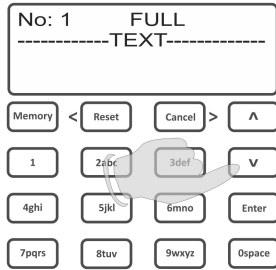
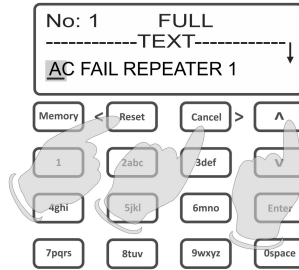


Program Custom Text on the MB4000



Press the Down button to make the cursor drop to the bottom of the screen.



You can now type in the description of the Repeater AC fail using the keypad. Use the < > buttons to go back and forth and use the Up button when finished the description to program a new Repeater AC Fail signal in:

Order Code:

Repeater unit Code Hopping_403MHz	RPT800
Repeater unit Code Hopping_433MHz	RPT800_433

Certifications:
 ETSI EN300 220-V2.4.1
 ETSI EN301-489-3 V1.4.1
 ETSI EN301-489-1 V1.9.2
 IEC 60950-1:2005 + A1:2009
 ICASA TA-2017/2655



Warranty

This product is sold subject to our standard warranty conditions and is warranted against defects in workmanship for a period of two (2) years.

Customer Support line: +2711 462 5101
E-mail: technical@sherlotronics.co.za

English

Installation Instructions - For Service Persons Only

Model No: RPT800

Repeater unit

Technical Specifications:

Model:	RPT800
Encryption type:	Code hopping
Transmission frequency:	403MHz / 433MHz
Transmission method:	OOK
Receiving range:	500m "Line of sight"
Transmission range:	100m "Line of sight"
Voltage range:	10V to 16VDC
Standby current consumption:	<60mA
Current consumption on TX:	< 110mA
Operating Temperature:	-3°C to 49°C
Dimension (lxbxh)	145 x 66 x 40mm
Gross weight:	135g

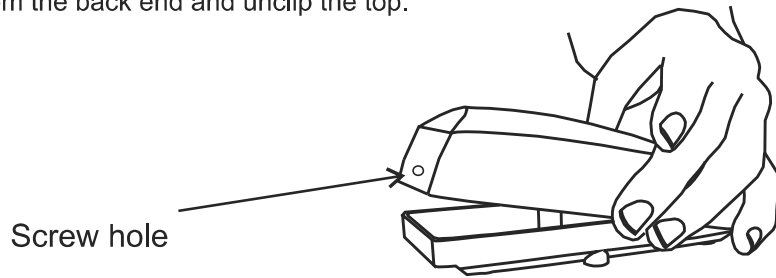
Description

The Repeater is used to strengthen signals thus extending the operation range of remote controls which are required to work around large buildings indoors or outdoors. The Repeater unit is designed to only Repeat signals that are LEARNT into its memory. A maximum of 4000 Remotes may be learnt in. The Repeater is compatible only to the Sherlotronics range of Code-hopping encryption transmitters.

We have added a Dip-Switch onto this new Rev 2.3 design that has a Auto Learn feature. If the dipswitch is enabled on then the unit will learn in signals automatically when received for the first time. Once you taken the unit out of Auto Learn mode by disabling the dipswitch off, the repeater will only respond and repeat signals that were learnt into its memory. The Repeater also has a AC Fail output and a Supervision output which can be enabled via the dip switch setting.

Opening The Unit

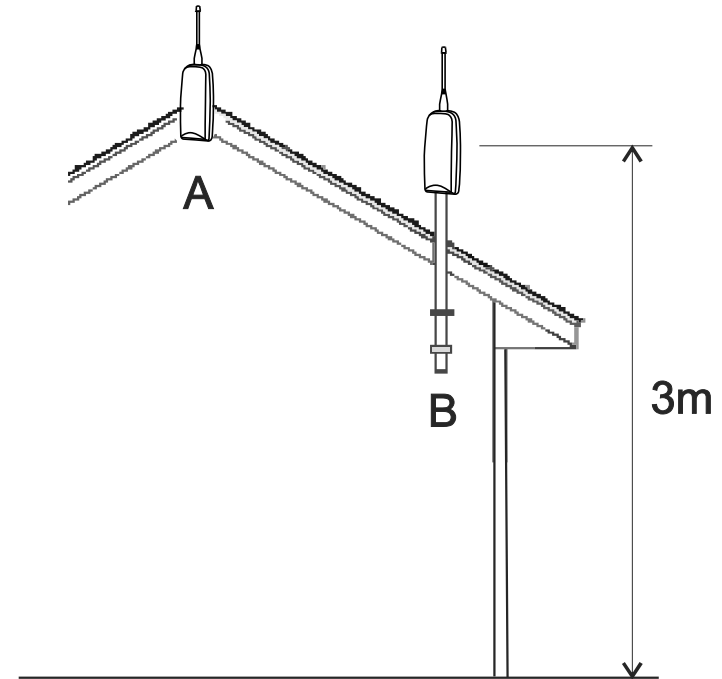
Remove the Aerial and make sure the screw on the bottom side is removed. Carefully lift the lid up from the back end and unclip the top.



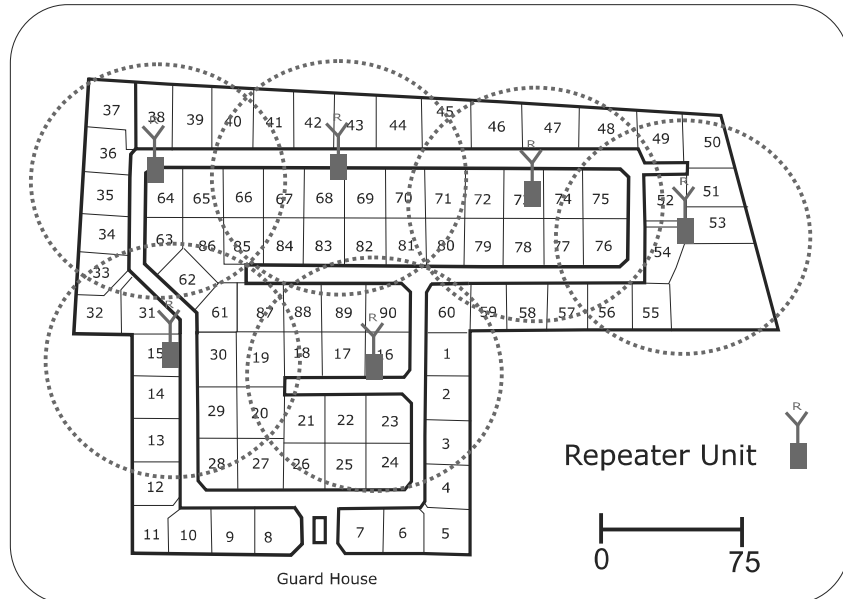
Site Positioning Hints:

Using either a site plan or google maps, study the site layout. Set repeaters on high points approx 75 meters apart from each other.

This practice will ensure that the system has good signal strength throughout all dwellings from behind walls.



Typical Retirement Village Repeater Site Plan



Mounting Advice

The plastic housing is splash proof, and may be mounted externally if required. The unit should be mounted vertically for best performance. Ensure that you do not mount the unit close to electric fence cables or energizers, as these products produce extreme levels of interference and may reduce the performance of the product. If mounting indoors try and centralise the unit, and keep it at least 3 metres away from armed response company's alarm radio transmitters.

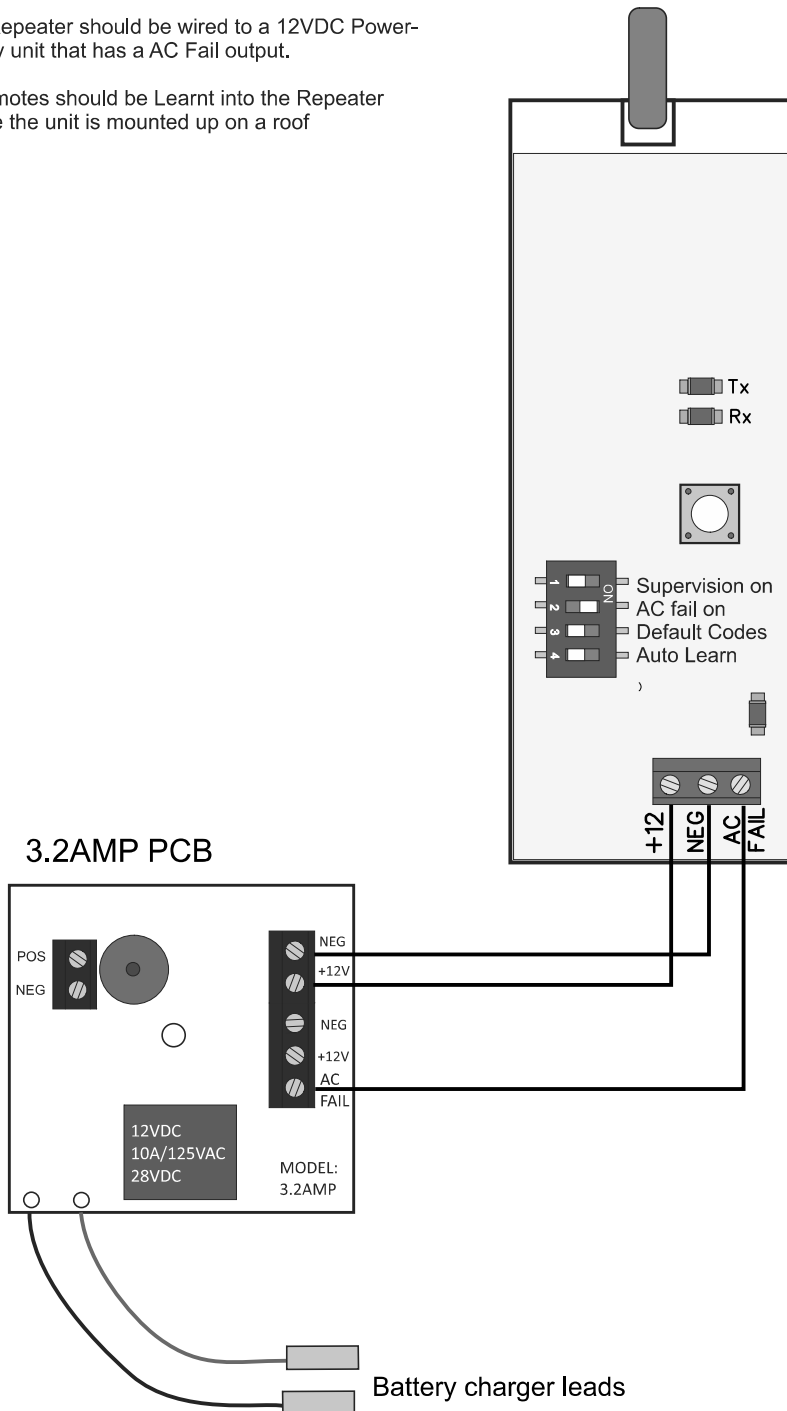
We recommend the unit to be mounted more than 3 metres above the floor height just above the trap door. For large properties that require exceptional range, mount the unit externally.

Always conduct a signal range test before you hand over the product to the client, ensuring that the system works reliably. You may need to move the unit if you encounter dead spots. In rare cases you may need to install a booster repeater unit for coverage around large multi levelled sites.

Wiring Diagram

The Repeater should be wired to a 12VDC Power-supply unit that has a AC Fail output.

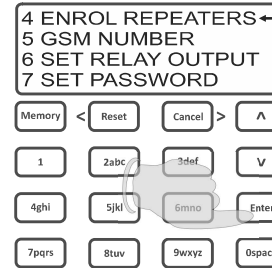
All remotes should be Learnt into the Repeater before the unit is mounted up on a roof



Enrol Repeaters To The MB4000

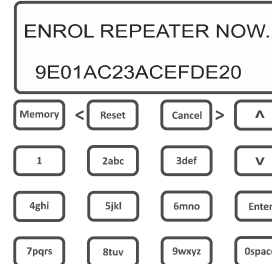
Follow the instructions to enter into Program mode with the ADMIN code before you begin

Step1



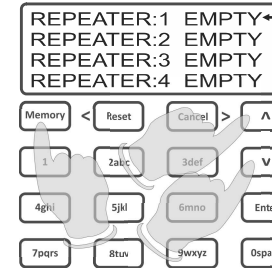
Make sure the Data Receiver is wired up as per the wiring diagram before you start. Press the Enter button to continue.

Step4



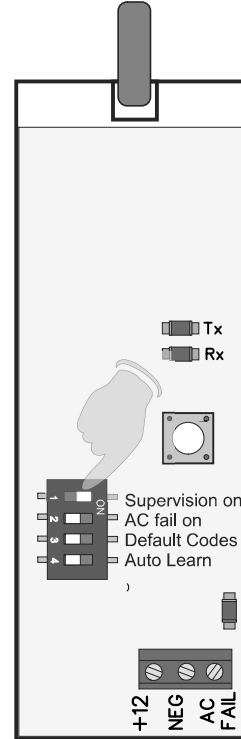
Now enable the Supervision on dip-switch on the RPT-800_V2.3 Repeater unit. The Repeater will start to transmit out a series of Supervision signals. Once the signals are received on the Mb4000 the Mb4000 will show a Hex code and

Step2

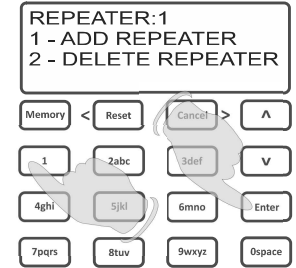


Select a Repeater No: using the Up / Down keys followed by pressing the MEMORY button

Step5



Step3



Press button 1 to ADD the Repeater to the unit for Supervision of the Device. The unit does a supervision check every 4 hours once the repeater is learn in.

Step6

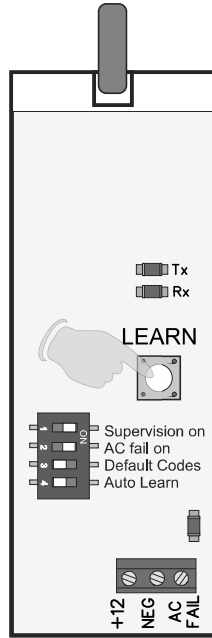


Select a Repeater No: using the Up / Down keys followed by pressing the MEMORY button or Press Enter to go back to the main menu screen

Learning Remotes To The Repeater

To Learn in remotes to the Repeater, simply keep pressing in the LEARN button down while transmitting the remote controls one at a time for approx 3 Seconds. Let the button go once the required remotes are learnt in. The RX LED will flash every time a remote control is learnt in.

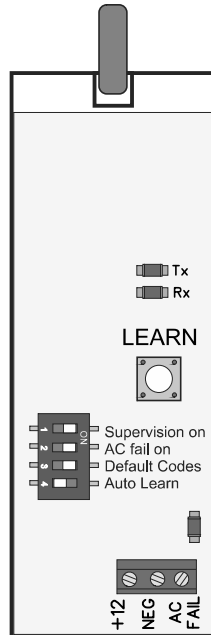
If you have more than 20 remotes to program you can switch the Auto Learn dip-switch on. Then program the remote one at a time until they are all learnt in. Once complete switch the Auto Learn dip-switch off and test if each remote responds to the Repeater. The RX & TX LED will flash when a remote control is activated.



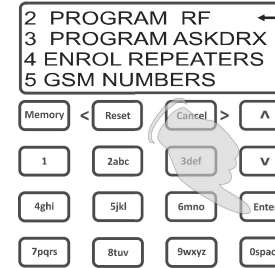
Defaulting The Unit

If you wish to erase or default the Repeater so that it is set back to factory settings, follow the step by step procedure below:

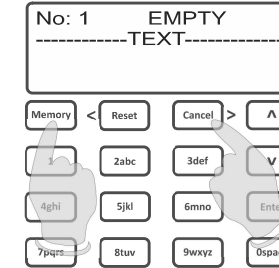
- Step 1. Enable dip-switch 3 (Default Codes) to the ON position.
- Step 2. Wait approx 10 seconds. The RX & TX LED will flash, once the LEDs stay on solid the unit is successfully defaulted.
- Step 3. Switch the dip-switch 3 off.
- Step 4. De-power the Repeater for 10 seconds.



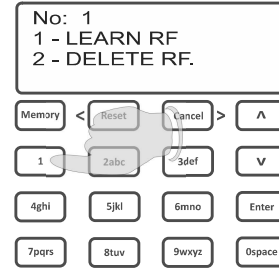
Learning The Ac Fail Signal To The MB4000



Use the up & down buttons to Select **PROGRAM RF**
Press the **Enter**

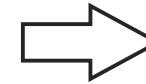
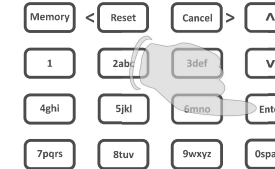


Press either the **>** to select a No: that is EMPTY or you can type in a number.
Once you have decided on a No: Press the **MEMORY** button.



Press button **1** to Learn in a RF Remote control devices to the units memory.

PRESS REMOTE BUTTON
3X TO LEARN IN.



The screen will prompt: **PRESS REMOTE BUTTON 3x LEARN IN.**

Flick the AC Fail ON dip-switch. The Repeater will start to transmit the AC Fail signal. Once this is learnt into the MB4000 the MB4000 unit will Beep to confirm it has successfully learnt.

To test that the AC Fail signal is learnt in, switch the AC Fail Dip-switch Off & On again.

The MB4000 will beep to acknowledge the received signal.

Then follow the procedure on the next page and type in custom text to identify the location of the Repeaters physical location.

