RAK-LINK Instruction Manual

For programming information: "Wired programming guide"



For further installation information: "Wired Application Sheet"

What is the RAK-LINK?

The RAK-LINK is a required element of any wired system.

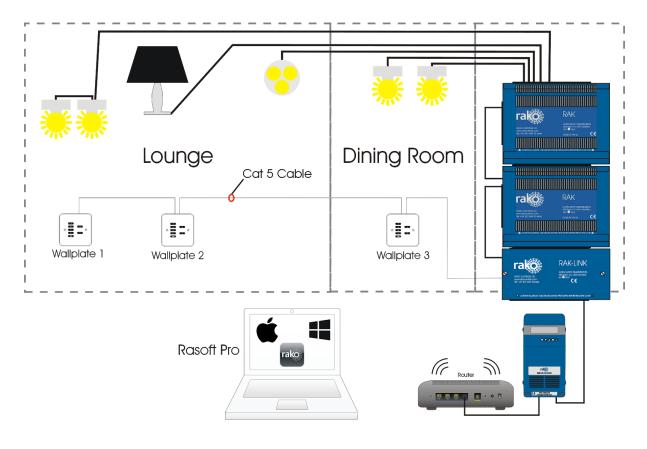
The RAK-LINK powers the wired network and also provides a link between the keypads and RAK dimmers.

Up to 32 RAK circuits can be used per RAK-LINK. These 32 circuits can be designated in any combination of RAK8s and RAK4s.

The RAK-LINK supports up to approximately 40 wired devices communication devices in a typical installation of 1000m of data cable. "Wired communication devices" refers to WCMs (keypads), WAPIR (motion sensor) etc.

For a more exact calculation of power requirements please refer to "RAK-LINK diagnostics" application sheet.

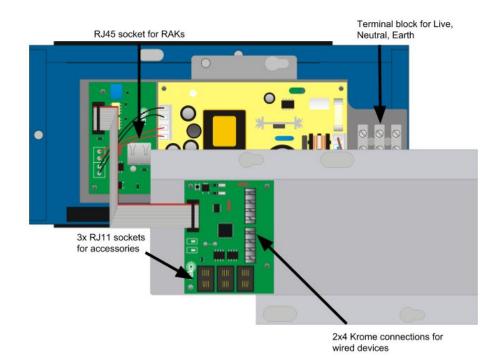
Typical Wired Installation layout:

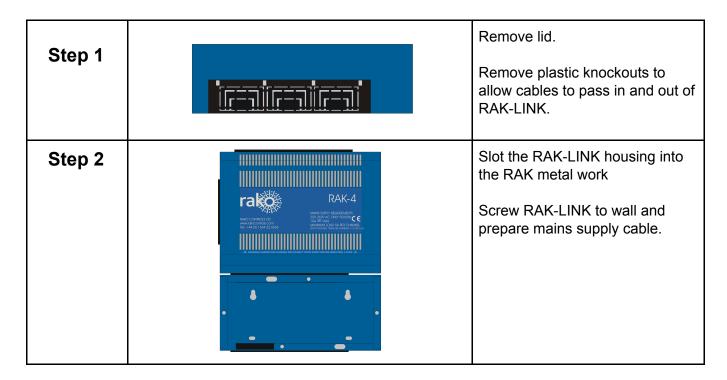


Installation of the RAK-LINK

The connections to the RAK-LINK, as shown below are:

- 1) Mains AC connection to power supply
- 2) RJ45 patch lead to RAK stacks
- 3) Krome connector punchdowns and RJ11 sockets to wired network
- 4) Optional 3 x RJ11 sockets for wired accessories



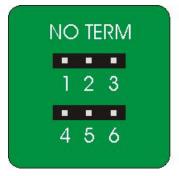


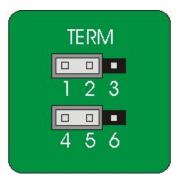
Step 3	Remove the top tray by disconnecting the ribbon cable and screws Fix the lower tray into the wall mounted metal housing using the screws indicated in the diagram.
Step 4	Wire the mains supply into the terminal block. Insert the RJ45 cable that links the RAK-LINK to a stack of RAKs. Prepare two remaining screws to be slotted into top tray
Step 5	Reattach the ribbon cable between the top and bottom board Slot the top tray into the bottom tray and screw down
Step 6	Punchdown the CAT5 to wired network to complete installation. If required plug devices (for example Bridges) into the RJ11 ports

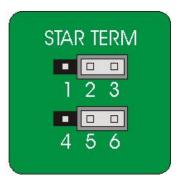
Terminating the RAK-LINK

The final step in the installation process is to terminate the RAK-LINK. The termination that is required depends on the nature of the installation and the position of the RAK-LINK within the system.

Termination Jumper settings:







No Term - Both Jumpers removed

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

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

Used when the RAK-LINK is end of line in a daisy chain configuration (such as the RAK-LINK shown in "Typical Wired Installation layout" on page one).

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

Used when the RAK-LINK is end of line in a STAR wire configuration.

See Wired application sheet for more information on the different types of wired installation.

Programming the RAK-LINK

The RAK-LINK is programmed using the Rasoft pro programming software. A WA/WTC-Bridge is required for any programming of a wired system.

For more information on how to programme a RAK-LINK please refer to "Wired System Setup Guide"

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.

