



RAKO RMT1200 Trailing Edge Dimmer Instruction Manual

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RAKO RMT1200 Trailing Edge Dimmer



General

Rako RMT1200 modules are digital trailing edge dimmers suitable for use with mains voltage tungsten lighting, low voltage tungsten with electronic transformers and mains voltage LED lamps. RMT1200 dimmers are NOT suitable for inductive loads such as wire-wound transformers or electric motors. RMT1200 dimmers can be controlled by any Rako device that transmits wireless RAKOM messages. Before commencing installation of a Rako dimmer please read this instruction manual carefully. Rako Controls Ltd accepts no responsibility for damage or injury caused by incorrect installation of a Rako product. Installation should only be carried out by a competent electrician. Never attempt to connect a Rako dimmer or remove the terminal cover without first isolating the circuit at the fuse/MCB board. The circuit supplying a Rako dimmer should always be protected by either a 5A fuse or 6A MCB.

Mounting

Rako modules should be mounted in areas that are adequately ventilated, dry and outside of any enclosed metal casings that may interfere with the wireless signal. Modules should be mounted vertically, with the terminals at the bottom, ensuring the ventilation slots are not covered. Whilst Rako dimmer modules are designed to be completely maintained free the units should be mounted in an accessible location should there be a fault or re-addressing of the unit be necessary (see 'Set-up and Addressing')

Loadings

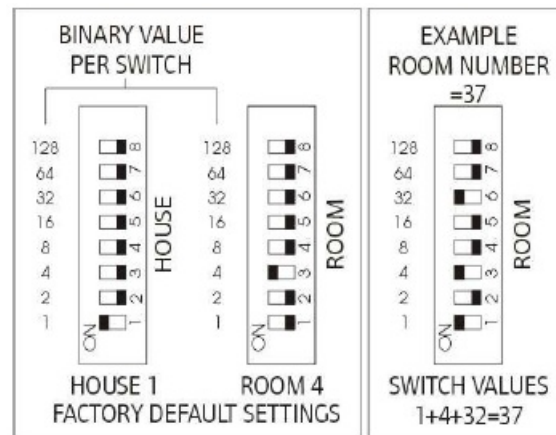
Min – 1W/Max – as below Mains voltage tungsten – 1200W Low voltage transformer loads – de-rate by 10%
Mains voltage LEDs – LED characteristics vary hugely. As a rule, allow a maximum of 25 lamps per dimmer, more may be possible but contact Rako for advice.

Connections

Isolate the supply, then remove the bottom two fixing screws and remove the main lid. Connect the supply and load terminals according to the labeling on the circuit board (see Fig.2 overleaf). The supply and load cables should be clamped securely using the two cable clamps fitted to the base of the unit. To ensure the cable clamping operates satisfactorily the cabling should be a minimum of 1.0mm². Alternative cable access is through the rear face of the unit. A knockout area is provided in the plastic next to each of the terminal blocks. **Do not**

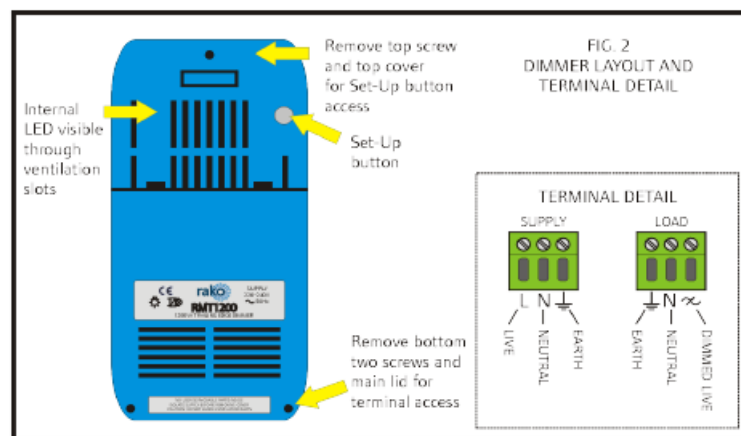
use loop In/Out connections within the module. A junction box should be used if required. Replace the lid securely before restoring power to the unit.

Initial Checks



When power is initially connected to the module the unit should switch the load ON. The load can then be manually switched using the Set-up button under the top cover (see Fig.2 overleaf). The factory set address for both modules and transmitters is House 1 Room 4 (See Fig 1 for further information). A Rako wireless wall panel set as address House 1 Room 4 will control and dim the module. Should the module not respond as above then further investigation should be made before proceeding further.

Set-Up and Addressing



RMT1200 modules can be programmed manually or by using RASOFT programming software. For software, programming refers to the appropriate programming guide supplied as a PDF with the programming interface (RA or RTC-Bridge, etc.) or download it from our website: www.rakocontrols.com.

To access the Set-up button necessary for both software and manual addressing remove the top screw and top cover (see Fig.2 overleaf)

Manual Addressing from Wallplate or Handheld

Before any lighting scenes can be programmed (see the wall panel or hand-held manual) the RMT1200 module needs to be addressed. To avoid interference between neighboring installations choose a House address other than the factory default of House 1 and set this on the transmitters using the House address switches. Keep the House address the same throughout the project (for master functions). Choose a Room address for each separate room or area to be controlled independently and set this on the appropriate transmitters using the Room address switches.

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

The module now needs to be sent its new House and Room address from the appropriate keypad. For rooms with multiple modules, each module needs to be also assigned a separate Channel number from 1-15 within each Room. The House and Room addresses are set using the switches on the back of a Rako transmitter (see Fig 1) and the Channel addresses are selected by putting a transmitter in programming mode and 'stepping' through the channel numbers (see Step 3 overleaf). This number is then 'sent' (along with the House and Room address) to a receiver (Step 5).

Notes on address switches

The address numbers are set using the switches on the back of a Rako transmitter. Binary coding is used and a diagrammatic explanation is given in Fig 1. It is not however necessary to understand binary just set the House switches to a different setting than the factory default and use a different combination of Room switch settings for each room or area to be controlled separately.

Notes on Addressing

A dimmer cannot be set to an address of House 0 (All switches set to off) A dimmer will respond to, but not receive an address of Room 0 (All switches set to off). This Room 0 address is used for 'Master House' control A dimmer cannot be set to channel 0. To program, a lighting scene sees the Wall panel or Hand held manual.

Power-Up Mode

With the factory address setting of House 1, an RMT1200 will turn ON when power is applied. When the House address is changed the Power-Up mode becomes 'OFF' which is generally preferred, for instance, if there is a power cut during a holiday.

Manual Operation

The set-up button can be used as a manual On/Off switch.

Multiple Control Panels

If the dimmer module is to be controlled by two wall or hand-held transmitters it is only necessary to address the module to one of these transmitters. Set the other transmitters to the same House and Room address and they will transmit exactly the same message as the first transmitter and the module will respond accordingly.

LED functions

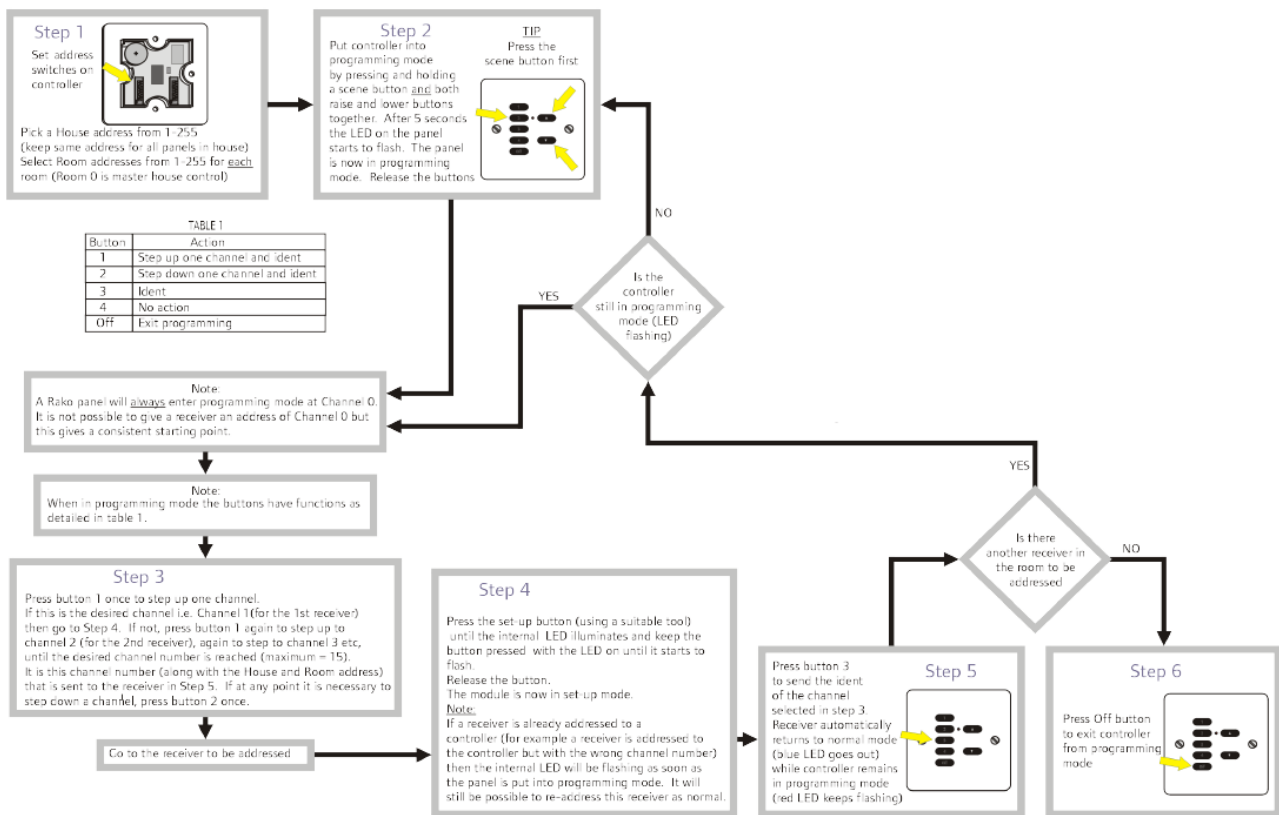
The internal LED will flicker when the module receives ANY Rako wireless message and is a useful diagnostic indicator. This function becomes inactive after 20minutes to avoid nuisance light spill but can be reactivated by pressing the set-up button. If an RMT1200 module has already been addressed to a wall panel the internal LED will start to pulse as soon as that transmitter (or any other transmitter with the same address) is put into programming mode. The module can still be re-addressed in the normal way, for example when changing its Channel address within the same Room.

Care and Maintenance

A Rako dimmer module contains no user-serviceable parts. Should for any reason you need to contact us please contact us via our website www.rakocontrols.com or by phoning our customer helpline on 01634 226666

Initial Addressing of a Rako Receiver Module


In the following procedure, both the controllers (wall panels and hand held remotes) and the receivers have an automatic time out after approximately 3 minutes in programming or set-up mode. This feature avoids the possibility of either being permanently in programming or set-up mode. This may cause confusion if either the controller or receiver times out before the procedure is complete.



If some receivers are already addressed to a wall panel then they will flash their connected lamps as their channel number is reached during the stepping procedure, this allows the user to identify which channel numbers are already taken. To add a new receiver to an existing installation step up through the channels until a channel number is reached where no receiver flashes a load, this is then an available channel. If at any point there is uncertainty as to whether a receiver actually flashed its load then button 3 will flash the load but without stepping up or down a channel. If all of the loads flash then this indicates that the current address is Channel 0.

Note: If it is not possible to see the connected lamps flashing when stepping through the channels it is possible to tell from the LEDs in the receivers which will momentarily go solid when their channel address is reached.

Documents / Resources

	RAKO RMT1200 Trailing Edge Dimmer [pdf] Instruction Manual RMT1200 Trailing Edge Dimmer, RMT1200, Trailing Edge Dimmer
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References

-  [Smart Lighting Controls | Rako Lighting Solutions](#)