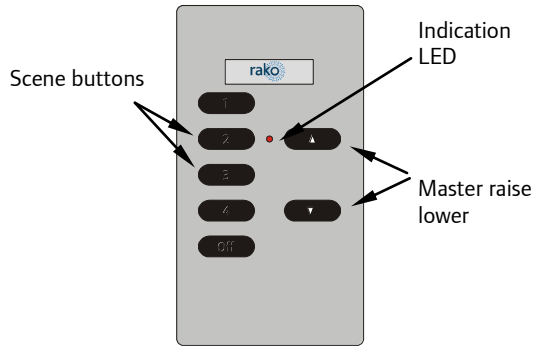# Rako RAH07 Hand-Held Controllers, Programming and Operating Instructions

General

The Rako RAH07 controllers are designed for convenient hand-held control of a Rako lighting system. They have all the operating and programming functions available associated with Rako RCP07 control panels and can be used either on their own or in conjunction with the wall panels.
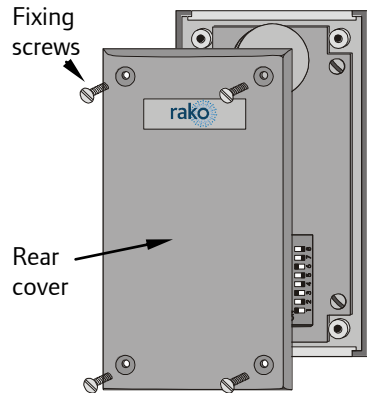
Indication LED

Scene buttons

Master raise lower

Fig. 1
Front View

Fixing screws
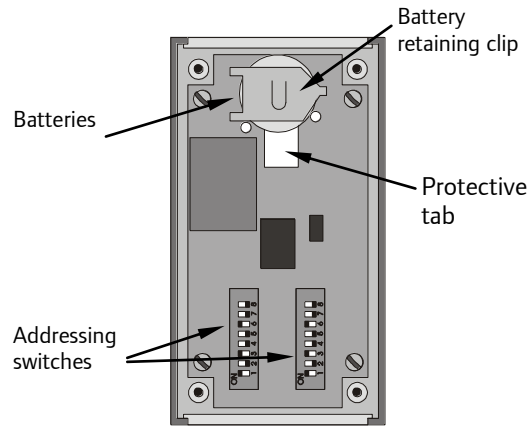
Rear cover

Fig.2
Rear View

Important

This section be read and followed before using your Rako handset.

Checking for correct operation

Rako hand-held transmitters are supplied with a pullout tab to prevent inadvertent operation and battery deterioration during transit. To remove this, first remove the rear cover by removing the four fixing screws and pull the tab out. Care should be taken not to touch or otherwise damage any of the other electronic components. The Rako hand-held should now be operational. To check this press one of the front buttons and the indicating LED should illuminate briefly for a single flash. If the LED does not flash or it flashes repeatedly for a short burst (low battery warning) then you should contact Rako controls on the number given below.

Battery retaining clip

Batteries

Protective tab

Addressing switches

Fig.3
Rear View with cover removed

Addressing

Before using a Rako hand-held the address switches on the rear need to be set to an appropriate House and Room address. Setting an address is the way in which interference between other R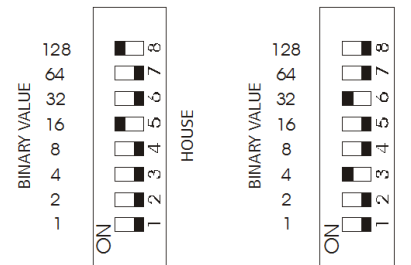ako systems, either with other rooms within your house or neighbouring houses is avoided. It should be remembered that with a booster unit a Rako transmitter may have a range of over 100m.
Your Rako control panel comes set with a default address of House 1 Room 4 and whilst the unit will function with this address it is strongly advised to select your own house address and logical room addresses. Once set, any receiver modules need to 'learn' the address of the control panel/panels that they need to respond to. To address a receiver module see the module's instruction manual.

Setting the address switches.

Each Rako transmitter has two, 8 way banks of switches for setting its address. The two sets of switches allow the user to choose from 256 house addresses and 256 room addresses. To set the address, remove the rear cover whereupon the banks of switches will be now become visible. To set an address, use a small terminal screwdriver or similar device and carefully move some of the switches into the 'ON' position. Addressing uses binary encoding and the value of the switches is shown below.

Note: Any control panels set with the same address will act as two or multi way controls.

House address = 128+16=144

Room address = 32+4=36.

Fig 5.
Addressing Switches

Battery replacement

Rako hand-helds are powered by batteries. The designed battery life is better than 3 years (based on 30 button presses daily) but the batteries will eventually need replacing. In normal use the Led on the front panel illuminates momentarily when a button is pressed to indicate that a (radio) transmission has been made. When the batteries are approaching the end of their useful life the Led will continue to blink after a button has been pressed. When this starts to happen the batteries should be replaced as soon as possible.

Always use two CR2016

To replace the batteries remove the rear cover and carefully slide out the batteries. Replace with new batteries ensuring that the positive (+) terminal makes contact with the battery clip and the negative (-) terminal with the pad on the circuit board.
To ensure reliable operation always ensure that battery contacts and battery surfaces are kept clean of any grease, moisture or other contamination.

Warning
Lithium batteries may explode if handled incorrectly. Always dispose of used batteries in accordance with manufacturer's recommendations.
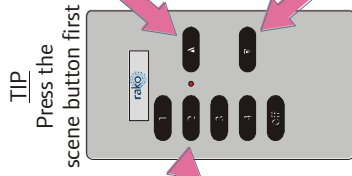
General

Rako thanks you for having purchased a Rako product and hopes that you are pleased with your system. Should for any reason you need to contact us please contact us via our website www.rakocontrols.com or by phoning our customer help line on 01634 226666.
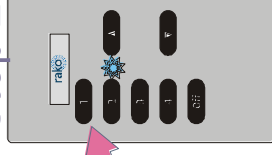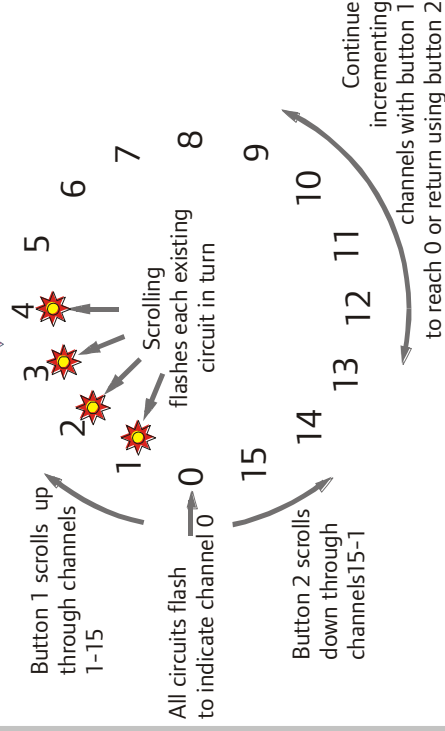
Programming a Scene

Step 2

LED starts to flash after 5 seconds, panel is now in programming mode. Use buttons 1 & 2 to scroll through channels one at a time.

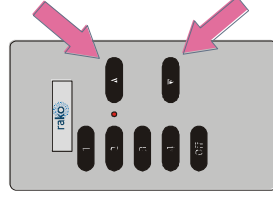When in programming mode buttons have the following functions

Button	Action
1	Scroll up and ident
2	Scroll down and ident
3	Ident only
4	Save changes
Off	Exit programming

See details for scrolling

Button 1 scrolls up through channels 1-15

All circuits flash to indicate channel 0

Button 2 scrolls down through channels 15-1

Scrolling flashes each existing circuit in turn

Continue incrementing channels with button 1 to reach 0 or return using button 2

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Step 1

TIP
Press the scene button first

Chose the scene to be re-programmed.
Put controller into programming mode by pressing and holding the selected scene button and both raise and lower buttons together
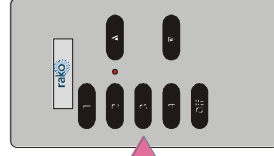
Step 3

As each circuit flashes in turn, use the raise and lower buttons to adjust lighting to the desired levels
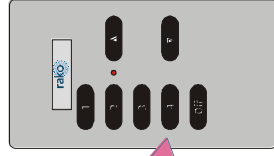
Tip

If at any point it is not clear which is the current circuit address button 3 will flash that circuit without scrolling on.

Step 4

Once levels are set correctly for the chosen scene. Save any changes by pressing button 4. Circuits will all flash to confirm.

Step 5

Press Off button to exit controller from programming mode.
To re-program another scene repeat process from Step 1