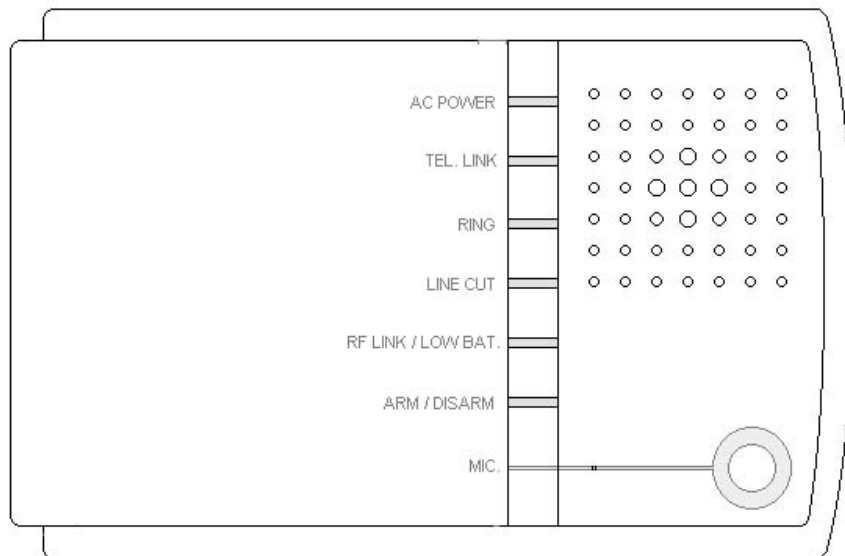
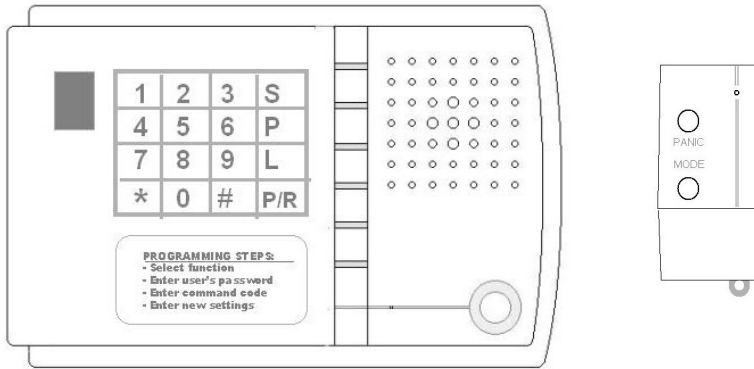


MONGOOSE
Model: MHA2000

Wireless Home
Alarm System
With Inbuilt Automatic
Telephone Dialler



User & Installation Manual



**QUICK REFERENCE GUIDE TO ARMING AND DISARMING
AFTER SYSTEM HAS BEEN INSTALLED AND PROGRAMMED**

BY REMOTE CONTROL

ARM OR DISARM – PRESS ‘MODE’ BUTTON

BY THE CONTROL PANEL

ARM

- 1) Press **S**
- 2) Enter the Passcode: **X X X X**
- 3) Wait until the LED displays “S”
- 4) Press **1**

DISARM

- 1) Press **S**
- 2) Enter the Passcode: : **X X X X**
- 3) Wait until the LED displays “S”
- 4) Press **0**

‘AT HOME’ – PARTIAL ARM

- 1) Press **S**
- 2) Enter the Passcode: : **X X X X**
- 3) Wait until the LED displays “S”
- 4) Press **#**

To clear control panel beeps after activation:

- 1) Press **P**
- 2) Enter the Passcode: **X X X X**
- 3) Wait until the LED displays “P”
- 4) Press **#**

**CAUTION:
DO NOT REVEAL YOUR PASSCODE TO UNAUTHORISED PERSONS**

Table of Contents

Section	Page
Quick guide to arming and disarming	
IMPORTANT – PLEASE READ THIS SECTION FIRST.....	2
Features, Functions & Benefits.....	3
Examples of How It Works.....	4
Main Components & Optional Accessories.....	5
Easy Do-It-Yourself Installation.....	6
Simple Step-by-Step Programming.....	8
User Guide for Easy Operation.....	13
TEST mode.....	15
Sensor battery change.....	17
Advanced Programming.....	18
Optional exterior sirens.....	20

IMPORTANT – PLEASE READ THIS SECTION FIRST

This is a Do-It-Yourself WIRELESS ALARM SYSTEM designed to help users protect themselves, their loved ones and their property and personal possessions. Please read through the important information below before getting started with the WIRELESS ALARM SYSTEM.

- Carefully follow the instructions in this manual when installing, setting up and programming the WIRELESS ALARM SYSTEM
- Take special notice of any specified notes or bullet points throughout this manual
- Please take the following precautionary measures while handling and situating the WIRELESS ALARM SYSTEM:
 1. Keep the WIRELESS ALARM SYSTEM away from water or damp areas
 2. Do not install the WIRELESS ALARM SYSTEM in direct sunlight or near extreme heat
 3. Do not install the WIRELESS ALARM SYSTEM near strong electrical current, magnetic force or metal support beams
 4. Avoid dropping the WIRELESS ALARM SYSTEM or placing it in an area with strong vibration
 5. Do not disassemble the product – Doing so will void the Warranty
 6. Use only the supplied AC Adaptor
 7. The rechargeable backup battery MUST be a 9-volt Ni-Cad or Ni-Mh rechargeable battery
Do not use non-rechargeable batteries
 8. To better understand the WIRELESS ALARM SYSTEM and its performance capabilities, users should test the entire system every one to two weeks for continued correct operation
- The WIRELESS ALARM SYSTEM is considered a “Local Alarm” in most countries, which may qualify for certain discounts on homeowner’s insurance. Please ask your insurance company or authorized insurance agent for more details. To qualify, this system may need to be professionally installed or inspected.
- If you do not feel confident about installing or programming this security system, please seek advice or professional installation.

NOTE: The Manufacturer shall have no liability for any death, personal and/or bodily injury and/or damage to property or other loss, whether direct, indirect, incidental, consequential or otherwise, based on a claim that the Product failed to function.

FEATURES, FUNCTIONS & BENEFITS

NO MONTHLY FEES WHATSOEVER	<ul style="list-style-type: none"> • Self-monitoring system does not require monitoring service • No contract, no credit check, no monthly fees
Do-It-Yourself Wireless System	<ul style="list-style-type: none"> • No hard-wired installation necessary (depending on exterior siren used) • Practically effortless screw-in or double-sided tape mounting • Up to 300 ft. range covers entire house, apartment, small business, etc.
Easy Setup & Operation	<ul style="list-style-type: none"> • Simple programming & operation • Very user-friendly features & functions • All setup & programming options are password-protected
Pocket Remote Control	<ul style="list-style-type: none"> • Allows easy arming, disarming & emergency calls directly from pocket-sized remote control (attachable to any key chain – not supplied)
“Away” & “At-Home” Security Modes	<ul style="list-style-type: none"> • Various programming & arming options for “Away” or “At-Home” security
Arming Delays for Exiting & Entering Alarmed Zone	<ul style="list-style-type: none"> • Allows users time to exit or enter alarmed zone • Countdown beeps alert users before arming
Built-in Loud Siren	<ul style="list-style-type: none"> • Immediately deters intruders • Alerts users, neighbours & others of an alarm activation
Auto-Dialler	<ul style="list-style-type: none"> • Automatically calls up to six specified phone numbers upon alarm activation & plays your pre-recorded Alarm Notification Message • Allows call recipients to respond as necessary • Cannot be fooled by busy signals, answering machines or voicemail
Remote Operation via Telephone	<ul style="list-style-type: none"> • Call in to arm, disarm, monitor or speak from any external telephone – anywhere in the world • Immediately respond to an Alarm Notification Call
Exclusive Integrated Speakerphone	<ul style="list-style-type: none"> • Allows for advanced 2-way voice communication • Monitor situation or speak directly to an intruder • Converse with emergency personnel during an on-site crisis situation
One-button Emergency Call	<ul style="list-style-type: none"> • Make on-site emergency calls directly from Pocket Remote or Keypad • Call out to emergency personnel during on-site panic or crisis situations
Entry Door Chimes when system is disarmed	<ul style="list-style-type: none"> • Signals whenever door/window is opened (when MDT door sensors used) • Alerts whenever children or others enter or exit via a door opening
Rechargeable Backup Battery (Ni-Cad battery)	<ul style="list-style-type: none"> • Backup power for Control Panel in the event of a power outage
Long-Life Sensor Batteries	<ul style="list-style-type: none"> • Door/Window Sensors utilize replaceable 9-volt, & Pocket Remotes contain replaceable long-life batteries • Control Panel notifies users of any low-battery situation
Battery Low Alert	<ul style="list-style-type: none"> • Alerts users of low battery situations on Sensors/Transmitters
“Memory Chip” Stores All Programmed Data	<ul style="list-style-type: none"> • EEPROM retains all programmed settings for each User Function, even during power outages
Completely Expandable & Customizable	<ul style="list-style-type: none"> • Expandable to an unlimited amount of Sensors/Transmitters including additional & optional Wireless Door/Window Sensors, Wireless PIR Motion Detectors, Pocket Remotes, Wireless Smoke Detector, Wired Indoor/Outdoor Weather-resistant Loud Siren, Solar Powered Outdoor Siren and more
One Year Warranty	<ul style="list-style-type: none"> • Covers factory defects/malfunctions on all parts and accessories (except batteries) for one full year under normal usage (see Warranty)

EXAMPLES OF HOW IT WORKS

Burglary Example

- 1) Intruder triggers alarm
- 2) Control panel and any optional outside siren sounds
- 3) System immediately dials the first programmed phone number of your choice (your cell phone, office phone, spouse, family member, friend, neighbour, emergency, etc.)
- 4) System plays your pre-recorded Alarm Notification Message stating an alarm activation, then voice-prompts for a response (via your own pre-recorded message) while allowing the call recipient to monitor, listen in and even speak to the intruder
- 5) If System gets no response, it calls the next phone number of your choice, then repeats #4 above and continues the cycle until it gets a response (for up to nine attempts user programmable)

Emergency Call Example

- 1) A panic or crisis situation happens within wireless signal range of the Control Panel
- 2) User presses the PANIC button on the Pocket Remote or Control Panel
- 3) The System sounds the siren(s)
- 4) System immediately dials the first programmed phone number of your choice (your cell phone, office phone, spouse, family member, friend, neighbour, emergency, etc.)
- 5) System plays your pre-recorded Alarm Notification Message stating an alarm activation, then voice-prompts (via your own pre-recorded message) for a response, allowing the call recipient and user to converse via the integrated 2-way speakerphone
- 6) If System gets no response, it calls the next phone number of your choice, then repeats #5 above and continues the cycle until it gets a response (for up to nine attempts user programmable)

MAIN COMPONENTS & OPTIONAL ACCESSORIES

Components included

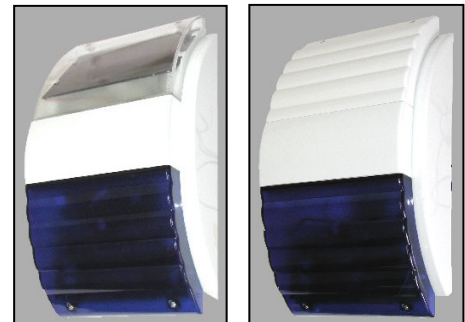
- 1 x Control Panel with built-in Auto-Dialler & built-in siren transmitter
- 1 x Ni-cad battery back-up for the control panel
- 2 x Wireless PIR Motion Detector with batteries
- 2 x Wireless Pocket Remotes
- 1 x Telephone Line
- 1 x Adaptor
- Mounting Screws/Hardware
- User Manual



Optional Add-on Accessories

- Wireless Door/Window Sensor – MT-01
 - Used for doors and windows to alert system of burglary attempt, or any entering or exiting of the alarmed zone
 -
- Wireless PIR Motion Detector – IR-02
 - Used to detect motion in any room or open area, while immediately alerting system
 -
- Wireless Pocket Remote – RM-03
 - Used to Arm and Disarm system, and to make PANIC/EMERGENCY calls during crisis situations

- Wireless Exterior Solar Powered Siren w/ Strobe – SG-01
 - Powered by sunlight with battery back-up, this siren is used outdoors to create piercing audible siren and visual flashing strobe light immediately upon alarm activation
 -
- Wireless Exterior AC/DC Powered Siren w/ Strobe – RS-01
 - Powered by a 12volt mains adaptor with battery back-up, this siren is used outdoors to create piercing audible siren and visual flashing strobe light immediately upon alarm activation



NOTE: An unlimited amount of sensors/detectors can be used with the WIRELESS HOME ALARM SYSTEM. This allows you to expand and customize your security system as needed.

EASY DO-IT-YOURSELF INSTALLATION

Setup and installation of the WIRELESS ALARM SYSTEM is practically effortless, because all of the sensors/detectors are wireless. If you follow the instructions carefully, you should have no problem setting up and installing this system and adding additional and optional accessories as needed.

Please keep in mind that the factory default settings are specifically set up to simplify the installation and programming. Although there are advanced setup and programming options (see the Advanced Programming section on page 18), they are NOT NECESSARY unless there are two similar systems within wireless signal range of each other, or if you desire to change the Site Code or Zones (see information below).

Ready-to-Go Default Site Code & Zone Settings

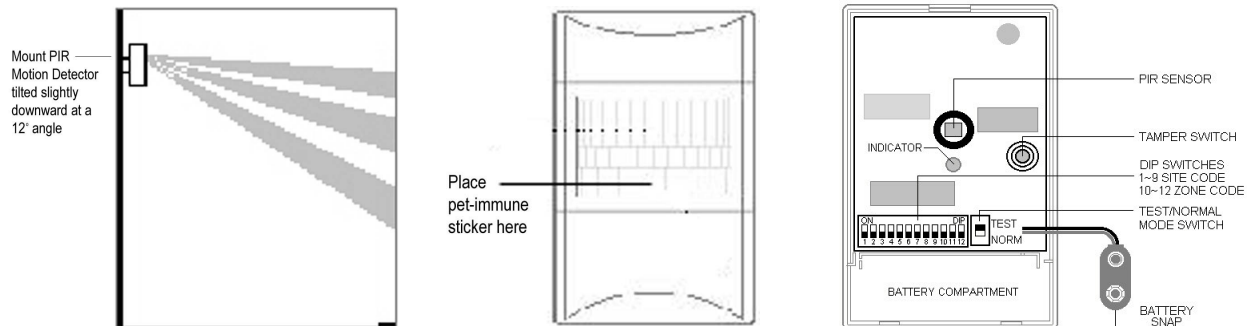
NOTE: The two PIR's movement sensors are factory set, one for zone 1 and the other for zone 2 and are suitably labeled. Zone 1 is for entry/exit areas and zone 2 is for living areas. See page 19 for more details.

These settings do not have to be changed unless: 1) The Site Code default was incorrect and does not match with the other Site Code settings; 2) There are two similar systems within wireless range of each other; 3) Unless you wish to change the factory pre-set code to one of your own choice for greater security (recommended). The procedure for changing the Site Code and Zone Settings can be found in the Advanced Programming section on page 18.

If no changes are necessary or desired, continue with the easy installation process that follows.

Wireless PIR Motion Detector Installation (PIR – passive infrared)

Mount the Wireless PIR Motion Detector utilizing the included mount and screws. Please follow the diagram and details listed below.

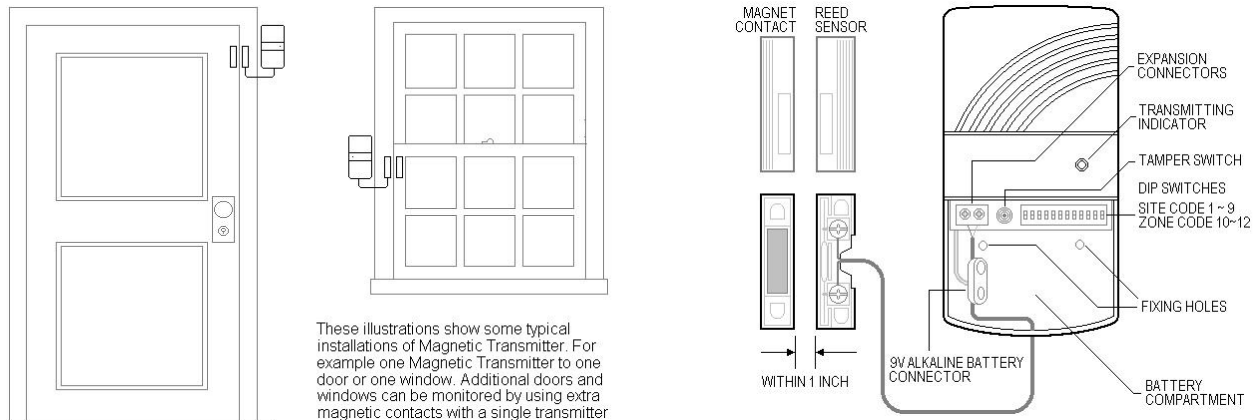


- Install a 9-volt battery and place the PIR Motion Detector, indoors only, on a wall in corner of room or desired location (pole, etc.) It is best to point them into a room facing away from windows. Hidden metal pipes, support structures will limit operation.
- Tilt the PIR Motion Detector facing slightly downward toward open area of room (approximately 12° angle)
- If you have a pet, place the included Pet-Immune Sticker on the lowest portion of the detector screen
- The detection range covers about a 120° angle horizontally and distance is approximately 36-ft.

IMPORTANT: Set the NORM/TEST switch to “NORM” for normal use (see diagram above right). The default is set to “TEST” for positioning and testing purposes. The battery will have a short life if left in ‘TEST’. To check if the switch is in ‘TEST’, after the cover has been fitted, is to see if the LED lights when the sensor sees movement – it should not in ‘NORM’.

Wireless Door/Window Sensor Installation (MDT – magnetic door trigger) – optional accessory

Mount each Wireless Door/Window Sensor using the included screws or double-sided tape (**tape not recommended for permanent mounting**). Please follow the diagram and details below.

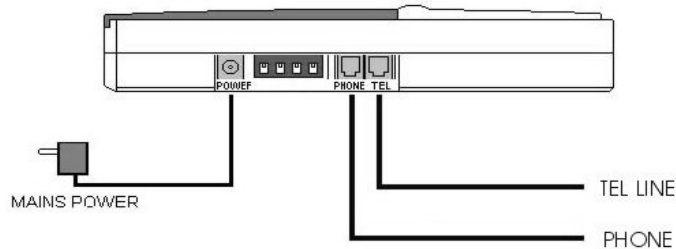


- You will need one Contact with Transmitter, one Magnetic Contact, and the included screws or double-sided tape for each Door/Window Sensor setup
- Contacts should have a gap between 0.4 inch ~ 1.2 inch
- Before permanently mounting, check for correct operation especially if door or frame is metal (mounting the transmitter onto a metal frame will possibly result in no operation)
- Stretch out cord for best reception
- Install a 9-volt battery

Control Panel Installation

Follow the step-by-step instructions below in accordance with the diagram. Please note that it is preferable to centralise the Control Panel within the property to be alarmed to achieve the best wireless range and functionality. It also has to be close to both a power supply and a telephone jack point. The cables supplied with the control panel are 2 metres. The Control Panel can be mounted on a wall by utilizing standard screws and the screw slot on the back of the Control Panel along with the screw hole under the battery cover. Otherwise, it can just simply sit on a convenient table.

- 1) *Install the supplied 9 volt Ni-Cad rechargeable battery (DO NOT USE NON-RECHARGABLE BATTERY)
- 2) Connect one end of the included telephone line into the LINE jack on the Control Panel, and the other end into a telephone jack on the wall.
- 3) Connect a telephone, if you wish, to the PHONE jack on the Control Panel.
- 4) Connect the included Adaptor to the POWER jack on Control Panel, and plug into an electrical outlet.



***NOTE:** The Control Panel must be set to **TEST Mode** (see pages 14 & 15) when mounting the Control Panel, replacing the rechargeable backup battery or wiring the optional exterior siren, because the battery cover is protected by a Tamper Switch.

SIMPLE STEP-BY-STEP PROGRAMMING

The following programming instructions will take you through the entire programming in a simple step-by-step format. All programming is accomplished by using the keypad on the Control Panel. Confirmation tones (or beeps) will confirm that the programming was correct and entered, or incorrect and not entered. The confirmation tones are as follows, unless otherwise specified:

One long beep = Correct and entered

Three quick beeps = Incorrect and must be re-entered

Programming begins by pressing a Function Key, then your Passcode, and then waiting a few seconds for the proper function display to show on the LED screen. You would then enter the specific programming options as stated in each programming step. When that programming step is completed, wait until the LED display is off, followed by 3 quick beeps. Then proceed to the next programming step as desired.

Intelligent Storing Capability: The Control Panel utilizes Intelligent Storing Capability to store programming information (data). **Once you have entered the programming data for any function, the Control Panel will automatically store that data within a few seconds. There is no need to press “store” or “enter” to save it.** Once programmed, the data will remain secure in the unit’s memory until changed by a user, even in the event of a power failure or loss.

Keep in mind that you can, at any time, change the programmed settings of any function. Just follow the programming steps of the particular function you would like to change.

Step 1 – Program User Passcode (Default: 1 2 3 4)

The factory default User Passcode is “1 2 3 4” and should be changed for higher security. To change the User Passcode, follow the steps below.

- 1) Press the **P** key
- 2) Enter the default Passcode: **1 2 3 4**
- 3) Wait until the LED displays “P”
- 4) Press the ***** key
- 5) Enter your new 4-digit Passcode
- 6) Within a few seconds you will hear a confirmation tone, and the information is stored (One long beep = correct entry / Three quick beeps = incorrect entry must be re-entered)

NOTE: If you forgot your Passcode, or want to reset the system to its original defaults, follow the procedure below to perform a Global Reset (resets Passcode and all programming functions to the factory defaults):

- 1) Unplug the Power Adaptor and remove the Rechargeable Backup Battery
 - 2) Press and hold the ***** and **#** keys at the same time
 - 3) While holding down the keys, plug in the Power Adaptor to power unit on
 - 4) After one second, the unit will beep to confirm that the Global Reset was successful
 - 5) The Passcode and all User Functions will be set to the factory defaults
- If Global Reset was unsuccessful, repeat the same procedure above
 - For security reasons, you don’t want unauthorized persons from knowing how to do a Global Reset, so please keep this manual in a safe and hidden place.

Step 2 – Program Auto-Dialler Telephone Numbers

This function allows for up to six phone numbers to be entered into the Auto-Dialler, each of which will be called in sequence in the event of an alarm activation. You don't have to enter all six, just those required.

NOTE: In most cases, it is recommended to have the system call out to users, family members, friends, neighbours and so on, rather than to emergency numbers such as the police. This allows a call recipient to respond to the Alarm Notification Call and decide whether it may be a false alarm or not. Then the call recipient can call the police or other emergency assistance if deemed necessary.

- 1) Press the **P** key
- 2) Enter your new (or default) Passcode: **x x x x**
- 3) Wait until the LED displays "P"
- 4) Press the **1** key to program the first phone number to be dialed (For each of the second through sixth phone numbers, repeat this entire programming stage and enter **2** ~ **6** at this step)
- 5) Enter the phone number of choice, up to 16 digits including pauses (For dialing out on a PBX system or similar, you can add a "pause" to the phone number by entering ***** within the number. For example, 9*091234567 would dial 9 for an outside line, then pause for 2 seconds, then dial 09, the area code and then the number)
- 6) Within a few seconds you will hear a confirmation tone, and the information is stored (One long beep = correct entry / Three quick beeps = incorrect entry must be re-entered). The LED will flash the programmed phone number for confirmation.

Step 3 – Program Automatic Dialing Cycles (Default: 2 cycles)

This function is for users to program the amount of times the system will dial the entire sequence of programmed phone numbers. The factory default is set up for 2 times (2 cycles). You can program it for up to 9 cycles.

- 1) Press the **P** key
- 2) Enter your new (or default) Passcode: **x x x x**
- 3) Wait until the LED displays "P"
- 4) Press the **7** key (Command Code for this function)
- 5) Enter **1** ~ **9** depending on the amount of cycles you desire
- 6) Within a few seconds you will hear a confirmation tone, and the information is stored (One long beep = correct entry / Three quick beeps = incorrect entry must be re-entered)

Step 4 – Program Zone 1 Entry/Exit Delay Time (Default: 20 seconds)

This function is for users to enter the Zone 1 entry/exit delay time during Full Arming or Partial Arming Mode. The factory default is 20 seconds. You can program from 0 ~ 90 second entry/exit delay.

- 1) Press the **P** key
- 2) Enter your new (or default) Passcode: **x x x x**
- 3) Wait until the LED displays "P"
- 4) Press the **8** key (Command Code for this function)
- 5) Enter **0** ~ **9** depending on the amount of delay time you desire (This number will be automatically multiplied by 10 for the actual amount of seconds)
- 6) Within a few seconds you will hear a confirmation tone, and the information is stored (One long beep = correct entry / Three quick beeps = incorrect entry must be re-entered)

Step 5 – Program Alarm/Siren Duration (Default: 4 minutes)

This function is for users to program the duration (length of time) that the siren will sound upon alarm activation. The factory default is 4 minutes. You can program from 0 ~ 18 minutes.

If using the optional exterior sirens (SG-01 or RS-01) match the siren duration of this control panel to that of the exterior siren.

- 1) Press the **P** key
- 2) Enter your new (or default) Passcode: **x x x x**
- 3) Wait until the LED displays “P”
- 4) Press the **9** key (Command Code for this function)
- 5) Enter **0** ~ **9** (This number will be automatically multiplied by 2 for the actual amount of minutes. For example, 8 will actually equal 16 minutes) depending on the length of time you want the siren to sound (Entering “0” turns the Siren feature off)
- 6) Within a few seconds you will hear a confirmation tone, and the information is stored (One long beep = correct entry / Three quick beeps = incorrect entry must be re-entered)

Step 6 – Program Remote Call-In Ring Cycle (Default: 6 Rings)

This function is for users to program the amount of rings before the system picks up during a Remote Call-In (calling in to system from anywhere in the world to arm, disarm, monitor or speak). The factory default is 6 rings, but you can program up to 9 rings.

- 1) Press the **P** key
- 2) Enter your new (or default) Passcode: **x x x x**
- 3) Wait until the LED displays “P”
- 4) Press the **0** key (Command Code for this function)
- 5) Enter **0** ~ **9** depending on the amount of rings you want before the system automatically picks up (Entering “0” turns Remote Call-In feature OFF)
- 6) Within a few seconds you will hear a confirmation tone, and the information is stored (One long beep = correct entry / Three quick beeps = incorrect entry must be re-entered)

Step 7 – Site Code Learning from Pocket Remote

This function allows the Control Panel to “learn” the security system Site Code. The Pocket Remote and all detectors must be set with the same Site Code which has a factory pre-set code. You can use the factory default settings or you can change them to one of your own choice for greater security (recommended). If changing the factory Site Code, carry out the instructions on page 18 ‘Advanced Programming’ before learning the Site Code to the control panel. Please note the Pocket Remote is the only component in the system for Site Code learning. Do not use sensors for Site Code Learning.

- 1) Press the **L** key
- 2) Enter your new (or default) Passcode: **x x x x**
- 3) Wait until the LED displays “L”
- 4) Press the **#** key (Command Code for this function)
- 5) Push any button on the Pocket Remote
- 6) Within a few seconds you will hear a confirmation tone, and the information is stored (One beep = correct entry / Three quick beeps = incorrect entry must be re-entered)

Step 8 – Ring Back Tone Learning

This function allows the Control Panel to “learn” the unique telephone ring back specific to user’s country or locality. This is a very simple procedure, but it is extremely important to the entire operation of the Auto-Dialler feature.

- 1) Make sure that a telephone number has been programmed into phone number position 1 before beginning this procedure (see Step 2)
- 2) Make sure that the person on the other end of that telephone number DOES NOT pick up the telephone during this procedure
- 3) Press the **L** key
- 4) Enter your new (or default) Passcode: **x x x x**
- 5) Wait until the LED displays “L”
- 6) Press the ***** key (Command Code for this function)
- 7) The system will dial the telephone number in position 1 automatically – we suggest the person receiving the call is notified that you are setting the system up.
- 8) The system will emit one beep tone to confirm that the Ring Back Tone Learning has been completed successfully / Three quick beeps = incorrect entry must be re-entered.

Step 9 – Record Alarm Notification Message

This function is for users to record the Alarm Notification Message that will play during an Alarm Notification Call. The total recording time is 20 seconds.

It is best to use this message to notify that there has been an alarm activation, and also to specify exactly how the call recipient can respond (listen in, monitor, speak, control auto-dialing or replay message). The following script can be used as a guide on how to word your message. **Make sure that you speak clearly and steadily, approximately ten inches (25cm) from the microphone. Keep in mind that you have a maximum of 20 seconds recording time.**

Message Script suggestion:

“This is (your name). An alarm has been activated at (address). After the tone, press 4 to listen, 5 to speak, 6 to dial next number, 7 to replay this message, and 8 to stop dialing and disconnect.”

- 1) Press the **P/R** key
- 2) Enter your new (or default) Passcode: **x x x x**
- 3) Wait until the LED displays “|”
- 4) Press the **#** key (Command Code for this function)
- 5) Begin recording the message for up to 20 seconds
- 6) At the end of the 20 seconds you will hear a confirmation tone, and the message is stored (One long beep = correct entry / Three quick beeps = incorrect entry must be re-entered)
*To replay the message, repeat steps 1, 2 and 3, then press ***** to hear the message.

Step 10 – Program Built-In Siren (Default: ON)

This function allows the built-in control panel siren to be turned on or off in the event of an alarm situation. The default mode is ON for the built-in siren.

- 1) Press the **S** key
- 2) Enter your new (or default) Passcode: **x x x x**
- 3) Wait until the LED displays “S”
- 4) Press the **2** key to turn siren OFF, or enter the **3** key to turn siren ON (default mode is ON)
- 5) Within a few seconds you will hear a confirmation tone, and the information is stored (One long beep = correct entry / Three quick beeps = incorrect entry must be re-entered)

Step 11 – Program Door Chime Function (Default: ON)

When the system is in the unset state, the control panel will sound ‘door chimes’ whenever any sensor allocated to Zone 1 is activated. Zone 1 is usually door trigger sensors, so you hear ‘door chimes’ if someone opens a door to enter or exit. This handy feature is very useful if you have young children. This function allows the door chime sound to be turned on or off. The default mode is OFF for the door chime sound.

- 1) Press the **S** key
- 2) Enter your new (or default) Passcode: **x x x x**
- 3) Wait until the LED displays “S”
- 4) Press the **4** key to turn door chime OFF, or the **5** key to turn door chime ON (default mode is OFF)
- 5) Within a few seconds you will hear a confirmation tone, and the information is stored (One long beep = correct entry / Three quick beeps = incorrect entry must be re-entered)

Step 12 – Check Programmed Settings

This function is used to check the programmed settings. These are one-key operations utilizing the LED to display the current setting.

- To check STORED TELEPHONE NUMBERS: Press any of the **1** ~ **6** keys and the LED will display the number
- To check AUTOMATED DIALING CYCLES: Press the **7** key and the LED will display the stored amount of cycles
- To check ENTRY/EXIT DELAY TIME: Press the **8** key and the LED will display the amount of seconds
- To check the ALARM/SIREN DURATION: Press the **9** key and the LED will display the total amount of minutes
- To check REMOTE CALL-IN RING CYCLE: Press the **0** key and the LED will display the number of ring cycles
- To check the LAST ACTIVATED ZONE: Press the **#** key and the LED will display the last Zone activated from the Alarm Activation Memory
- To check LOW BATTERY STATUS: Press the ***** key and the LED will display the Zone in which there is a sensor/detector with a low battery

USER GUIDE FOR EASY OPERATION

Operating the WIRELESS ALARM SYSTEM is simple, thanks to the Pocket Remote and the user-friendly operating procedures. Some functions can be operated utilizing the Pocket Remote, keypad on the Control Panel, or from anywhere in the world via the intuitive Remote Call-In feature which allows users to operate the system from any telephone. The following operating instructions will help you to fully benefit from the many features and functions of the WIRELESS ALARM SYSTEM.

ARMING

This function is used to arm the entire system (all Zones) and all sensors/detectors. It is best to use Full Arming Mode whenever leaving the premises.

Using Pocket Remote –

- 1) Press the **MODE** button on the Pocket Remote
- 2) Within a few seconds you will hear one chirp as a confirmation and the setting is accomplished
- 3) All zones excluding Zone 1 will be armed immediately. The control panel will then start to beep the countdown for the exit delay for Zone 1. If you wish to re-enter any area of the premises other than Zone 1, you have to disarm the alarm to avoid activation

Using the keypad on the Control Panel –

- 1) Press the **S** key
- 2) Enter your new (or default) Passcode: **x x x x**
(One beep = correct entry / Three quick beeps = incorrect entry must be re-entered)
- 3) Wait until the LED displays “S”
- 4) Press the **1** key (Command Code for this function)
- 5) Within a few seconds after the confirmation tone you will hear one beep, and the setting is accomplished
- 4) All zones excluding Zone 1 will be armed immediately. The control panel will then start to beep the countdown for the exit delay for Zone 1. If you wish to re-enter any area of the premises other than Zone 1, you have to disarm the alarm to avoid activation

PARTIAL ARMING

This function is used to arm only the perimeters of the system (Zones 2 & 3 are disabled). It is best to use Partial Arming Mode as an “At-Home” security mode whenever remaining on the premises. This allows you to roam within your alarmed premise (home, office, etc.) without activating the PIR Motion Detectors, while the perimeters (doors, windows, etc.) will remained armed.

Partial Arming Mode can only be entered using the keypad on the Control Panel as follows:

- 5) Press the **S** key
- 6) Enter your new (or default) Passcode: **x x x x**
(One beep = correct entry / Three quick beeps = incorrect entry must be re-entered)
- 7) Wait until the LED displays “S”
- 8) Press the **#** key (Command Code for this function)
- 9) Within a few seconds after the confirmation tone you will hear one beep, and the setting is accomplished

NOTE: When entering Full Arming & Partial Arming Modes, the unit will emit countdown beeps after the confirmation tone.

DISARMING

This function is used to disarm the entire system (all Zones) and all sensors/detectors.

Using Pocket Remote –

- 1) Press the **MODE** button on the Pocket Remote
- 2) Within a few seconds you will hear three chirps as a confirmation, and the setting is accomplished

Using the keypad on the Control Panel –

- 1) Press the **S** key
- 2) Enter your new (or default) Passcode: **x x x x**
(One beep = correct entry / Three quick beeps = incorrect entry must be re-entered)
- 3) Wait until the LED displays “S”
- 4) Press the **0** key (Command Code for this function)
- 5) Within a few seconds after the confirmation tone you will hear three beeps, and the setting is accomplished

ENTER EMERGENCY/PANIC ALARM

This function is used to activate the alarm during an on-site emergency or panic situation.

Using Pocket Remote –

- 1) Press the **PANIC** button on the Pocket Remote
- 2) The system will immediately activate the alarm, sound the siren and immediately begin dialing the programmed phone numbers

Using the keypad on the Control Panel –

- 1) Press the **PANIC** button on the control panel.
- 2) The system will immediately activate the alarm, sound the siren and immediately begin dialing the programmed phone numbers

NOTE: This button can also be used to enter a 2-way speakerphone call during an incoming phone call (**never to be used for outgoing phone calls**).

Enter Test Mode

This function is used to test the entire system (all Zones) and all sensors/detectors. This will ensure that the sensors/detectors are installed within wireless range of the Control Panel, and that they are working properly.

NOTE: Testing of your system should be done on a regular basis to ensure that the system and the sensors/detectors are working properly. This will also help you to gain a better understanding of the capabilities of the system, and should help to eliminate any malfunction during a crisis situation.

To Enter Test Mode using the keypad on the Control Panel –

- 2) Press the **S** key
- 3) Enter your new (or default) Passcode: **x x x x**
(One beep = correct entry / Three quick beeps = incorrect entry must be re-entered)
- 4) Wait until the LED displays “S”
- 5) Press the ***** key (Command Code for this function). You will hear a “ding dong” as confirmation.
- 6) Activate each of the sensors/detectors (one at a time)
- 7) The Control Panel will emit beep sounds as each sensor/detector is activated to confirm proper operation. The number of beeps indicates the corresponding Zone of the sensor/detector.

NOTE: A doorbell sound indicates a low battery in the sensor/detector.

TO EXIT TEST MODE (and enter Disarming Mode) you must use the keypad on the Control Panel as follows:

- 1) Press the **S** key
- 2) Enter your new (or default) Passcode: **x x x x**
(One beep = correct entry / Three quick beeps = incorrect entry must be re-entered)
- 3) Wait until the LED displays “S”
- 4) Press the **0** key (Command Code for this function)
- 5) Within a few seconds after the confirmation tone you will hear three beeps, and the setting is accomplished

Responding During an Alarm Notification Call

This function is used for call recipients to respond to an Alarm Notification Call. Call recipients will have the option to monitor/listen in (via built-in microphone on Control Panel), speak (via built-in 2-way speakerphone feature), have the system hang up and dial the next programmed phone number, have the system stop dialing all programmed phone numbers, or replay the Alarm Notification Message. This can all be accomplished by pressing specified keys on any telephone keypad, from anywhere in the world.

Upon an alarm activation, the Auto-Dialler will call out to each of the programmed phone numbers and play the Alarm Notification Message (as recorded by user). The call recipient’s procedure and options are as follows:

- 1) Answer the call, then wait for the pre-recorded Alarm Notification Message to finish playing
- 2) Within 10 seconds after you hear the confirmation tone, press a key for the desired function as follows:
 - Press **4** to Monitor/Listen in
 - Press **5** to Speak via 2-way Speakerphone
 - Press **6** to have system Hang Up and Dial Next Programmed Phone Number
 - Press **7** to Replay the Alarm Notification Message
 - Press **8** to have system Stop Dialing all Programmed Phone Numbers and Disconnect Call

Remote Access from Any Outside Telephone

This function allows users to call in from anywhere in the world to access the system. Users calling in will have the ability to enter the system into Full Arming Mode or Disarming Mode, as well as monitor/listen in (via built-in microphone on Control Panel) or speak (via built-in 2-way speakerphone feature). This can all be accomplished by pressing specified keys on any telephone keypad, while calling in from anywhere in the world.

The user must call into the system, and the system should pick up in a certain amount of rings as specified by the Remote Call-In Ring Cycle (programmed earlier). The caller's procedure and options are as follows:

- 1) Call the phone number that is connected to the Control Panel
- 2) Wait for the system to answer in correct amount of rings (as specified while programming Remote Call-In Ring Cycle)
- 3) When you hear the confirmation tone, enter your new (or default) Passcode: **x x x x**
(If you enter an incorrect Passcode, you will hear three beeps and the telephone line will hang up)
- 4) Within 10 seconds after you hear the confirmation tone, press a key for the desired function as follows:
 - Press **1** to Enter Full Arming Mode (Confirmation = one beep)
 - Press **0** to Enter Disarming Mode (Confirmation = two beeps)
 - Press **#** to Enter Partial Arming Mode (Confirmation = three beeps)
 - Press **4** to Monitor/Listen in (Confirmation = one long beep)
 - Press **5** to Speak via 2-way Speakerphone (Confirmation = one long beep)
 - Press **8** to Disconnect (Confirmation = one long beep)

LED Indicators on Control Panel

The table below shows the light/flash representations of each LED Indicator on the Control Panel, depending upon the status of the system.

LED Indicator	Light/Flash Representation
AC POWER	<ul style="list-style-type: none">• Steady light when power is normal
TEL LINK	<ul style="list-style-type: none">• Steady light when telephone line is linking
RING	<ul style="list-style-type: none">• Flashes when there is an incoming call
LINE CUT	<ul style="list-style-type: none">• Steady light when the telephone line is cut
RF LINK	<ul style="list-style-type: none">• Flashes when receiving signals from sensors/detectors/transmitters• Slow flashes represent Low Battery of sensor/detector
MODE/MEMO	<ul style="list-style-type: none">• Steady light when keypad is in operation• Flashes twice per second when system is in Full Arming Mode• Flashes once per second when system is in Partial Arming Mode• LED off when system is in Disarming Mode• Flashes once per 2 seconds when system is in Testing Mode


Alarm Situations & System Notifications

The following table represents the various types of alarm situations and system notifications, as well as the probable cause for each.

Alarm Situation	System Notification	Probable Cause
Burglary	Alarm & Loud Siren activate	Intrusion or break-in at premises
Panic/Emergency Call	Alarm & Loud Siren activate	User has a crisis situation at premises
Line Cut	LINE CUT LED lights	Telephone line has been disconnected or cut
Tamper	Alarm & Loud Siren activate	Someone has tampered with Control Panel or one of the sensors/transmitters
Low Battery	RF LINK/LOW BAT LED flashes and control panel gives slow beeps	One of the sensors/transmitters in the system has a low battery


To change a sensor battery and low battery notification

When one of the sensors/transmitters in the system has a low battery, the control panel will beep (one beep per 3 seconds) to remind the user, and the RF LINK/LOW BAT LED will flash.




- **To check the Zone of the Sensor/Transmitter with a low battery, press the  key. The LED will display the Zone number that the sensor operates on. Replace the battery right away.**
- **To change a sensor battery, enter 'TEST' mode before removing the sensor cover to deactivate the sensors tamper switch as detailed on page 15. Then remove the cover, replace the battery, refit the cover and exit 'TEST' mode.**

Alarm Activation Memory

This feature records the last Zone that was activated during an Alarm Activation. When disarming system after any Alarm Activation, the Control Panel will beep (one beep per second) to remind the user that an alarm has been activated, and the MODE/MEMO LED lights steady.

- **To shut off the warning beeps, push any key on the keypad.**
- **To check the last Zone activated, press the  key. The LED will display the last activated Zone number as follows:**

Digit "1" = Zone 1
Digit "2" = Zone 2
Digit "3" = Zone 3
Digit "4" = Zone 4
Digit "5" = Zone 5
Digit "6" = Zone 6
Digit "7" = Tamper or Panic from wireless accessories
Digit "9" = Panic button or Tamper on Control Panel was activated

- **To clear the Alarm Activation Memory, follow the steps below:**
 - 1) Press the  key
 - 2) Enter your new (or default) Passcode: 
 - 3) Wait until the LED displays "P"
 - 4) Press the  key (Command Code for this function)
 - 5) The LED will display "0" "0" to confirm the programming is successful

ADVANCED PROGRAMMING

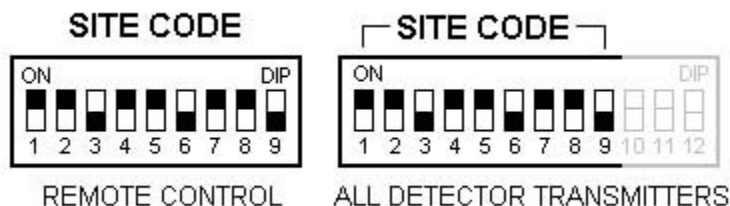
This section is for advanced programming options and should only be used in the following cases:

- The Site Code default was incorrect and does not match with the other Site Code settings
- There are two similar systems within wireless signal range of each other
- You would like to change the Site Code or Zones for extra security or other reasons

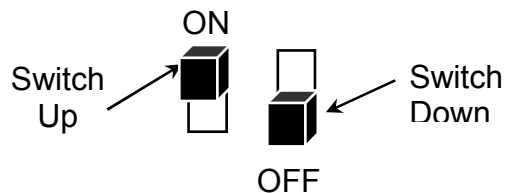
Setting the Site Code

The Site Code is the “code” or “frequency” that this particular system will operate on. The factory default Site Code setting is fine for most users, but it can be changed if necessary.

The Site Code utilizes DIP Switches 1 through 9 (see figure below) to create a unique code, using combinations of ON and OFF that the Control Panel and all sensors/transmitters and accessories must match. You can create any Site Code that you desire, as long as all components use the same exact code. Figure 1 shows a Site Code example setting for the Pocket Remotes and all sensors/transmitters. If you change the Site Code, you must re-program the Control Panel to match the same code. This can be accomplished by following the procedure in “Step 7 – Code Learning from Pocket Remote” on page 10 in the Simple Step-by-Step Programming section.



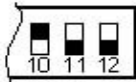
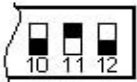

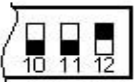
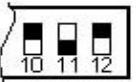
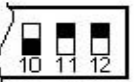
Please ensure the dip switches are in the right position when selecting Site and Zone Codes



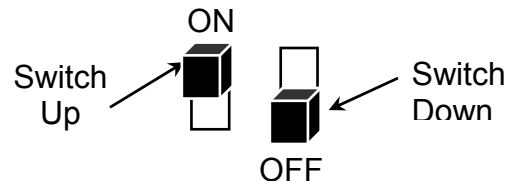
Setting the Sensors/Transmitters to Specific Zones

This system has Six “Zones” plus a Panic/Tamper Zone, each of which can be triggered during various alarm situations (see Active Zones below). These Zones can help you to pinpoint which sensor/transmitter was triggered in an alarm situation or system notification. The factory default Zone settings are fine for most users, but can be changed if necessary.

The wireless sensors/transmitters use twelve DIP Switches to set the Site Code and Zones (1-9 for Site Code; 10-12 for Zone). The settings for switches 10 through 12 will determine the Zone that a sensor will trigger when an alarm is activated, battery is low and so on. The figure below shows the DIP Switch settings for each particular Zone.

ZONE DIP SWITCH	ZONE 1 ENTRY/EXIT	ZONE 2 INSTANT	ZONE 3 INSTANT	ZONE 4 INSTANT	ZONE 5 INSTANT	ZONE 6 24 HOUR
10	ON	OFF	ON	OFF	ON	OFF
11	OFF	ON	ON	OFF	OFF	ON
12	OFF	OFF	OFF	ON	ON	ON
ZONE CODE SETTINGS						

Please ensure the dip switches are in the right position when selecting Site and Zone Codes



Active Zones

The table below shows which zones are active in the various modes that the system can be set to.

MODE	ZONE 1 (Entry/Exit)	ZONE 2 (Instant)	ZONE 3 (Instant)	ZONE 4 (Instant)	ZONE 5 (Instant)	ZONE 6 (24-HR, Smoke, etc.)	PANIC/TAMPER (24-HR)
Arming Mode	Active	Active	Active	Active	Active	Active	Active
Partial Arming Mode	Active	Not Active	Not Active	Active	Active	Active	Active
Disarming Mode	Not Active	Not Active	Not Active	Not Active	Not Active	Active	Active
Battery Check	Not Active	Not Active	Not Active	Not Active	Not Active	Not Active	Not Active

OPTIONAL EXTERIOR SIREN

Mongoose offers 2 exterior sirens as options to the MHA2000:-

SG-01 – Completely wireless solar powered siren and flashing strobe light

RS-01 – AC/DC powered wireless trigger siren and flashing strobe light



The SG-01 is completely self contained with no wiring whatsoever. It is powered by a solar panel which charges an internal lead acid battery as back-up. It can even maintain the charge on dull, overcast days and be in standby mode for up to 60 days with no light.

It is controlled and triggered by a radio signal from the MHA2000 control panel which, as standard, contains a wireless transmitter specifically for these sirens.



The RS-01 is controlled in the same manner as the SG-01 except the power is supplied by an AC/DC power adaptor, which is supplied with the siren, as opposed to solar power.

An internal mains power point needs to be chosen or installed near to where the siren will be mounted. Generally, a convenient place this will be inside the roof space, so an electrician will need to install a power point. Unless qualified to do so, do not attempt to carry out this work yourself.

Full instructions are supplied with each siren unit.

ACCESSORIES

The MHA2000 is fully expandable with no limit as to how many sensors or remotes are used.

PIR movement sensors should be limited to one per room unless the room is such a shape that 2 would be required to provide adequate protection.

Additional sensors can be added at any time, now or in the future.

IR-02 PIR movement sensor

MT-01 Magnetic door trigger sensor

RM-03 Remote control