

WK-MOD Instruction Manual

For programming information: [Wireless Module Programming Guide](#) / [Wireless RAK Programming guide](#)



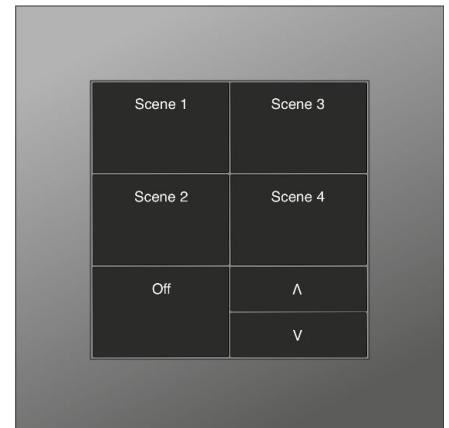
For general overview: [Wireless Module Application Sheet](#) / [Wireless RAK Application Sheet](#)

What is the WK-MOD?

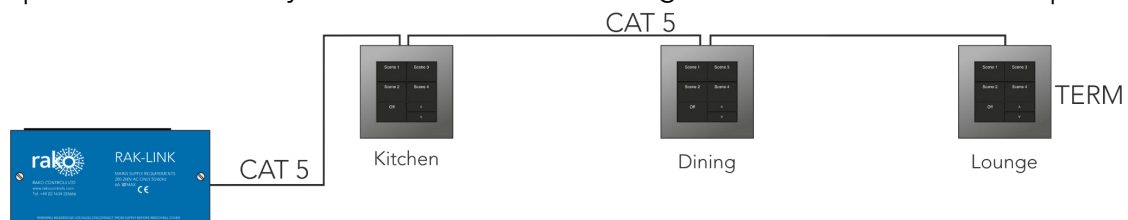
The WK-MOD-xxx-x is a keypad for use with Rako wired systems. It is available in a wide variety of button configurations including:

WK-MOD-040-B - 4 button - Scene 1, off, fade up & fade down - Black buttons
WK-MOD-070-B - 7 button - Scenes 1-4, off, up & down - Black buttons
WK-MOD-110-B - 11 button - Scenes 1-8, off, up & down - Black buttons

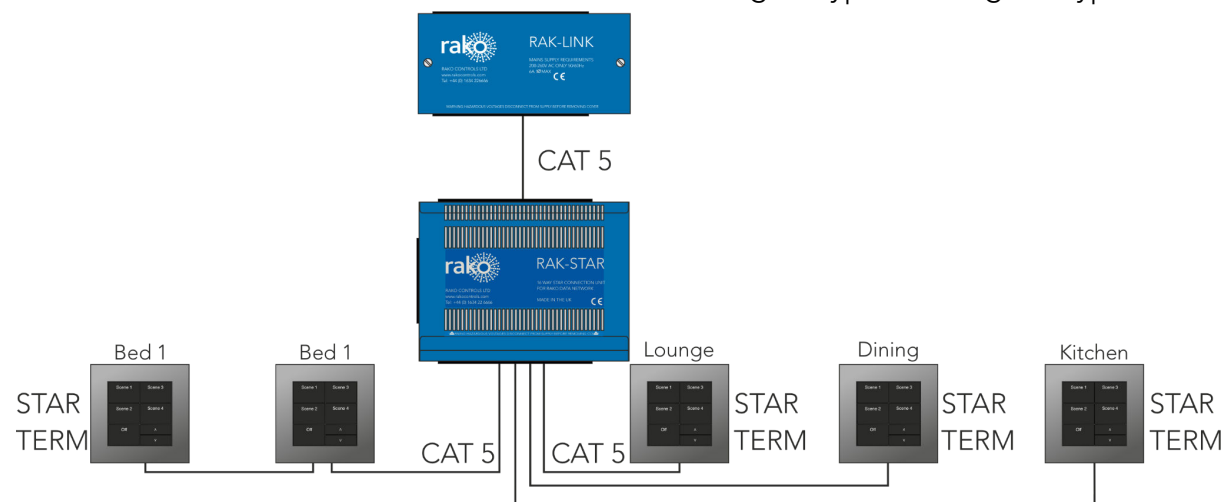
The WK-MOD requires a RAK-LINK to operate as part of the system. WK-MOD (as part of the wired network generally) can be wired in two ways:



"Daisy Chain" configuration - A single run of keypads runs from the RAK-LINK and to an end point. It is still usually advisable to run a return leg back to the RAK-LINK as a spare.



"STAR" configuration - Cables are all run back to a central point: a RAK-STAR usually located with the RAK-LINK. Each cable can be from a single keypad or a leg of keypads.



Before installing the WK-MOD:

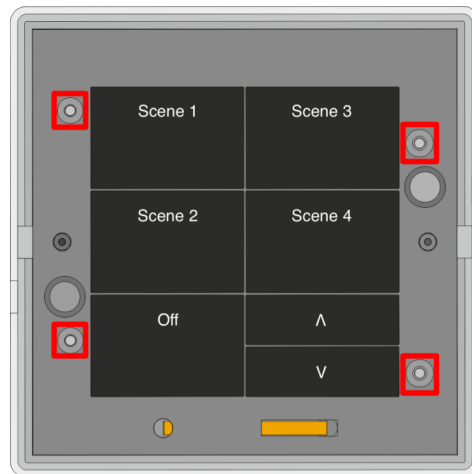
The WK-MOD comes in two sections "Front" and "Back" ; they are referred to as such in the following installation guide.

NB

The "Back" section is just a connection board for the CAT5/6 cable. The "Front" section contains all memory and programming

-----WARNING-----

The WK-MOD has four visible screws on the "Front" section as shown below:

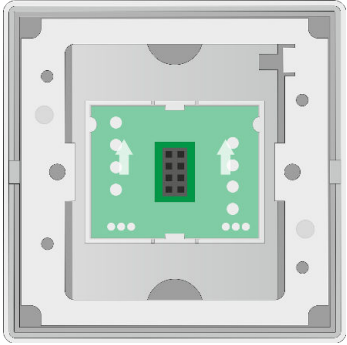
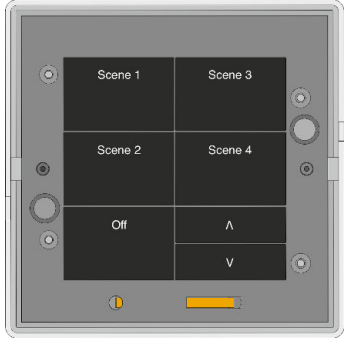
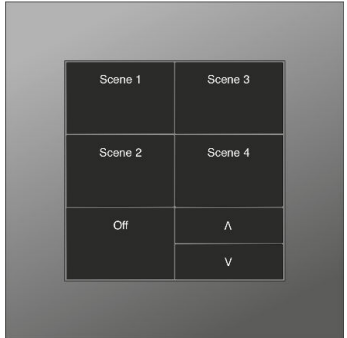


These must not be adjusted. Adjusting these may damage WK-MOD-xxx-x

Installation of the WK-MOD-xxx-x with HS-MOD-xx :

Before installing the WK-MOD separate the "front" and "back" sections

Step 1	A diagram showing the WK-MOD being separated into two halves. The top half is shown with a blue Y-shaped cable connector. The bottom half is shown with a yellow Y-shaped cable connector.	Prepare cable(s) in backbox (minimum 35mm) ready for connection. Separate the two halves of the WK-MOD ready for installation. Where metal back-boxes are used it is important that the adjustable lug (if present) is on the left or right hand side.
Step 2	A diagram showing the WK-MOD back section installed in a backbox. The back section is a green circuit board with various components. Cables are shown being connected to the board. The front section is shown as a separate unit to the right.	The "back" section (with the punchdown connections) will be installed first. Punch down cable(s) matching cable colours to connection colours as shown on the circuit board. There may be either one or two sets of cables to punch down.

Step 3		Terminate the WK-MOD as required. See <i>"Terminating the WK-MOD"</i> section of this manual. Screw the grid containing the back section into the back-box. The back section of the WK-MOD is now installed and is ready for the front section.
Step 4		Clip the front section of the WK-MOD into the grid. Push each corner firmly into position to ensure good connection. TIP: <i>If the wired network is powered then the backlit LEDs on the keypad will illuminate.</i>
Step 5		Attach the magnetic surround to the assembly to complete installation. TIP: <i>If the surround is not sitting flush with the wall/grid try loosening/tightening the screws securing the back section into the backbox.</i>

Surrounds (HS-MOD-xx)

To complete installation of the WK-MOD a HS-MOD-xx is required as shown above. This is available in a variety of finishes including:

- *Satin Chrome (Silk) surround kit - HS-MOD-SC*
- *Polished Chrome surround kit - HS-MOD-PC*
- *Antique Brass surround kit - HS-MOD-AB*
- *Polished Brass surround kit - HS-MOD-PB*
- *Matt Bronze surround kit - HS-MOD-BM*
- *Matt White surround kit - HS-MOD-WH*
- *Matt Black surround kit - HS-MOD-MB*

Terminating the WK-MOD

It is important to terminate WK-MOD correctly otherwise the wired system will not function. The termination that is required depends on the nature of the installation and the position of the RAK-LINK within the system.

No Term - Both Jumpers removed

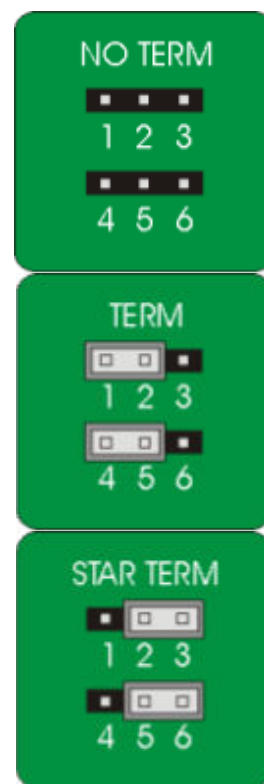
Used when the WK-MOD is not at the end of line. This is usually identifiable by two cables being punched down to the WK-MOD.

Term - Jumper fitted across 1+2 & 4+5

Used when the WK-MOD is "end of line" in a daisy chain configuration. For example the WK-MOD marked "TERM" shown in "Typical Wired Installation layout" on page one.

Star Term - Jumper fitted across 2+3 & 5+6

Used when the WK-MOD is "end of line" in a STAR wire configuration. For example the WK-MOD marked "STAR TERM" on page one.



Programming the WK-MOD

The WK-MOD is programmed using the Rasoft Pro programming software. A WK-HUB or WA/WTC-Bridge is required for any programming of a wired system.

To put the WK-MOD into setup mode:

- Press and hold any button on the WK-MOD
- Whilst keeping this button held down press any other button three times
- The backlit LEDs will begin to cycle to indicate the keypad has entered setup mode

[Wired system Programming Guide](#) - For information on how to program the wired system using Rasoft Pro.

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.

