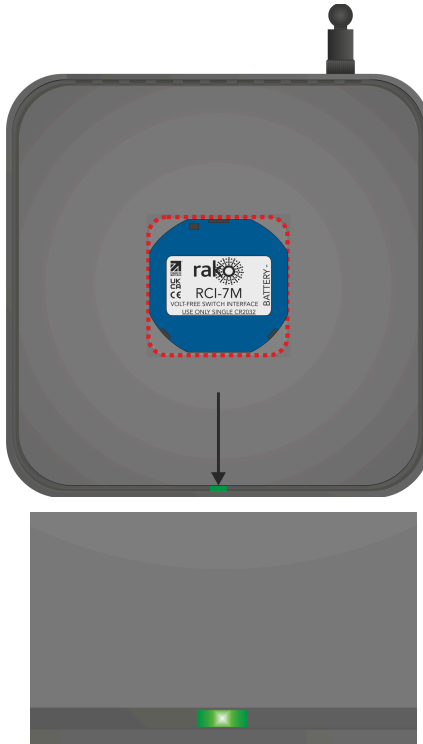
The following steps assume a Project File has been created, if that has not yet been done, see the [Wireless Module Programming Guide](#).

The HUB has built-in NFC programming functionality. If the HUB has not yet been set up, see [A1.2 HUB](#).

- To begin the setup process, ensure you are connected to the HUB in the "Communication Devices" in Rasoft Pro, and that the HUB has been configured.
- Place the RCI-7M on the top, middle section of the HUB.



- When the RCI-7M is correctly positioned, a green LED will show on the HUB, and a window will pop-up in Rasoft Pro.



- Give the RCI-7M a suitable name so that it is identifiable in the software.
- Select the local Room for the RCI-7M.

NB

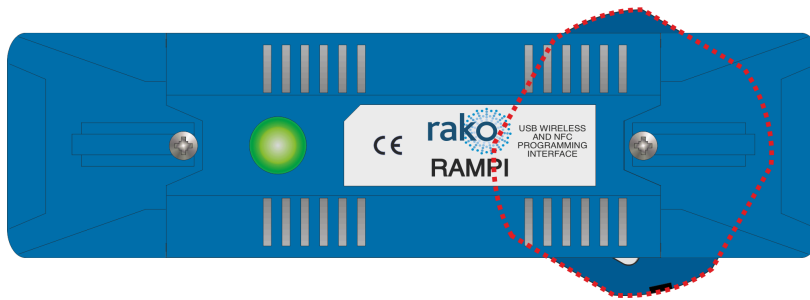
It is important to set the Room at this stage. If "Assign later" is selected, then the NFC Device will not be programmed and will be added as a virtual Device

- Select Finish on the next page to complete the setup. The HUB will need to upload to the NFC Device at this stage.

5 Addressing the RCI-7M (RAMPI)

Unlike the RCM, the RCI-7M must be programmed using Rasoft Pro software, a RAMPI or a HUB is required to do this. First, ensure that the RAMPI is connected to Rasoft Pro in the communication window (see [A1.1 RAMPI](#)).

- To begin the setup process, place the RAMPI on the NFC Device and ensure no metallic cover plates are fixed to the Device.

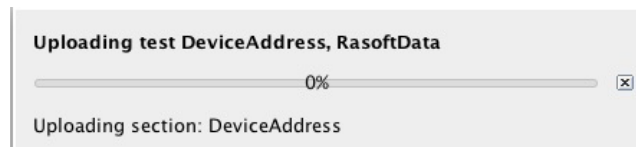


- When the Device is correctly positioned, a green LED will flash in the RAMPI, and a window will pop up in Rasoft Pro.
- Give the Device a suitable name so that it is identifiable in the software.
- Select the local Room for the Device.

NB

It is important to set the Room at this stage. If "Assign later" is selected, then the NFC Device will not be programmed and will be added as a virtual Device

- Select Finish on the next page to complete the setup. The RAMPI will need to upload to the NFC Device at this stage.

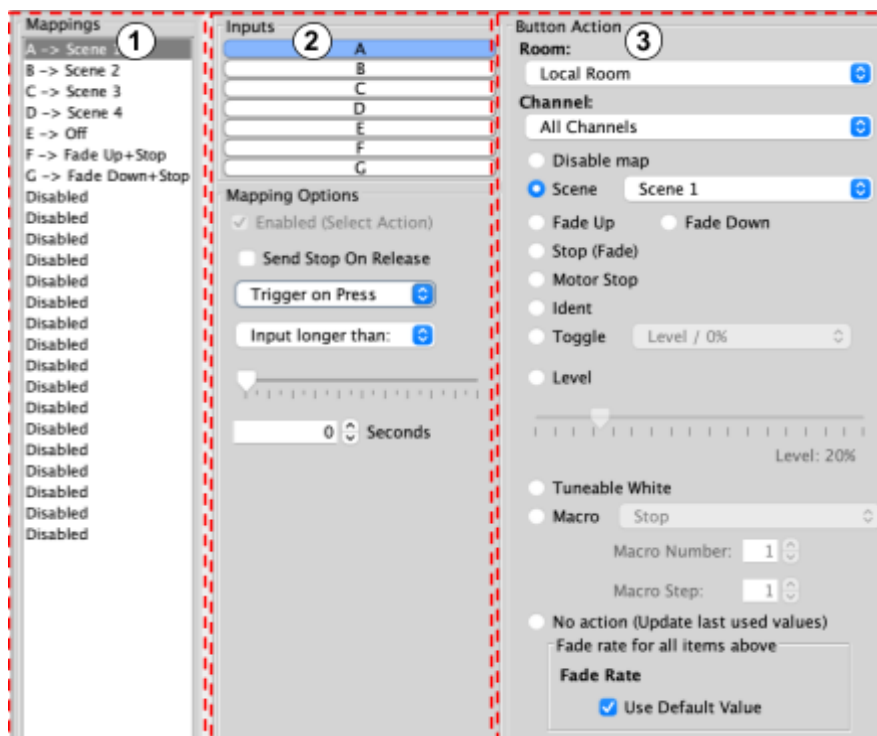
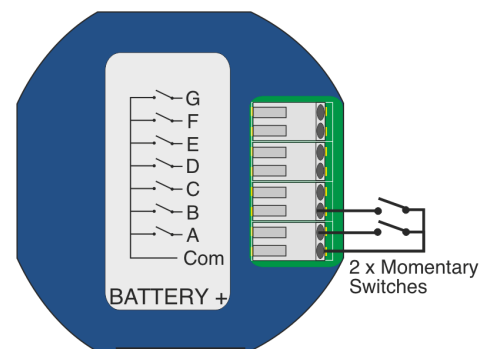
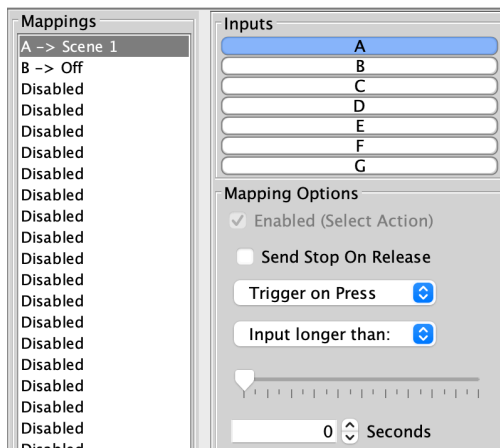


- Once the upload is complete, the RCI-7M can be configured.

6 Configuring the RCI-7M

The RCI-7M is an interface for momentary switches, there are 7 inputs which can be mapped to Trigger a command "on press" and "on release".

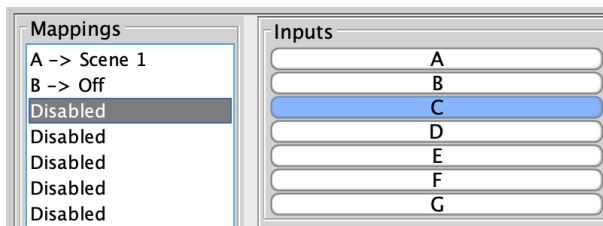
The input mapping screen for the RCI-7M can be accessed by selecting it in the "Device List"; this will open the "Device Editor" for the RCI-7M.



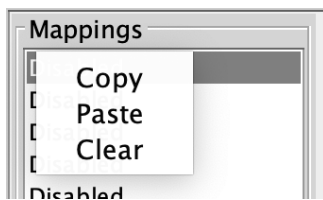
6.1 The Mapping Section

All programmed inputs for the Device must first have a mapping. The purpose of a mapping is to program an input to perform a specific command. Each input has its own letter to represent its input; the RCI-7M has up to 7 inputs.

New mappings can be created by selecting a disabled field and selecting the corresponding input letter in the next column.



Active mappings can be copied or pasted into disabled mappings; this is typically used when re-using similar functions of an existing mapping to save time such as a toggle function.



Mapping right-click options

6.2 Inputs

The inputs for the mappings are selected in the Inputs section, as well as additional input options:

Function	Description
Send Stop On Release	When the switch is released, a "Stop" command will be triggered.
Trigger on press	Trigger the output command when the switch is pressed.
Trigger on release	Trigger the output command when the switch is released.

6.3 Button action

The output actions of the button inputs are set up in the button action section, the following options are available

Function	Description
Room	The Room number of the output command.
Channel	The Channel number of the output command can be All Channels or a single Channel.
Disable map	When enabled, the button input will have no output command.
Scene	If a Scene is being triggered, select a Scene between 1-16.
Fade-Up/Fade-Down	Commonly used to manually dim lighting up and down, as well as the Opening/Closing of Blinds. <u>NB</u> "Send Stop on Release" should also be checked when using this option.
Motor Stop	Used to stop 3rd party motors that are configured within the HUB.
Ident	This option is not recommended, as the command will make a load flash momentarily and provides no practical function for daily use.
Toggle	The Toggle function will alternate between two commands, either a Level command and Off, or a Scene command and Off. <u>NB</u> Do not map more than one Toggle to a single button on the inputs; this will result in sporadic switching due to toggles getting out of sync.

Level	Sets the lighting Level to a percentage of brightness between 0-100%.
Tunable White	Set the temperature output.
Macro	<p>Trigger an internal Macro on the Device; this is not the same as triggering a Macro on a HUB.</p> <p><u>NB</u> Macros can be created on the "Macro" tab above the button configuration.</p>

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.

