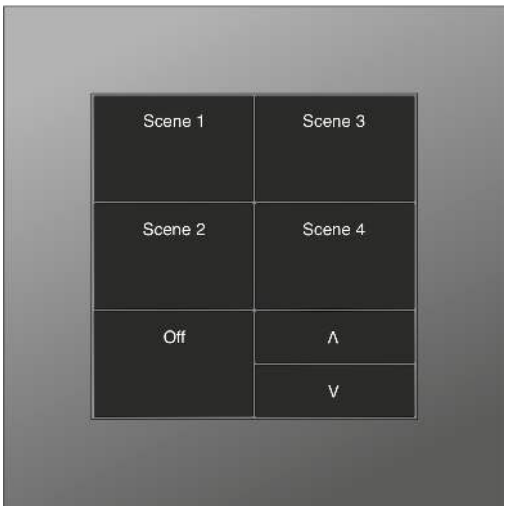
Instruction Manual

WK-MOD

Wired Modular Keypad

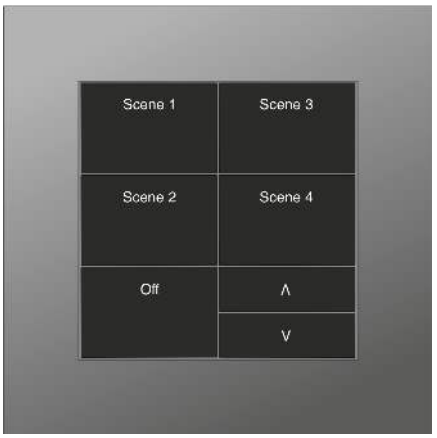


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Version 2.0.1

Contents

1 What is the WK-MOD?....3
2 Installing the WK-MOD....3
3 Terminating the WK-MOD....5
4 Programming the WK-MOD....5
Appendix 1 - Troubleshooting the Wired Network....6
WK-MOD Diagnostics....6
Appendix 2: System Wiring Examples....7
RAK System Radial Wiring....7
RAK System STAR Wiring....8
DIN System Radial Wiring....9
DIN System STAR Wiring....9

1 What is the WK-MOD?



The WK-MOD is a modular keypad used in a Rako Wired network. It is available in a wide variety of button configurations, as well as fully customisable button positioning and sizes, should it be required.

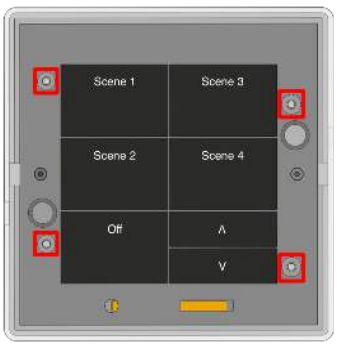
Through Rasoft Pro, commands can be assigned to the buttons to perform actions, such as selecting a Scene for a Room or closing Blinds.

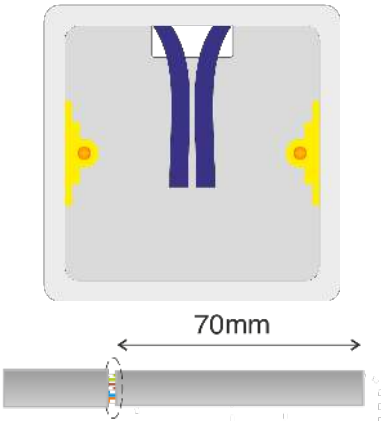
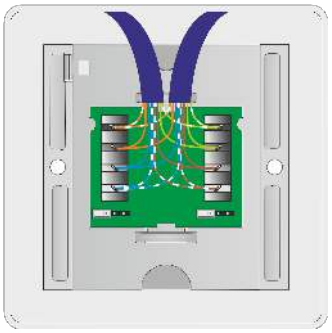
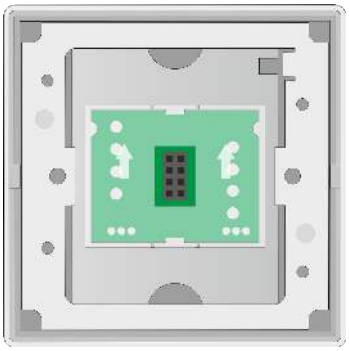
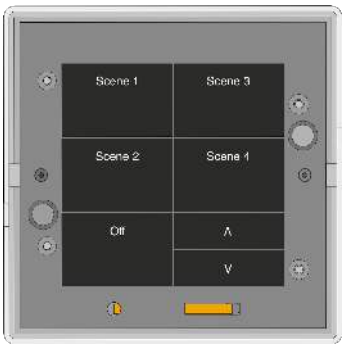
Commands include:

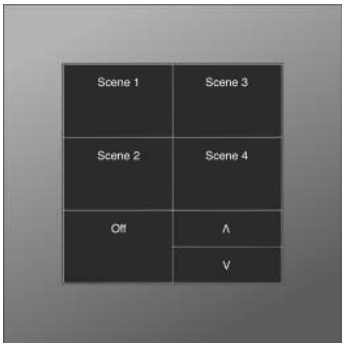
- Scenes 1 to 16
- Toggles for individual Channels or Rooms
- Fade Up/Fade Down for individual Channels or Rooms
- Levels (0-100%)
- Multiple commands on a single input
- Press and hold
- Press and release
- Whole House commands

2 Installing the WK-MOD

⚠ Do not remove the screws shown below during the installation.

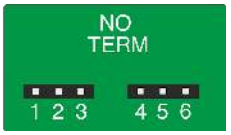


1	 *Remove 70mm of insulation*	Prepare cable(s) in the backbox (minimum 35mm backbox depth), ready for connection. Remove 70mm of insulation. Prepare cable(s) in the backbox. Remove the front section of the WK-MOD and set aside.
2		Punch down the cable(s), matching cable colours to connection colours as shown on the circuit board. There may be either one or two sets of cables to punch down. Terminate the WK-MOD as required. See the "3 Terminating the WK-MOD" section of this manual.
3		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.
4		Clip the front section of the WK-MOD into the grid. Push each corner firmly into position to ensure a good connection. NB If the wired network is powered, then the backlit LEDs on the keypad will illuminate.

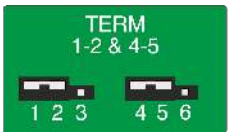
5		Attach the magnetic surround to the assembly to complete the installation. For more information on available finishes for the magnetic surround, see the Coverplate Application Sheet. NB If the surround is not sitting flush with the wall/grid, try loosening/tightening the screws securing the back section into the backbox.

3 Terminating the WK-MOD

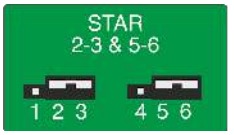
It is important to terminate the WK-MOD correctly, or the wired system will not function. The termination that is required depends on the nature of the installation and the position of the WK-MOD within the system.



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 - Jumpers fitted across 1+2 & 4+5
Used when the WK-MOD is "end of line" in a daisy chain configuration.



Star Term - Jumpers fitted across 2+3 & 5+6
Used when the WK-MOD is "end of line" in a STAR wire configuration.

4 Programming the WK-MOD

Before the WK-MOD can operate Lighting or Blinds, it needs to be programmed into a Wired system using Rasoft Pro and a WK-HUB.

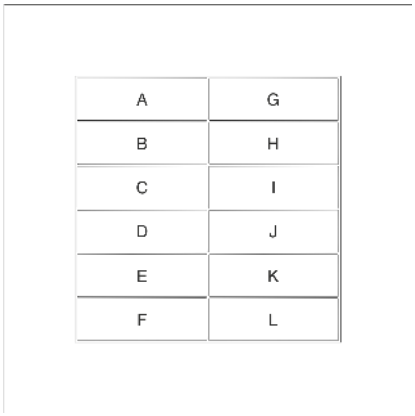
For instructions on how to do this, please refer to the Wired programming guide:
Wired system setup guide.

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 - Troubleshooting the Wired Network

If any issues are detected on the device's power-up, the onboard LEDs provide fault codes. For more information and further diagnostic information, refer to Wired System Diagnostics.

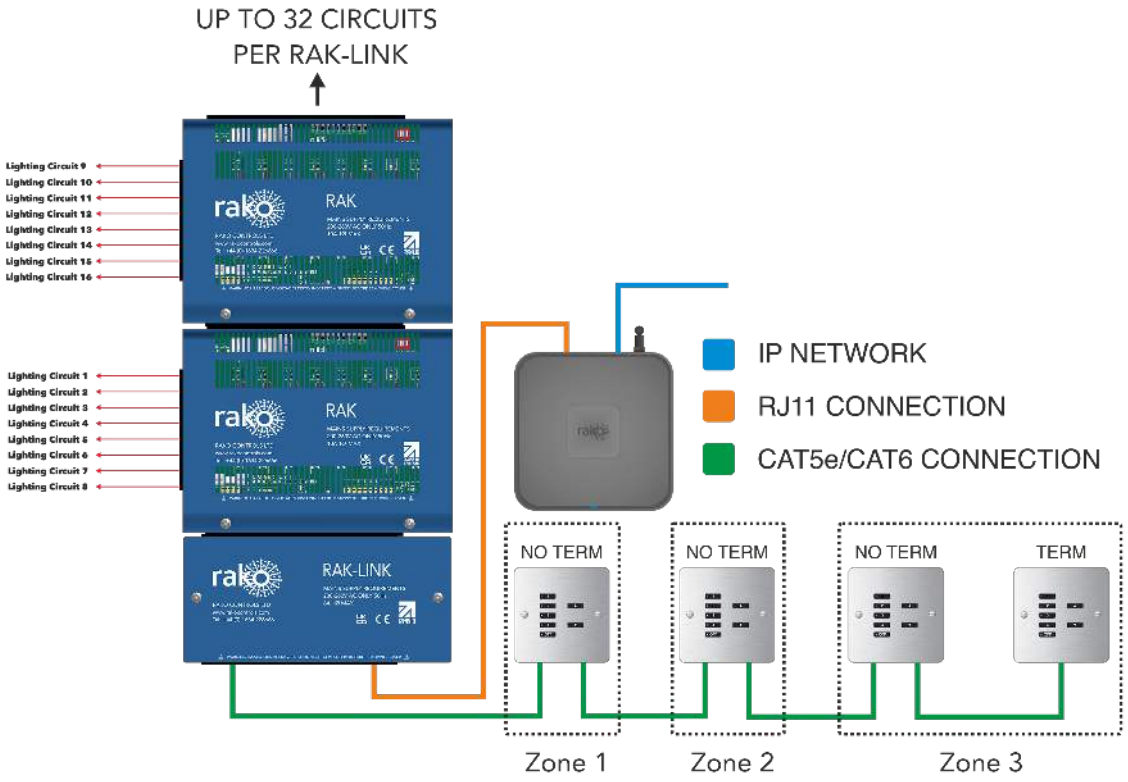
WK-MOD Diagnostics



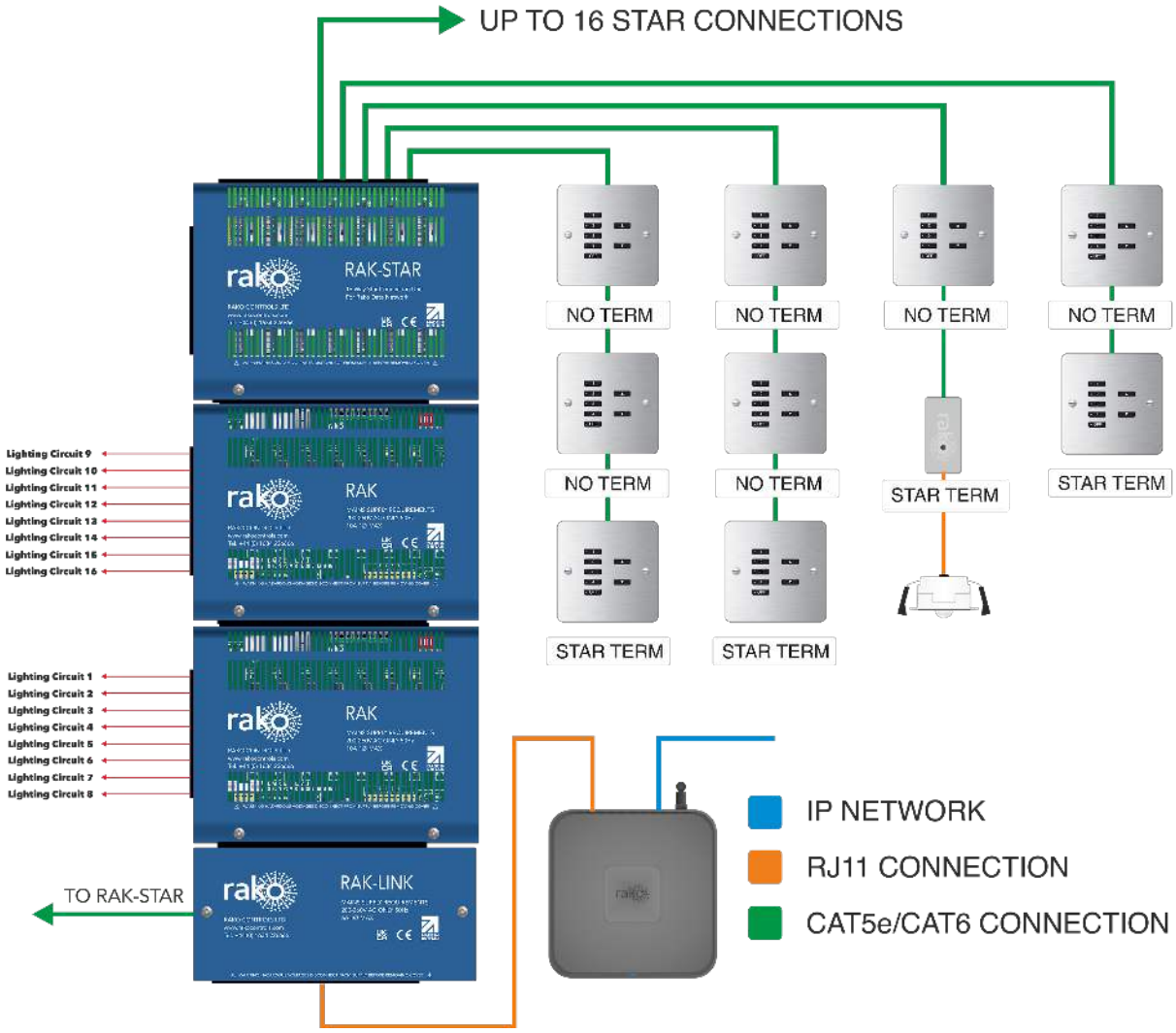
Letter	Indicates	Uses/example
G	CAN Transmission Failure	Cannot communicate with any other CAN device.
I	CAN Short	CAN bus shorted together, check the data pairs blue and green.
E	Low power	Supply to the keypad has dropped below its operating range, which should read between 12-15VDC on the brown and orange pairs.
A	Bootloader	The keypad has not booted the firmware. Required state for firmware upgrade. Mode can be entered via Rasoft Pro or by holding a button down on power up.
I + K or L K = Over L = Under	Over/Under Voltage indicator	Over/under voltage identifier. Used in conjunction with 'K' and 'L'.

Appendix 2: System Wiring Examples

RAK System Radial Wiring

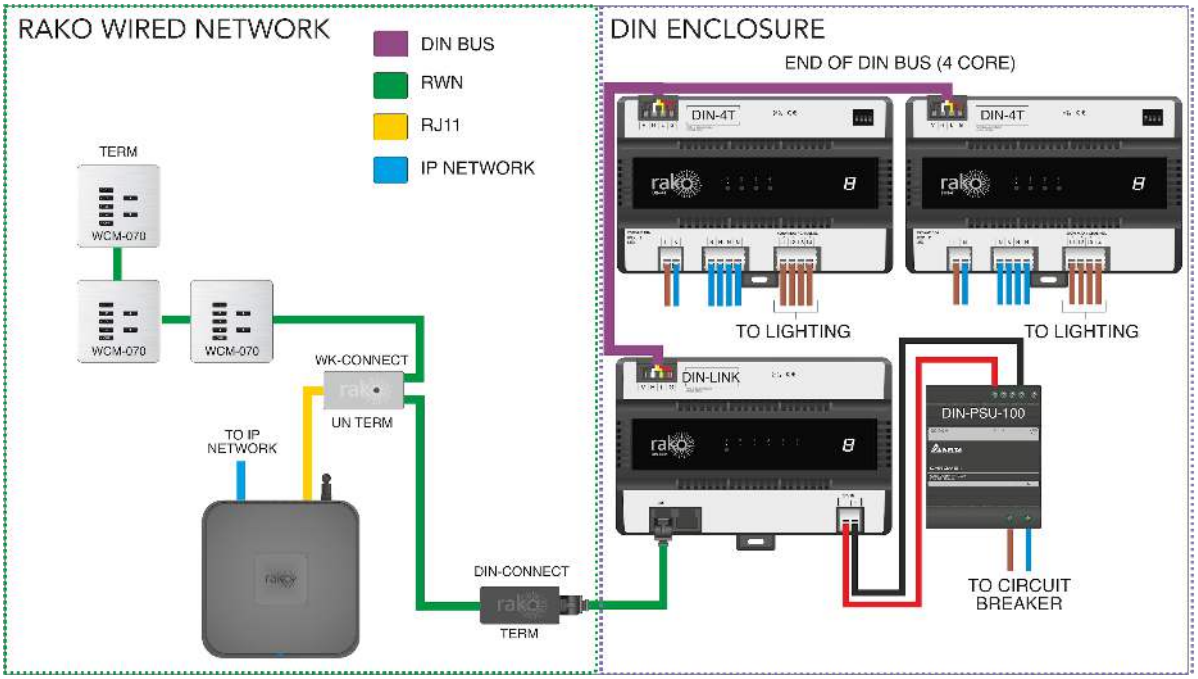


RAK System STAR Wiring

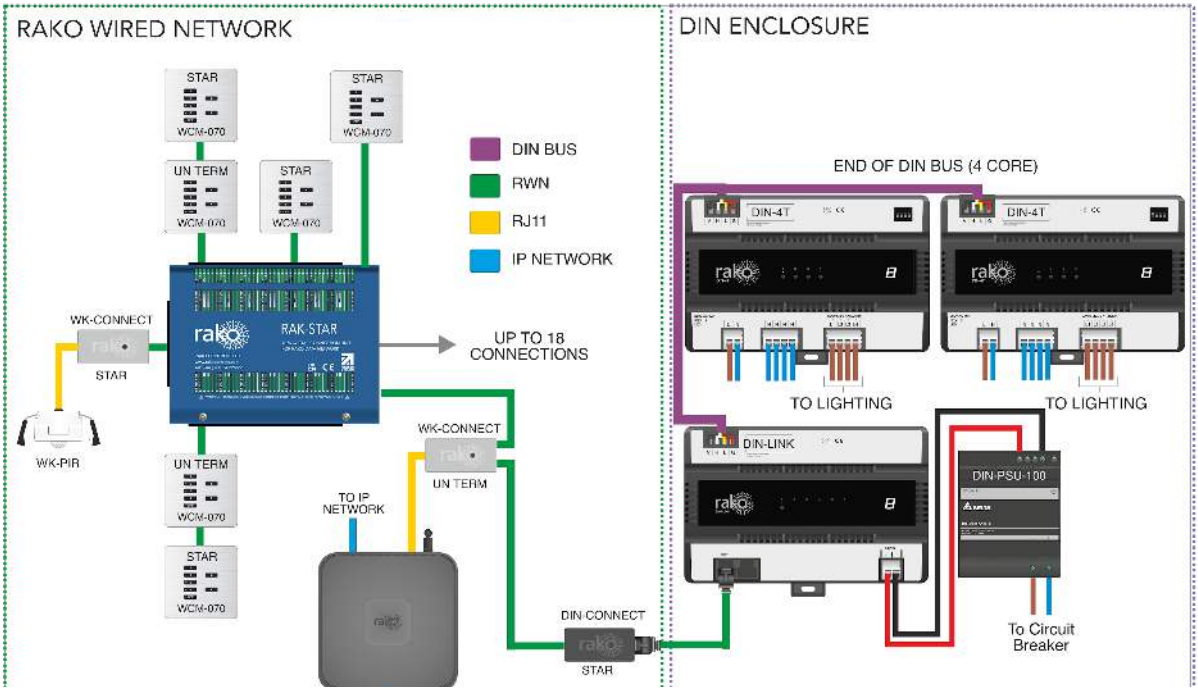


More than one Device can be connected to a leg on a STAR system. Devices in the middle of a loop in/loop out should be set to TERM, and the end of lines should be set to STAR.

DIN System Radial Wiring



DIN System STAR Wiring



More than one Device can be connected to a leg on a STAR system. Devices in the middle of a loop in/loop out should be set to TERM, and the end of lines should be set to STAR.