RAB100 Rakom coded radio signal booster – Installation and Set-up Instructions.

General

The Rako RAB100 booster module is designed to boost Rakom RF signal from the RCP range of control panels, RAH07 hand held transmitter and RAV232, RS232 interface. It is to be used where the distances to the receivers exceed 15m and can boost the RF signal up to 100m. Modules are supplied with both transmit and receive aerials.
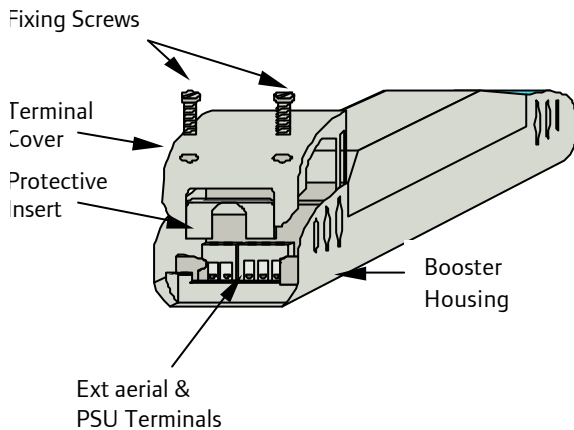

Fig 1.

Front View of Components

Labels: Fixing Screws, Terminal Cover, Protective Insert, Ext aerial & PSU Terminals, Booster Housing

Installation

Before commencing installation of the Rako Booster module, 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.

Power Supply

The RAB100 booster requires an SELV 12v DC power supply. See Fig 3 for connection details. The Rako power supply ref: RAPSU can be used or alternatively one of an equivalent specification. Please contact Rako for details on tel: 0870 043 3905

Booster Location

The RAB100 receives the RAKOM message from the transmitting devices and then re-transmits it to the receivers. The ideal location is therefore at the mid point between transmitters and receivers. It can be located in a ceiling void but minimising the number of solid materials the signals have to pass through must be a consideration as this will reduce the transmit/receive distances.

Note:

Because of the possibility of multiple booster modules locking into an endless loop of receiving and re-transmitting each others signals it is only possible to have one booster per house address.
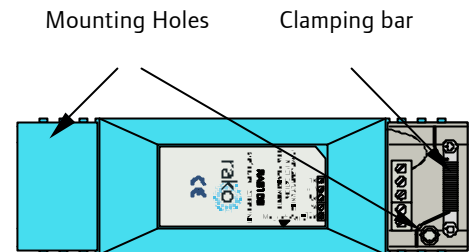

Labels: Mounting Holes, Clamping bar

Fig 2.
Termination Area

RAPSU power supply unit — +12V DC — 0V

Receive Aerial
To be mounted at 90° to the direction of the transmitters

Transmit Aerial
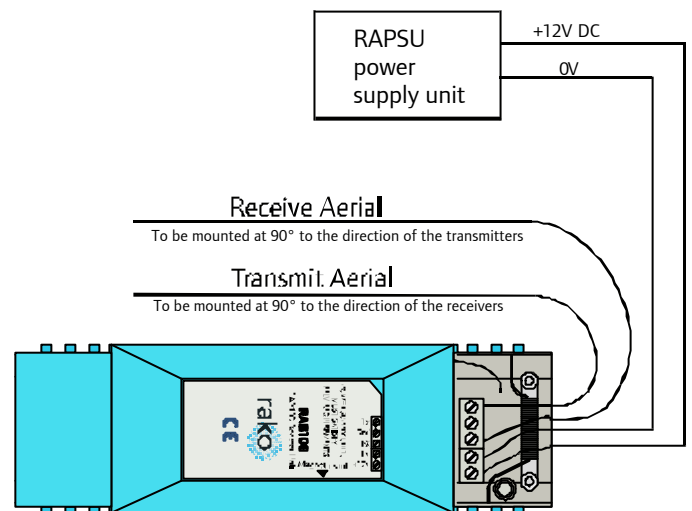To be mounted at 90° to the direction of the receivers

Fig 3.
Connection Detail

RAB100 House Set-up Procedure

Before the booster will work you first have to set it to the required house address using the following procedure:-

- Put wall-plate into programming mode.
- Put Booster into set–up mode.
- Press the ident button on transmitter.
- Exit programming mode on wall-plate.

Your booster should now be ready to operate.

Putting Wall-plate into programming mode.

Press and hold a scene button (one of the four numbered buttons on the left hand side of the plate) and at the same time press and hold both the raise and lower buttons (the right hand buttons). After 3 seconds the LED will start to flash, the plate is now in programming mode. To exit programming mode press the Exit button (see Fig. 5).

Note:

If the Exit button is not pressed or any other buttons pressed the panel will exit from programming mode automatically after 3 minutes.
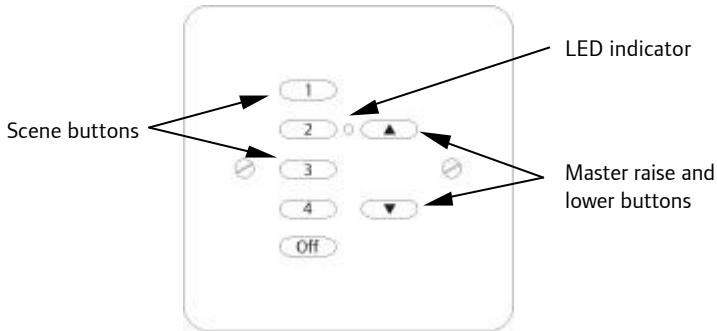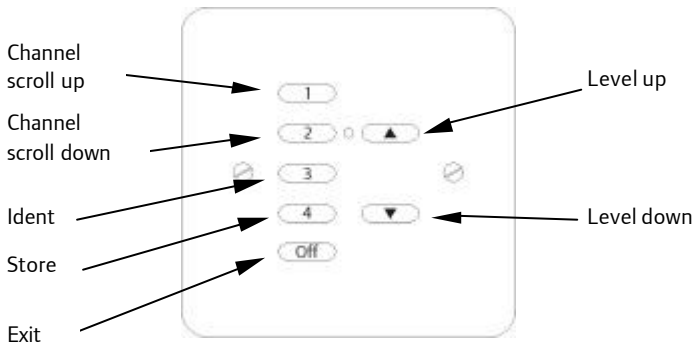

Fig 4.
Wall-plate buttons in normal mode

Fig 5.
Wall-plate buttons in programming mode

Putting Booster into Set-up mode using magnet method.

Using the small magnet provided with each booster, press the magnet against the casing just over halfway down (see Fig.6). The approximate position for this is indicated by the 'magnet point' legend on the top label. When the magnet is in the correct position an internal LED will illuminate. The LED will stay on with a steady illumination all the time that the magnet is in the correct position. Hold the magnet in this position for 3 seconds until the LED starts to flash. The booster is now in set up mode.
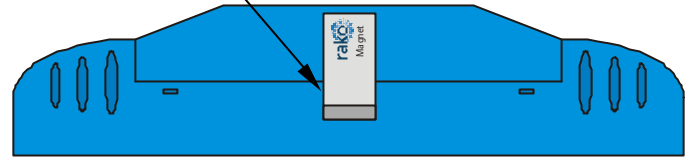
Approximate position for Rako programming magnet.

Fig 6.
Set-up Magnet Positioning

Care and maintenance

General

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 0870-043-3905.