RAK4-T Instruction Manual

For programming information: "Wireless RAK/Wired programming guide"

For general system information: "Wireless RAK/Wired Application Sheet"

Overview:

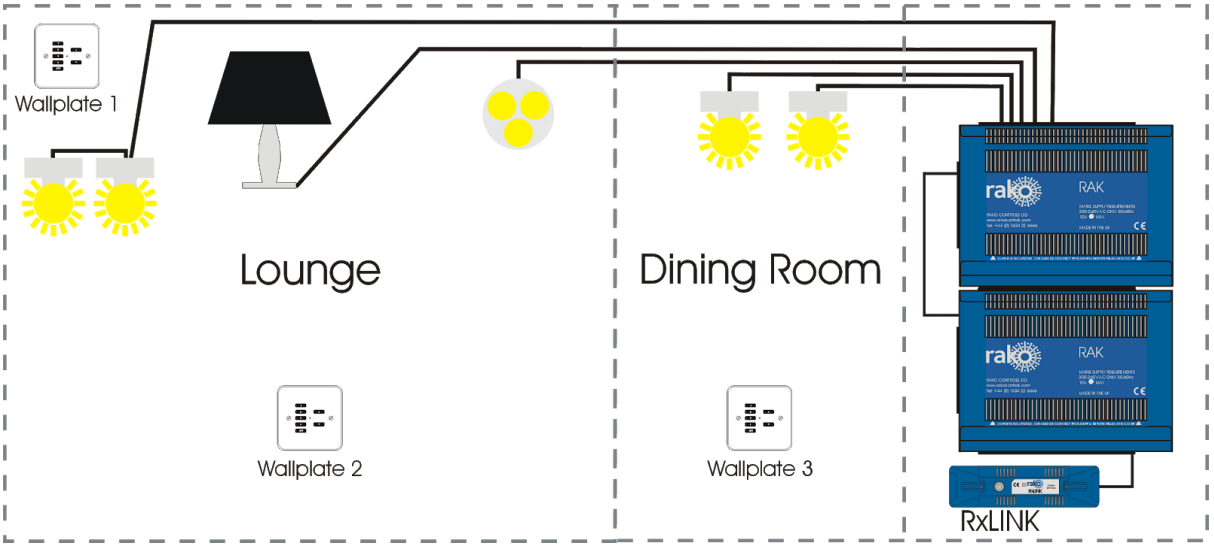
A four channel dimming RAK, designed to be wall mounted in an electrical cupboard. The dimmer has 4 separate dimming channels that can control a total of 2400W/2000VA of trailing edge dimmable lighting loads. In parallel with the 4th dimmer channel is a separate switched relay channel for LEDs or Fans or other non-dimmable loads.

The RAK4-T is used for mains dimmable LEDs, tungsten and all other trailing edge dimmable loads.

RAK4s, combined with a Link device (RxLINK or RAK-LINK) can either be used as a single 4 channel unit or formed into a "stack". RAK4s can be also be used in combined stacks with RAK8-MB units on the same Link device.

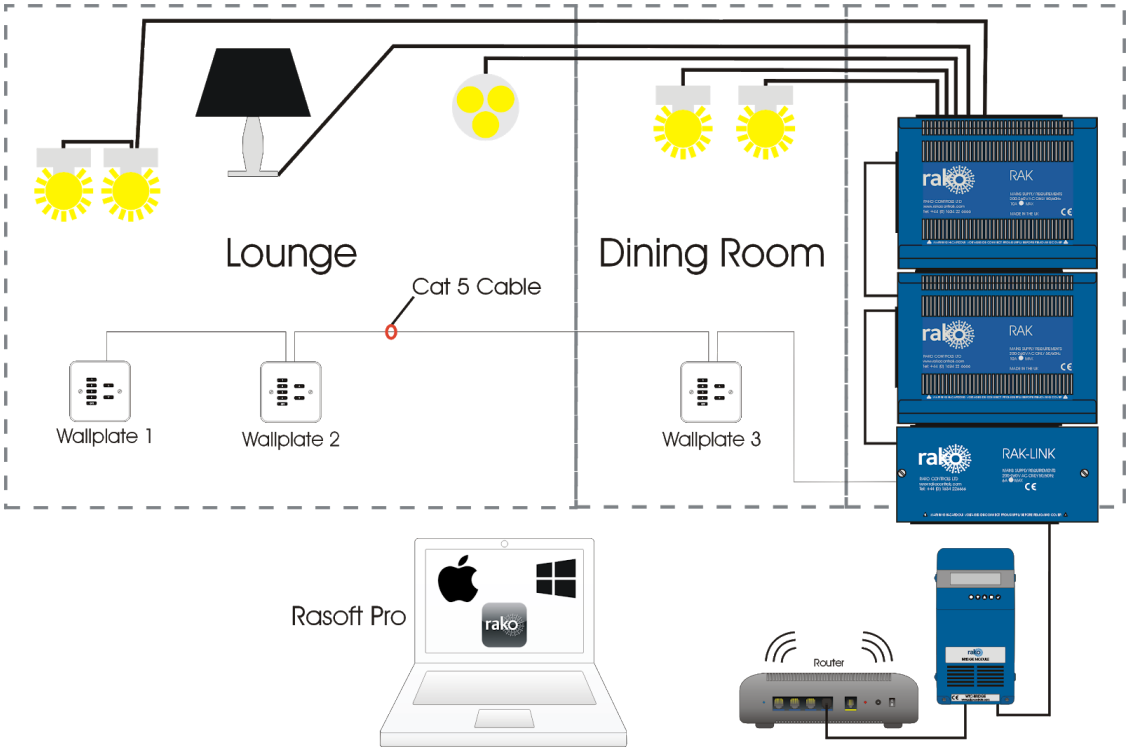
Before commencing installation of a Rako product first read this instruction manual carefully. Rako Controls Ltd. accepts no responsibility for any damage or injury caused by incorrect installation of a Rako product. Installation should only be carried out by a qualified electrician. Always install RAK units in a well-ventilated room, with a minimum clearance of 50mm at the sides in the correct orientation i.e. vents top and bottom. Each RAK unit must be earthed.

Wireless system (RxLINK):



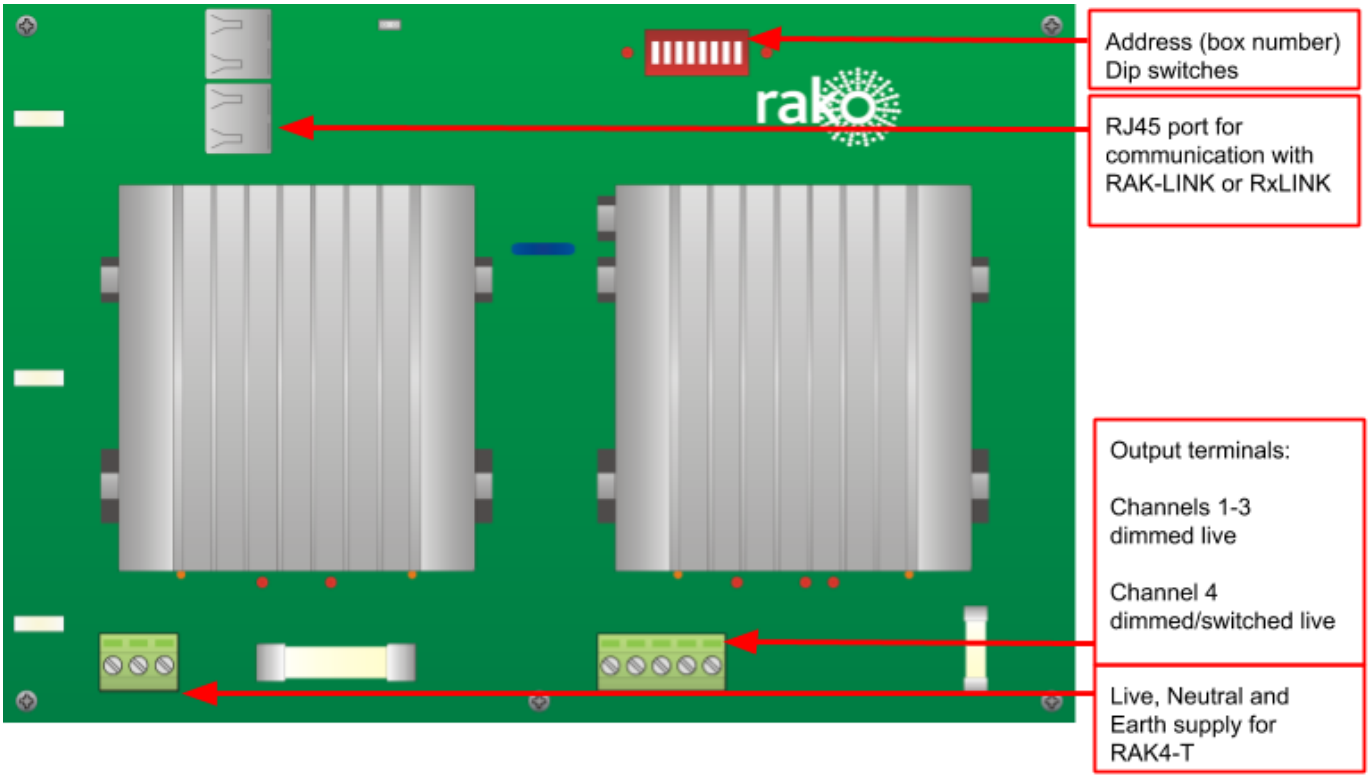
The RxLINK is used to integrate the RAK(s) into the wireless system and can support a total of 16 circuits. For example two RAK8s or one RAK8 and two RAK4s.

Wired system (RAK-LINK):



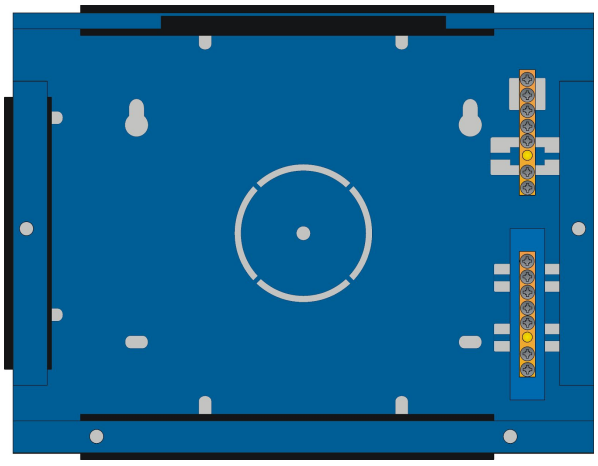
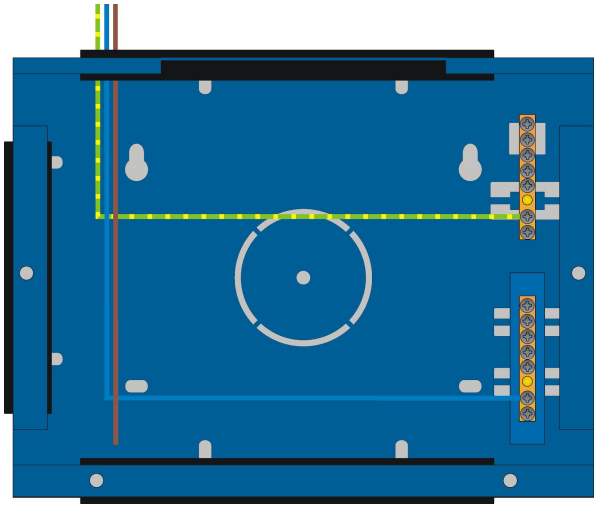
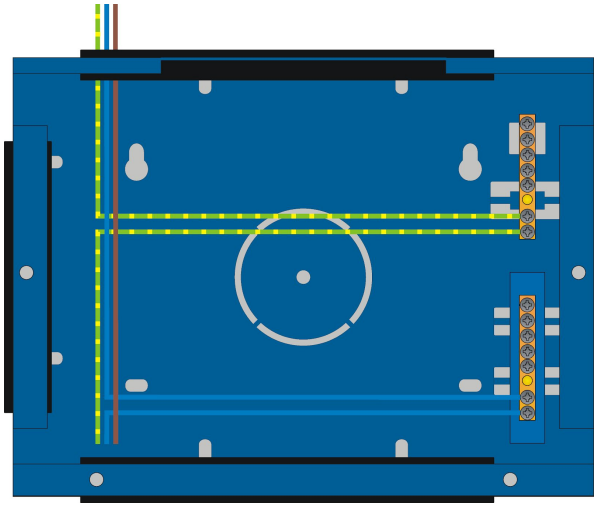
The RAK-LINK is used to integrate the RAK(s) into the Rako Wired Network and can support a total of 32 circuits. For example 4 RAK8s or 3 RAK8s and 2 RAK4s.

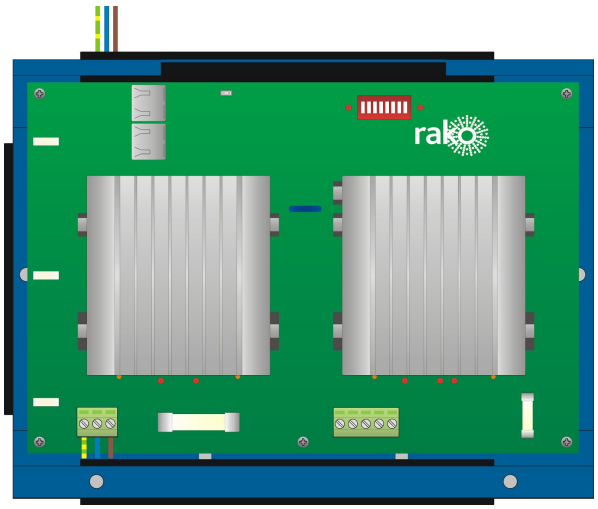
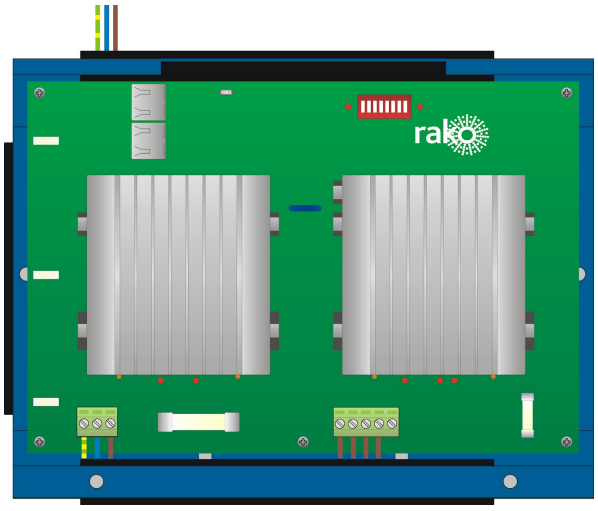
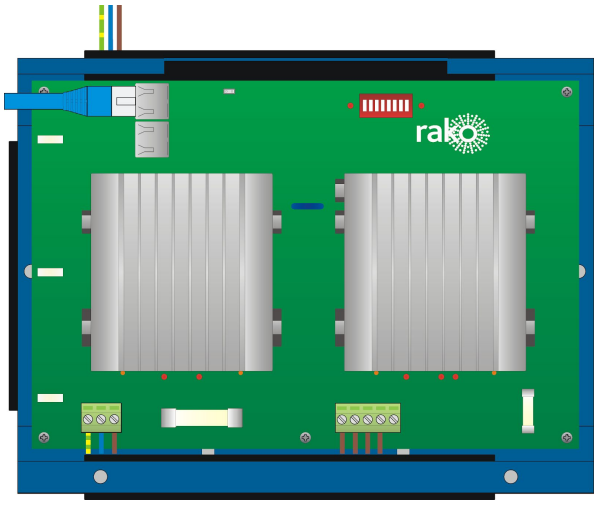
The circuit board:



Installation

POWER SHOULD BE ISOLATED THROUGHOUT THE INSTALLATION PROCESS

Step 1		Secure metal box housing to wall or secure mounting position. The RAK system relies on being vertically mounted to allow the ventilation system to work properly.
Step 2		Bring a separate 10A protected supply to each RAK case. Connect the Neutral and Earth to the buzz bars as shown. Bring the Live to the front of the metalwork ready for connection to the circuit board.
Step 3		Bring a single Neutral and Earth from the buzz bars to the front of the metalwork. Prepare screws on either side of metalwork ready to hold the circuit board. They should be present and screwed loosely in to the case.

Step 4		Place the circuit board on the two screw on either side of the metalwork. Do not screw down at this stage as the buzz bars need to be accessible for Neutral/Earth connections of lighting circuits. Connect Live, Neutral, Earth for board supply as indicated.
Step 5		Begin connecting lighting loads. Connect Neutral and Earth to appropriate buzz bars in the back of the casing. Make Live connections to the 5 way terminal block as shown or for as many circuits as used.
Step 6		Insert the RJ45 cable from the RAK-LINK/RxLINK into the port on the RAK and from there another RJ45 cable to each RAK in the “stack”. Screw down the circuit board to secure it to the case and fit lid to complete installation.

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.