We hope this product performs to your complete satisfaction. Should you have any questions or comments, please visit www.paradox.com and send us your comments.
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1.1 Features

- Built-in transceiver: supports all existing Magellan transmitters including the MG-REM2 and MG-2WPGM.
- 32 zones (any of which can be wireless or keypad zones).
- 2 on-board hardwire zone inputs. 4 zones total with ATZ.
- Supports 16 PGMs (any of which can be wireless).
- 32 users and 32 remote controls (one per user).
- In-field upgradeable:
  Update the MG5000’s firmware by connecting it to a PC via a 306USB Interface and then using the Winload software (V2.80 or higher).
- Menu-driven programming for the Installer, Master, and Maintenance codes. This enables you to program the MG5000 through a simple and easy to use interface, without the use of section numbers.
- Multiple telephone numbers for event reporting:
  Three for the monitoring station, five for personal dialing and one for pager reporting. Up to five persons can now be contacted by the MG5000 in case of alarm.
- Calendar with daylight savings time (section [730], option [1]):
  You can now select 1 out of 18 different country groups each with its own preprogrammed local daylight savings time.
- New Sleep arming method:
  Similar to Stay arming, Sleep arming allows users to remain in a protected area, but provides a higher level of protection. For example, in a two-story house, the perimeter is protected with Stay arming. With Sleep arming, the perimeter as well as the main floor is protected (motion detectors, etc.), allowing you to roam the second floor and sleeping quarters.
- Connect up to 15 hardwire keypads on the 4-wire communication bus.
- Push button power reset:
  Convenient reset button saves time when a momentary powerdown is required as opposed to having to physically disconnect the control panel’s power cables. Press and hold the RESET switch for five seconds. The STATUS LED will start flashing. Within 2 seconds of this flashing, press the reset switch again. The panel will reset to default and restart. Also, you can reset all programmable sections to factory default values in section [950].
- Available in 433MHz or 868MHz.
- Supports Memory Key (PMC-3 and PMC-4).
- RF jamming supervision (section [700], option [5]): The control panel will report a trouble if the RF signal is being jammed.
- Supports SIA reporting format to central station.

1.2 Specifications

1.2.1 MG5000 Control Panel

- AC Power: 16Vac transformer (refer to Table 1 on page 2) with minimum 20VA rating (Rec. 40VA), 50 to 60Hz
- Battery: 12Vdc, 4Ah/7Ah
- Aux. Power:* 600mA typical, 700mA maximum, fuseless shutdown @ 1.1A
- Bell Output:** 1A, fuseless shutdown @ 3A
- PGM Outputs: PGM1/PGM2 = 150mA low-current output

1.2.2 Magellan Keypads

- Power input: Typically 9-16Vdc
- Current Consumption MG32LED: 170mA, MG10LEDV/H: 95mA, MG32LRF: 40mA
- 1 standard keypad zone
- On-board anti-tamper switch (optional)
- Maximum Range Maximum run of wire is 230m (750 feet)

Specifications may change without prior notice

* Cannot exceed 200mA for UL installations
** Cannot exceed 1A for UL installations
2.1 Location and Mounting
Before mounting the cabinet, push the five white nylon mounting studs into the back of the cabinet. Pull all cables into the cabinet and prepare them for connection before mounting the circuit board into the back of the cabinet. Select a centralized installation site on the main floor that isn’t easily accessible to intruders and leave at least 5cm (2in) around the panel box to permit adequate ventilation and heat dissipation. The installation site should be dry and close to an AC source, ground connection and telephone line connection. Avoid installation near or in the path of strong RF fields (i.e. neon lights, computers), on or near metal objects, circuit breaker boxes, air conditioners and heater ducts since they may cause interference and reduce sensitivity. Avoid installing the MG5000 in the basement.

Do not cut, bend or alter the antennas and ensure that electrical wires do not cross over the antennae as these may affect the signal reception.

2.2 Earth Ground
Connect the zone and dialer ground terminals from the control panel to the metallic enclosure and cold water pipe or grounding rod as per local electrical codes.

For maximum lightning protection, use separate earth grounds for the zone and dialer grounds as shown in Figure 2 on page 3. For UL installations, the metallic enclosure must be grounded to the cold water pipe.

2.3 AC Power
Do not use any switch-controlled outlets to power the transformer. Connect the transformer as shown in Figure 1 on page 2. Use Table 1 to determine the required transformer.

Table 1: Transformer Requirements Table

<table>
<thead>
<tr>
<th>Transformer:</th>
<th>Amseco XP-1620 16VAC 20VA (not verified by UL)</th>
<th>UL: Universal UB1640W 16.5VAC 40VA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Magellan DC Power Supply rated at:</td>
<td>1.1A</td>
<td>1.5A</td>
</tr>
<tr>
<td>Auxiliary Supply can provide a maximum of:</td>
<td>typ: 600mA, max: 700mA</td>
<td>typ: 600mA, max: 700mA</td>
</tr>
<tr>
<td>Acceptable Battery Charge Currents</td>
<td>350mA</td>
<td>350mA/700mA</td>
</tr>
</tbody>
</table>

2.4 Backup Battery
To provide power during a power loss, connect a 12Vdc 4Ah rechargeable acid/lead or gel cell backup battery as shown in Figure 1 below. Use a 7Ah battery to comply with UL fire requirements. Connect the backup battery after applying AC power. When installing, verify proper polarity as reversed connections will blow the battery fuse.

2.4.1 Battery Test
If the battery is disconnected or if the battery fuse is blown, a No/Low Battery failure will appear in the keypad’s trouble display (see Trouble Display on page 46). This trouble will also appear if the battery’s capacity is too low or if the voltage drops to 10.5V or lower while the control panel is running on the backup battery. At 8.5V or lower, the panel shuts down and all outputs close.

UL Warning:
A 12Vdc / 7Ah battery is required to comply with UL fire requirements.

Caution:
Disconnect battery before replacing the fuse.

Improper connection of the transformer may result in damage to the system.
Figure 2: Magellan MG5000 Control Panel Overview

“STATUS” LED:
Flash once every second = Normal
Flashes ON 1 second and OFF 1 second = Any trouble
Always ON = Panel is using phone line
Fast flash 8 seconds after power up = Installer lock enabled

Press and hold the RESET button for five seconds. The STATUS LED will start flashing. Within 2 seconds of this flashing, press the reset switch again. The panel will reset to default and restart.

Four pin connector can be used for quick installation of a MG5000 keypad.

AUX Power
Refer to transformer requirements on page 2 for Aux. Power Output. To connect additional wiring to auxiliary power, use the red (+) and black (-) keypad connectors. Auxiliary power will shut down if current exceeds 1.1A. If the auxiliary output is overloaded and is shut down, you must disconnect all loads from the output for at least 10 seconds before reconnecting any load back to the auxiliary output.

The “BELL” output will shutdown if the current exceeds 3A.

Warning:
Disconnect telephone line before servicing.

This equipment must be installed and maintained by qualified service personnel only.
For UL and C-UL warnings, refer to the UL and C-UL Warnings section at the back of the MG5000 Reference & Installation Manual.

Warning:
Do not cut, bend or alter the antennas and ensure that electrical wires do not cross over the antennae, as this may affect signal reception.

Warning:
Max. amount of keypads = 15 keypads
Max. current = 700 mA
Max. distance of keypad from panel = 76m (250 feet)
Max. total run of wire = 230m (750 feet)

To provide maximum lightning protection we strongly recommend having separate earth connections for the dialer and zone ground terminals.

Warning:
Exceeding this limit will overload the panel power supply and lead to complete system shutdown.

The sum of the current drawn from the BELL and AUX must be limited to 1.3A (40VA transformer strongly recommended). Exceeding this limit will overload the panel power supply and lead to complete system shutdown.

To metallic enclosure

Cold water pipe grounding

Ground clamp

AWG#14 single conductor solid copper wire

Charging and Battery test LED

To Metallic enclosure

Paradox Memory Key (PMC-3, PMC-4)

Antennas

Warning:
Never cut, bend or alter the antennas and ensure that electrical wires do not cross over the antennae, as this may affect signal reception.

Four pin connector can be used for quick installation of a MG5000 keypad.

Connection for Self-Contained Bell/Siren

Press and hold the RESET button for five seconds. The STATUS LED will start flashing. Within 2 seconds of this flashing, press the reset switch again. The panel will reset to default and restart.

For the keypad’s zone configurations, refer to page 6. If EOL is enabled: see section [706] option [2]. Also refer to Keypad Zone Connections on page 6.

Coming soon: VDMP3 plug-in voice module for voice reporting

Used for In-Field Firmware upgrade through a 306USB Direct Connect Interface. See Connecting Magellan to Winload on page 45 for details.

Warning:
Disconnect telephone line before servicing.

This equipment must be installed and maintained by qualified service personnel only.
For UL and C-UL warnings, refer to the UL and C-UL Warnings section at the back of the MG5000 Reference & Installation Manual.
Figure 3: Metal Box Installation

8x10" Metal Box Installation

For UL recommended installation, place the PCB one notch lower than the new mounting location. This applies to both types of metal boxes.

11x11" Metal Box Installation

For UL recommended installation, place the PCB one notch lower than the new mounting location. This applies to both types of metal boxes.

If you need specific dimensions, please contact Paradox Distributor Support. This type of installation is not UL recommended.
2.5 Auxiliary Power Terminals
The auxiliary power supply terminals can be used to power motion detectors, keypads and other modules or accessories in the security system. A fuseless circuit protects the power supply against current overload and automatically shuts down if the current exceeds 1.1A. If this occurs, the Maximum Auxiliary Current failure will appear in the keypad’s trouble display (see Trouble Display on page 46). Therefore, the combined current consumption of devices connected to the auxiliary power supply should not exceed 700mA. If the auxiliary output is overloaded and is shut down, you must disconnect all loads from the output for at least 10 seconds before reconnecting any load back to the auxiliary output.

2.6 Telephone Line Connection
In order to report system events to the monitoring station, you must connect the incoming telephone company wires into the TIP and RING connections of the control panel and then run the wires from T1 and R1 to the telephone or telephone system as shown in Figure 2 on page 3.

2.7 Bell Output Connection
The BELL+ and BELL- terminals power bells, sirens and other warning devices requiring a steady voltage output during an alarm. The bell output supplies 12Vdc upon alarm and can support one 30-watt or two 20-watt sirens. The bell output uses a fuseless circuit and will automatically shut down if the current exceeds 3A. When this occurs the Maximum Bell Current failure will only appear in the keypad’s trouble display (see Trouble Display on page 46) during an alarm. If the load on the BELL terminals returns to normal, the control panel will re-instate power to the BELL terminals during the next alarm. When connecting sirens, please verify correct polarity. Connect the positive lead to the BELL+ terminal and the negative lead to the BELL- terminal of the control panel as shown in Figure 2 on page 3.

If the BELL output is not being used, the Bell Disconnected failure will remain in the keypad’s trouble display (see Trouble Display on page 46). To avoid this connect a 1KΩ resistor across the BELL terminals.

For connection of a self-contained bell/siren, see Figure 2 on page 3.

2.8 Programmable Output Connections
When a specific event occurs in the system, a PGM can reset smoke detectors, activate strobe lights, open/close garage doors and much more.

2.8.1 PGMs
The Magellan MG5000 control panel includes two on-board programmable outputs (PGMs). For details on how to program PGMs, see Programmable Outputs on page 40. PGM1 and PGM2 can support up to 150mA. The PGMs are limited by the power source being used. If powered by:

- The aux terminals. The current consumption of the aux terminals cannot exceed 700mA. Therefore, whatever devices are connected to the aux terminals (i.e. modules and PGMs) cannot exceed 700mA combined. For example, if there are six modules connected to the aux terminals that are using 600mA and you wish to power the PGM using the aux terminals, the PGM’s current consumption cannot exceed 100mA.

- An external power supply. If using an external power supply, the current consumption cannot exceed 150mA for PGM1 and PGM2. If the external power supply’s current consumption limit is less than that of the PGM it is connected to, than the current consumption will not exceed the power supply’s current limit.

UL Note: The AUX terminals cannot exceed 200mA for UL installations.
2.9 Single Zone Inputs

Detection devices such as motion detectors and door contacts are connected to the control panel's zone input terminals. Figure 5 demonstrates single zone input terminal connections recognized by Magellan. Once connected, the associated zone's parameters must be defined.

Figure 5: Single Zone Input Connections

N.C. Contacts, No EOL

N.C., With EOL UL/ULC Configuration

N.O., With EOL UL/ULC Configuration

N.C. Contacts, No EOL, With Tamper Recognition

N.C., With EOL, With Tamper & Wire Fault Recognition (UL/ULC)
2.10 Advanced Technology Zone (ATZ) Connections

The ATZ feature is a software oriented feature that enables two detection devices to be installed per hardwired input terminal. Each detection device has its own zone, displays its zone status on the keypad and sends its own alarm codes. Fire zones cannot be doubled.

Figure 6: Advanced Technology Zone Connections
2.11 Fire Circuits

When a zone is programmed as a fire zone, the zone becomes normally open and requires an EOL resistor. If a line short occurs or if the smoke detector becomes active, whether the system is armed or disarmed, the control panel will generate an alarm. If a trouble occurs on a fire zone, the Fire Loop Trouble will appear in the keypad’s trouble display (see Trouble Display on page 46) and the control panel can transmit the Fire Loop Trouble report, if programmed, in section 866.

Figure 7: Fire Circuits

2.11.1 4-Wire and 2-Wire Installation:

For 4-wire installation, program the Activation Event so that the smoke detectors can be reset by pressing the [CLEAR] + [ENTER] keys for three seconds. See Event Group # 6 in the Event Description list in the MG5000 Programming Guide.

For 2-wire smoke detector installation, connect the 2-wire smoke detectors. If a line short occurs or the smoke detector activates, whether the system is disarmed, the control panel will generate an alarm. If the line is open, the “Zone Fault” trouble indication appears on the trouble display and the report code is sent to the monitoring station, if programmed. To reset 2-wire smoke detectors, press the [CLEAR] + [ENTER] keys for three seconds.
Part 3: Programming Methods

3.1 WinLoad Software for Windows
Program the Magellan Series control panels remotely or on-site using the WinLoad Software (V2.80 or higher) for Windows®. For more information, contact your local Paradox Distributor or visit our web site at paradox.com. If you are using the WinLoad software, you must program the features (see Settings for WinLoad Software on page 44). Update the MG5000’s firmware by connecting it to a PC via a 306 Direct Connect Interface and then using the Winload software. (Not investigated by UL).

3.2 Programming Using a Keypad
Use the supplied Magellan MG5000 Programming Guide to keep track of which sections were programmed and how. We recommend you read the entire manual before you begin programming.

### How Do I Enter Programming Mode?
1) Press [ENTER]
2) Enter your [INSTALLER CODE] (default: 0000 / 000000) or [MAINTENANCE CODE] (default 1111/111111)
3) Enter 3-digit [SECTION] you wish to program
4) Enter required [DATA]

3.2.1 Single Digit Data Entry Method (Decimal and Hexadecimal)
Single Digit Data Entry is used in all sections except those specified in the Feature Select Programming Method (below). After entering Programming Mode as described in the shaded box above, some sections will require that you enter **Decimal** values from **000 to 255**. Other sections will require that you enter **Hexadecimal** values from **0 to F**. The required data will be clearly indicated in this manual as well as in the Magellan MG5000 Programming Guide. When entering the final digit in a section, the control panel will automatically save and advance to the next section. Except sections 001 to 032, after entering the first three digits the control panel will switch to Feature Select Programming. For phone number programming, press [ENTER] to save the data.

<table>
<thead>
<tr>
<th>Value or Action</th>
<th>What Do I Press?</th>
<th>What Do I See?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Value 0 / Replace Current Digit with 0</td>
<td>[SLEEP]</td>
<td>Erase digit and remain in section</td>
</tr>
<tr>
<td>Values 1 to 9</td>
<td>[1] to [9]</td>
<td>Zone 1 to 9</td>
</tr>
<tr>
<td>A (hex only)</td>
<td>[0]</td>
<td>Zone 10</td>
</tr>
<tr>
<td>B (hex only)</td>
<td>[OFF]</td>
<td>Zone 11</td>
</tr>
<tr>
<td>C (hex only)</td>
<td>[BYP]</td>
<td>Zone 12</td>
</tr>
<tr>
<td>D (hex only)</td>
<td>[MEM]</td>
<td>Zone 13</td>
</tr>
<tr>
<td>E (hex only)</td>
<td>[TBL]</td>
<td>Zone 14</td>
</tr>
<tr>
<td>F (hex only)</td>
<td>[]</td>
<td>Zone 15</td>
</tr>
<tr>
<td>Exit Without Saving</td>
<td>[CLEAR]</td>
<td>ARM &amp; STAY LED flash</td>
</tr>
<tr>
<td>Save Data (hex only)</td>
<td>[ENTER]</td>
<td>Advances to the next section</td>
</tr>
</tbody>
</table>

### Feature Select Programming Method
After entering certain sections, eight options will be displayed where each option from [1] to [8] represents a specific feature. Press the key corresponding to the desired option. This means the option is ON. Press the key again to remove the digit, thereby, turning OFF the option. When the options are set, press the [ENTER] key to save and advance to the next section.
### 3.2.3 Data Display Mode

In the Data Display Mode you can view the programmed contents of each section one digit at a time.

To access the Data Display Mode, press the [ENTER] key after entering a section and before entering any data. The four LEDs as indicated below will begin to flash indicating that you are in the Data Display Mode.

Each time the [ENTER] key is pressed, the keypad will display the next digit in the current section and will continue through all the following sections one digit at a time without changing the programmed values. Not available for sections using the Multiple Feature Select Method. Press the [CLEAR] key at any time to exit the Data Display Mode.

### 3.3 Configuring the Keypad Zone Number

**How Do I Configure The Keypad?**

Press [ENTER]

Enter your [INSTALLER CODE] (default: 0000 / 000000) or [MAINTENANCE CODE] (default 1111/111111)

Press [c] and hold for three seconds

Enter the desired zone number key (MG32LED/MG32LRF: 2-digit entry 01 to 32, MG10LEDV/H: 1-digit entry 1 to 0(10))

Press [ENTER] to save and exit programming mode

Press [CLEAR] to erase data without saving

Press [CLEAR]+[CLEAR] to exit programming mode without saving

⚠️ **PLEASE NOTE:** After five minutes, the keypad exits programming mode.

### 3.4 Programming Using A Paradox Memory Key*

Copy the sections of one Magellan control panel into the Paradox Memory Key (PMC-3/PMC-4). Then copy the contents of the Memory Key into as many Magellan control panels as needed. Each panel is programmed in less than 3 seconds.

**Download to DESTINATION Control Panel**

1) Remove AC and battery power from the control panel.
2) Place the Memory Key on the serial connector labeled MEMORY KEY of the Magellan Control Panel that is to receive the contents of the Memory Key.
3) Reapply AC and battery power.
4) In Installer Programming Mode, enter section [970], the keypad emits a confirmation beep.
5) When the keypad emits a second confirmation beep, remove the Memory Key.

**Copy to Memory Key from SOURCE Control Panel**

1) Remove AC and battery power from the control panel.
2) Place Memory Key on the serial connector labeled MEMORY KEY of the Magellan Control Panel that you want to copy. Make sure the write protect jumper of the Memory Key is on.
3) Reapply AC and battery power.
4) In Installer Programming Mode, enter section [975]. The keypad emits a confirmation beep.
5) After the keypad emits a second confirmation beep, remove the Memory Key. Remove the Memory Key's jumper if you do not wish to accidentally overwrite its contents.

*Not investigated by UL*
Part 4: Access Codes

The Magellan MG5000 control panel supports the following access codes:

<table>
<thead>
<tr>
<th>Access Code Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installer Code [397]</td>
<td>Used to program all control panel settings except user access codes.</td>
</tr>
<tr>
<td>Maintenance Code [398]</td>
<td>The Maintenance code is similar to the Installer code. It can be used to enter programming mode, which allows you to program all the features, options and commands except for the MG5000’s communication settings.</td>
</tr>
<tr>
<td>System Master Code [399]</td>
<td>Provides full access. Arm and disarm using any method described in the User Code Options below as well as program the user access codes.</td>
</tr>
<tr>
<td>Master Code 1:</td>
<td>Permanently assigned to partition 1. Same as a regular user code except it can also program access codes for user codes assigned to partition 1.</td>
</tr>
<tr>
<td>Master Code 2:</td>
<td>Permanently assigned to partition 2. Same as a regular user code except it can program access codes for user codes assigned to partition 2. If the system is not partitioned Master Code 2 will be assigned to partition 1.</td>
</tr>
<tr>
<td>29 User Codes:</td>
<td>Can arm and disarm as per User Code Options on page 12.</td>
</tr>
</tbody>
</table>

4.1 Access Code Length

Section [701]: System Options
Option [1] OFF = 6-Digit Access Codes
Option [1] ON = 4-Digit Access Codes (default)

All access codes can be set to lengths of either 4- or 6-digits. When the 4-digit option is selected, entering a 4-digit code will allow access. Using the 6-digit option, entering 6 digits is required to allow access.

*If the access code length is changed from four digits to six digits when access codes have already been programmed, the control panel will automatically add the last 2 digits by using the first 2 digits. For example, if the access code is 1234 and you switch to 6 digits, the code will become 123412. Be sure to verify the access codes after switching from 4-digit access codes to 6-digit codes. When switching from six digits to four digits, the control panel will simply remove the final two digits of the access code. For example, 123456 will become 1234.*

4.2 Installer Code (Default: 0000 / 000000)

The Installer Code is used to enter the MG5000’s programming mode, which allows you to program all the features, options and commands of the control panel. The Installer Code can be 4- or 6-digits in length (see Access Code Length on page 11) where each digit can be any value from 0 to 9. The Installer Code cannot be used to program Master Code 1, Master Code 2 or user access codes. To program the Installer Code press:

[ENTER] + [CURRENT INSTALLER CODE] + [397] + new 4- or 6-digit Installer Code
4.3 Maintenance Code (Default: 1111 / 111111)
The Maintenance code is similar to the Installer code. It can be used to enter programming mode, which allows you to program all
the features, options and commands except for the MG5000’s communication settings (sections [395], [397], [398], [815], [816],
[817], [910], and [911]) as well as any user codes. The Maintenance code can be 4 or 6 digits in length where each digit can be
any value from 0 to 9.

**[ENTER]** + **[INSTALLER CODE]** + **[398]** + new 4- or 6-digit System Master Code

4.4 System Master Code (Default: 1234 / 123456)
The Installer Code can be used to program the System Master Code. With the System Master Code a user can use any arming
method and can program any user access code, but not the User Code Options. The System Master Code can be 4 or 6 digits in
length, where each digit can be any digit from 0 to 9. The System Master Code can be modified but cannot be erased. To change
the System Master Code press:

**[ENTER]** + **[INSTALLER CODE]** + **[399]** + new 4- or 6-digit System Master Code

4.5 User Code Options
Sections [404] to [432]: Options [1] to [8]
The User Code Options define which arming methods each user can use to arm or disarm the system. Regardless of these
settings, all users can Regular arm assigned partitions and all users except those with the Arm Only option can disarm an
assigned partition, regardless of how it is armed. Select one or more of the options described on the following pages for each
user access code, where sections [404] to [432] represent user access codes 004 to 032.

4.5.1 Partition 1 Assignment
Sections [404] to [432]: User codes 004 to 032
Option [1] OFF = Deny access to partition 1
Option [1] ON = User code has access to partition 1 (default)
If the system is partitioned (see Partitioning on page 42), user codes with this option enabled can arm and disarm
partition 1.

**If the system is not partitioned, you must assign partition 1 to the user access code. Otherwise, the
user access code will be considered disabled.**

4.5.2 Partition 2 Assignment
Sections [404] to [432]: User Codes 004 to 032
Option [2] OFF = Deny access to partition 2 (default)
Option [2] ON = User code has access to partition 2
If the system is partitioned (see Partitioning on page 42), user codes with this option enabled can arm and disarm
partition 2. If the system is not partitioned, the control panel ignores this option.

4.5.3 Bypass Programming
Sections [404] to [432]: User Codes 004 to 032
Option [3] OFF = Bypass Programming Disabled
Option [3] ON = Bypass Programming Enabled (default)
User codes with this option enabled can perform Bypass Programming in assigned partitions.

4.5.4 Stay/Sleep Arming
Sections [404] to [432]: User Codes 004 to 032
Option [4] OFF = Stay/Sleep Arming Disabled
User codes with this option enabled can Stay or Sleep arm assigned partitions.

4.5.5 Force Arming
Sections [404] to [432]: User Codes 004 to 032
Option [5] OFF = Force Arming Disabled
User codes with this option enabled can Force arm assigned partitions.
4.5.6  **Arm Only**  
Sections [404] to [432]: User Codes 004 to 032  
Option [6] OFF = Arm Only Disabled (default)  

The user code with this option enabled can arm assigned partitions, but cannot disarm any partitions. The type of arming is dependent on the other User Code Options selected. Please note that with the Arm Only option, the user can cancel a recently armed system by re-entering the access code before the end of the exit delay.

4.5.7  **PGM Activation**  
Sections [404] to [432]: User Codes 004 to 048  
Option [7] OFF = User Code follows User Code Options and can activate a PGM (default)  
Option [7] ON = User Code can activate a PGM only  

With option [7] off, entering the access code will arm or disarm according to the programmed User Code Options as well as activate or deactivate a PGM. The appropriate PGM Activation/Deactivation Event must also be programmed (see Programmable Outputs on page 40). With option [7] on, the control panel will ignore all other User Code Options. Therefore, entering the access code will only activate or deactivate the PGM.

4.5.8  **Duress**  
Sections [404] to [432]: User Codes 004 to 032  
Option [8] OFF = User Code with duress disabled (default)  
Option [8] ON = User Code with duress enabled  

If you are coerced into arming or disarming your system, entering the access code with the duress option enabled will arm or disarm the system and immediately transmit a silent alert (Duress Code) to the monitoring station.

4.6  **Lock Master Code**  
Section [701]: System Options  
Option [2] OFF = Lock System Master Code Disabled (default)  
Option [2] ON = Lock System Master Code Enabled  

With this feature enabled, the control panel will lock the System Master Code (001), it cannot be modified. With this feature disabled, the control panel will unlock the System Master Code, so that it can be changed. The System Master Code cannot be deleted (see Master Quick Menu Programming in the MG5000 User Guide).
Part 5: Zone Programming

When programming zones, the zone assignments are dependent on the designation of the wireless transmitters, assignment of keypad zones, and the detection devices that are connected to the panel. For wireless assignment, see Wireless Transmitter Programming on page 20 or the Installer Quick Menu of the MG5000 Programming Guide. For keypad assignment, see Configuring the Keypad Zone Number on page 10. For panel hardwire detection devices, Table 3 on page 14. After assigning the required zones, you must set the zone’s definitions, partition assignment, and options see Figure 9 on page 14. Certain Zone Definitions change if a Stay/Sleep alarm delay is activated (section [720]). See Table 4 on page 17.

Table 3: Zone Recognition Table

<table>
<thead>
<tr>
<th>Wireless</th>
<th>Keypad</th>
<th>Hardwire</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zone 1</td>
<td>Yes</td>
<td>Yes (Input Z1)</td>
</tr>
<tr>
<td>Zone 2</td>
<td>Yes</td>
<td>Yes (Input Z2)</td>
</tr>
<tr>
<td>Zone 3</td>
<td>Yes</td>
<td>Yes (Input Z1 with ATZ)</td>
</tr>
<tr>
<td>Zone 4</td>
<td>Yes</td>
<td>Yes (Input Z2 with ATZ)</td>
</tr>
<tr>
<td>Zone 5 to 32</td>
<td>Yes</td>
<td>No</td>
</tr>
</tbody>
</table>

If a zone is already programmed and you assign a device to the same zone, a wireless zone will overwrite a keypad/hardwire zone, and a keypad zone will overwrite a hardwire zone.

Figure 9: Magellan Zone Programming

5.1 Zone Definitions

As demonstrated in Figure 6 above, sections [001] to [032] represent zones 1 through 32 respectively, where the first two digits in each of these sections represents the zone’s definition. To disable a zone, enter [00]. There are 21 available Zone Definitions.

5.1.1 Entry Delay 1 Zones

Sections [001] to [032]: Zones 1 to 32, First Digits = 01

When the system is armed and a zone defined with Entry Delay 1 opens, the control panel will generate an alarm after the programmed Entry Delay 1 Timer elapses. This is to provide users with enough time to enter the protected area and disarm the system. To program the Entry Delay 1 Timer, key in the desired 3-digit delay value (000 to 255 seconds, Default = 45 seconds) into section [710]. Entry delay zones are commonly used at the entry/exit points of the protected area (i.e. front/back door, garage, etc.). Using different entry delays is useful when, for example, one entry point requires a longer delay than the other entry point or in a partitioned system where each partition may require a different entry delay.

5.1.2 Entry Delay 2 Zones

Sections [001] to [032]: Zones 1 to 32, First Digits = 02

Entry Delay 2 zones are identical to the Entry Delay 1 zones, except it uses a separate entry delay timer. To program the Entry Delay 2 Timer, key in the desired 3-digit delay value (000 to 255 seconds, Default = 45 seconds) into section [711].
5.1.3 Entry Delay 1 / Stay / Sleep Zones
Sections [001] to [032]: Zones 1 to 32, First Digits = 03
Upon regular arming, the zone is Entry Delay 1 (see Entry Delay 1 Zones on page 14). Upon Stay/Sleep arming, the zone is bypassed by the system. See Table 4 on page 17 for any exceptions.

5.1.4 Entry Delay 2 / Stay / Sleep Zones
Sections [001] to [032]: Zones 1 to 32, First Digits = 04
Upon regular arming, the zone is Entry Delay 2 (see Entry Delay 2 Zones on page 14). Upon Stay/Sleep arming, the zone is bypassed by the system. See Table 4 on page 17 for any exceptions.

5.1.5 Follow Zones
Sections [001] to [032]: Zones 1 to 32, First Digits = 05
When a Regular, Stay, or Sleep armed Follow Zone opens, the control panel will immediately generate an alarm, unless an entry delay zone opens first:
  • If a Regular/Stay/Sleep armed Follow Zone opens after an entry delay zone opens, the control panel waits until the entry delay timer has elapsed before generating an alarm.
  • If a Regular/Stay/Sleep armed Follow Zone opens after more than one entry delay zone opens, the control panel will wait until the entry delay timer of the zone that opened first has elapsed.

This feature is commonly used when a motion detector is protecting the area occupied by the entry point keypad. This will prevent the motion detector from causing an alarm when a user enters through the entry point to disarm the system. See Table 4 on page 17 for any exceptions.

5.1.6 Follow / Stay Zones
Sections [001] to [032]: Zones 1 to 32, First Digits = 06
Upon regular arming or sleep arming, the zone is Follow. Upon Stay arming, the zone is bypassed by the system. See Table 4 on page 17 for any exceptions.

5.1.7 Follow / Stay / Sleep Zones
Sections [001] to [032]: Zones 1 to 32, First Digits = 07
Upon regular arming, the zone is Follow (see Follow Zones on page 15). Upon Stay or Sleep arming, the zone is bypassed by the system. See Table 4 on page 17 for any exceptions.

5.1.8 Instant Zones
Sections [001] to [032]: Zones 1 to 32, First Digits = 08
When an armed Instant Zone opens, the control panel immediately generates an alarm. Instant Zones are commonly used for windows, patio doors, skylights and other perimeter type zones. See Table 4 on page 17 for any exceptions.

5.1.9 Instant / Stay Zones
Sections [001] to [032]: Zones 1 to 32, First Digits = 09
All zones defined as Instant/Stay zones become Instant zones when the system is Regular armed. All zones defined as Instant/Stay zones become bypassed when the system is Stay armed. See Table 4 on page 17 for any exceptions.

5.1.10 Instant / Stay / Sleep Zones
Sections [001] to [032]: Zones 1 to 32, First Digits = 10
All zones defined as Instant/Stay/Sleep zones become Instant zones when the system is Regular armed. All zones defined as Instant/Stay/Sleep zones become bypassed when the system is Stay or Sleep armed. See Table 4 on page 17 for any exceptions.
5.1.11 Instant Fire Zones  
Sections [001] to [032]: Zones 1 to 32, First Digits = 11  
When an Instant Fire zone opens, whether it is armed or disarmed, the console will send the corresponding Alarm Report Code and the alarm is always audible regardless of other settings. Fire alarms generate an intermittent (pulsed) bell/siren output signal as shown in Figure 10 on page 16.

![Figure 10: Bell/Siren Output during a Fire Alarm](image)

5.1.12 Delayed Fire Zones  
Sections [001] to [032]: Zones 1 to 32, First Digits = 12  
When a Delayed 24Hr. Fire zone opens, whether it is armed or disarmed, the console will react as shown in Figure 11. Delayed 24Hr. Fire zones are commonly used in residential homes where a smoke detector often generates false alarms (i.e., burning bread, etc.). Fire alarms generate an intermittent (pulsed) bell/siren output signal as shown in Figure 10 above.

![Figure 11: Delayed 24Hr Fire Zone](image)

5.1.13 Instant Fire Silent Zones  
Sections [001] to [032]: Zones 1 to 32, First Digits = 13  
When an Instant Fire Silent zone opens, whether it is armed or disarmed, the console will generate the following:  
The console can send the corresponding Alarm Report Code and the alarm will be silent regardless of other settings.

5.1.14 Delayed Fire Silent Zones  
Sections [001] to [032]: Zones 1 to 32, First Digits = 14  
When a Delayed Fire zone opens, whether it is armed or disarmed, the console will react as shown in Figure 11. Delayed 24Hr. Fire zones are commonly used in residential homes where a smoke detector often generates false alarms (i.e., burning bread, etc.). The console can send the corresponding Alarm Report Code and the alarm will be silent regardless of other settings.

5.1.15 24 Hr. Buzzer  
Sections [001] to [032]: Zones 1 to 32, First Digits = 15  
When a 24Hr Buzzer Zone opens, whether the zone is armed or disarmed, the control panel sets off the keypad’s buzzers to indicate that the zone was breached. The control panel will report the alarm, but will not enable the bell/siren output. Enter any valid access code on the keypad to stop the buzzer. This zone definition is particularly useful when a user wishes to be notified when something such as a safe or locker within the home has been accessed (i.e. a child accessing a valuable collection).

5.1.16 24 Hr. Burglary Zones  
Sections [001] to [032]: Zones 1 to 32, First Digits = 16  
When a 24Hr Burglary Zone opens, whether the system is armed or disarmed, the control panel will immediately generate an alarm. This alarm is defined by the alarm type, configured in Zone Programming under zone options [4] and [5]. See Alarm Types on page 18.
5.1.17 **24 Hr. Hold-up Zones**  
Sections [001] to [032]: Zones 1 to 32, First Digits = 17  
When a 24Hr. Hold-up zone opens, whether it is armed or disarmed, the console will immediately generate an alarm. This alarm is defined by the alarm type, configured in Zone Programming under zone options [4] and [5]. See Alarm Types on page 18. The SIA FSK and CID reporting formats include specific report codes to identify the alarm as a Hold-up alarm.

5.1.18 **24 Hr. Gas Zones**  
Sections [001] to [032]: Zones 1 to 32, First Digits = 18  
When a 24Hr. Gas zone opens, whether it is armed or disarmed, the console will immediately generate an alarm. This alarm is defined by the alarm type, configured in Zone Programming under zone options [4] and [5]. See Alarm Types on page 18. The SIA FSK and CID reporting formats include specific report codes to identify the alarm as a Gas alarm.

5.1.19 **24 Hr. Heat Zones**  
Sections [001] to [032]: Zones 1 to 32, First Digits = 19  
When a 24Hr. Heat zone opens, whether it is armed or disarmed, the console will immediately generate an alarm. This alarm is defined by the alarm type, configured in Zone Programming under zone options [4] and [5]. See Alarm Types on page 18. The SIA FSK and CID reporting formats include specific report codes to identify the alarm as a Heat alarm.

5.1.20 **24 Hr. Water Zones**  
Sections [001] to [032]: Zones 1 to 32, First Digits = 20  
When a 24Hr. Water zone opens, whether it is armed or disarmed, the console will immediately generate an alarm. This alarm is defined by the alarm type, configured in Zone Programming under zone options [4] and [5]. See Alarm Types on page 18. The SIA FSK and CID reporting formats include specific report codes to identify the alarm as a Water alarm.

5.1.21 **24 Hr. Freeze Zones**  
Sections [001] to [032]: Zones 1 to 32, First Digits = 21  
When a 24Hr. Freeze zone opens, whether it is armed or disarmed, the console will immediately generate an alarm. This alarm is defined by the alarm type, configured in Zone Programming under zone options [4] and [5]. See Alarm Types on page 18. The SIA FSK and CID reporting formats include specific report codes to identify the alarm as a Freeze alarm.

5.2 **Zone Definition Status**  
There are eight zone definitions that are affected by the Stay/Sleep alarm delay (section [720]). The following table shows how the zone definition changes depending on the arm status and if the Stay/Sleep alarm delay is enabled. See Stay/Sleep Arm Alarm Delay on page 32.

<table>
<thead>
<tr>
<th>Zone Definition</th>
<th>Description</th>
<th>Stay/Sleep Alarm Delay Disabled - Section [720] is 0</th>
<th>Stay/Sleep Alarm Delay Enabled - Section [720] is not 0</th>
</tr>
</thead>
<tbody>
<tr>
<td>03</td>
<td>Entry Delay1/Stay/Sleep</td>
<td>Not Armed</td>
<td>Not Armed</td>
</tr>
<tr>
<td>04</td>
<td>Entry Delay2/Stay/Sleep</td>
<td>Not Armed</td>
<td>Not Armed</td>
</tr>
<tr>
<td>05</td>
<td>Follow (Entry Delay/Instant)</td>
<td>As is</td>
<td>As is</td>
</tr>
<tr>
<td>06</td>
<td>Follow/Stay</td>
<td>Not Armed</td>
<td>Follow (Entry Delay/Instant)</td>
</tr>
<tr>
<td>07</td>
<td>Follow/Stay/Sleep</td>
<td>Not Armed</td>
<td>Not Armed</td>
</tr>
<tr>
<td>08</td>
<td>Instant</td>
<td>As is</td>
<td>As is</td>
</tr>
<tr>
<td>09</td>
<td>Instant/Stay</td>
<td>Not Armed</td>
<td>Instant</td>
</tr>
<tr>
<td>10</td>
<td>Instant/Stay/Sleep</td>
<td>Not Armed</td>
<td>Not Armed</td>
</tr>
</tbody>
</table>
5.3 Zone Partition Assignment
Sections [001] to [032]: Zones 1 to 32,
The control panel provides the option of partitioning the security system into two completely independent systems. Sections [001] to [032] represent zones 1 through 32 respectively, where the third digit in each of these sections represents the zone's partition assignment. The zone is assigned to Partition 1 if third digit = 1, Partition 2 if third digit = 2, or both partitions is third digit = 3. For more details, see Partitioning on page 42.

5.4 Zone Options
Sections [001] to [032] represent zones 1 through 32 respectively. After entering the definition and partition assignment, select one or more of the following Zone Options by using the Multiple Feature Select Programming Method:

5.4.1 Auto-Zone Shutdown
Sections [001] to [032] = Zones 1 to 32
Option [1] OFF = Auto Zone Shutdown Disabled
Option [1] ON = Auto Zone Shutdown Enabled for selected zone (default)
If, in a single armed period, the number of alarms generated by a zone with the Auto Zone Shutdown option enabled exceeds the number defined by the Auto Zone Shutdown Counter, the control panel will no longer generate an alarm for that zone. To program the Auto Zone Shutdown Counter, key in the desired limit (000=Disabled, 001 to 015, Default = 5) into section [712]. The Auto Zone Shutdown Counter resets every time a valid code is entered.

5.4.2 Bypassable Zones
Sections [001] to [032] = Zones 1 to 32
Option [2] OFF = Bypass Zone Disabled
Option [2] ON = Selected Zone is Bypass Enabled (default)
When a user utilizes the Bypass Programming feature (see Bypass Programming on page 12), only zones with the Bypass option enabled can be programmed as bypassed.

! Do not program a fire zone with the Bypass option, as the control panel will never bypass fire zones.

5.4.3 RF Supervision
Sections [001] to [032]: Zones 1 to 32
Option [3] OFF = RF Supervision Disabled
Option [3] ON = RF Supervision Enabled (default)
The MG5000 waits for each of its assigned wireless transmitters to send a status signal within a specified time period (section [706], option [1]) to confirm their presence and functionality. If a device has not sent a signal within that time period, the Magellan can generate a trouble, an alarm, and/or transmit a report code to the monitoring station. See Trouble Display on page 46.

5.4.4 Alarm Types
Sections [001] to [032]: Zones 1 to 32
When the conditions for an alarm have been met, the control panel can transmit the appropriate Zone Alarm report code and provides a steady output for any bells or sirens connected to the control panel's bell output.

When the conditions for an alarm have been met, the control panel can transmit the appropriate Zone Alarm report code and provides a pulsed output (see Figure 10 on page 16) for any bells or sirens connected to the control panel's bell output.

When the conditions for an alarm are met, the control panel can transmit the appropriate Zone Alarm report code and will not activate the control panel's bell output. The appropriate ARM or STATUS LED on the keypads will flash to indicate an alarm and the user will still have to disarm the system.

When the conditions for an alarm have been met, the control panel can transmit the appropriate Zone Alarm report code. The system will not have to be disarmed.
5.4.5 Intellizone
Sections [001] to [032]: Zones 1 to 32
Option [6] OFF = Intellizone Disabled (default)
Option [6] ON = Intellizone Enabled for Selected Zone

This feature reduces the possibility of false alarms. When a zone with the Intellizone option opens, the panel does not immediately generate an alarm. First it triggers the Intellizone Delay Timer. To program the Intellizone Delay Timer, key in the desired 3-digit value (000 to 255 seconds, Default = 48 seconds) into section [713]. If any of the following conditions occur during this period, the panel will generate an alarm:

- During the Intellizone Delay, a second zone has caused an alarm.
- During the Intellizone Delay, the zone in alarm has restored (closed) and re-occurred (opened).
- The zone in alarm remains open for the entire Intellizone Delay.

5.4.6 Delay Alarm Transmission
Sections [001] to [032]: Zones 1 to 32
Option [7] OFF = Delay Alarm Transmission Disabled (default)
Option [7] ON = Delay Alarm Transmission Enabled for Selected Zone

When an alarm condition occurs on a zone with this option enabled, the control panel enables the bell/siren output, but does not report the alarm to the monitoring station until the end of the Delay Alarm Transmission. To program the Delay Alarm Transmission, key in the desired 3-digit delay value (000 = Disabled, 001 to 255 seconds) into section [833]. During this period, disarming the system disables the bell/siren output and cancels the report code transmission. This feature is commonly used with entry delay zones to reduce false alarms created by new users who may not disarm the system in time.

5.4.7 Force Zones
Sections [001] to [032]: Zones 1 to 32
Option [8] OFF = Force Zone Disabled
Option [8] ON = Selected Zone is Force Enabled (default)

Any open Force Zones at the time of arming will be considered deactivated by the control panel. If during this period a deactivated zone is closed, the control panel will revert that zone to active status. Consequently, the control panel will generate an alarm if the zone is breached.

**Do not program a fire zone with the Force option, as the control panel will never bypass fire zones when Force arming.**

5.5 EOL Zones
Section [706]: Zone Options
Option [2] OFF = Zones do not use EOL resistors (default)
Option [2] ON = Zones require EOL resistors

If all detection devices connected to the control panel have input terminals that require 1KΩ end of line resistors, enable option [2] in section [706]. For details on using EOL resistors, see *Single Zone Inputs* on page 6.

5.6 ATZ Zone Doubling
Section [705]: General Zone Options
Option [1] OFF = ATZ zone doubling disabled (default)
Option [1] ON = ATZ zone doubling enabled

Enabling ATZ Zone Doubling allows you to install two detection devices per input terminal.

5.7 ATZ Wiring Options
Section [705]: General Zone Options
Option [2] OFF = ATZ Series (default)
Option [2] ON = ATZ Parallel doubling enabled

ATZ Zone Doubling can be configured in either a series or parallel connection.

5.8 Zone Input 1 Becomes a 2-wire Smoke Input
Section [706]: General Zone Options
Option [3] OFF = Zone input 1 is a standard zone input (default)
Option [3] ON = Zone input 1 becomes a 2-wire smoke input

With this option enabled, zone input 1 becomes a 2-wire smoke input.
5.9 Zone Timers
Sections [041] to [044]: Zones 1 to 4
001 to 255 x 10ms, Default = 060

The Zone Timer defines how quickly the control panel will respond to an open zone. The control panel will not display an open zone on the keypad or generate an alarm until the programmed Zone Timer has elapsed. All other zone definitions and options do not come into effect until the Zone Timer has elapsed. This feature prevents any momentary glitches from causing an alarm or unnecessary reporting.

Part 6: Wireless Features

The Magellan MG5000 allows for the addition of up to thirty-two fully supervised Magellan wireless transmitters, and up to thirty-two programmable remote controls.

6.1 Wireless Transmitter Programming
The programming of the wireless transmitters (detectors and door contacts) is accomplished in two steps:
1. Assign the wireless transmitter to the Magellan MG5000.
2. Program the zones.

Wireless Transmitter Programming can be executed through the Installer Quick Menu in the MG5000 Programming Guide. Sections [061] to [092] represent expansion inputs 1 to 32 respectively.

The serial number is located on the inside of the transmitter or you can use the Serial Number Display (section [960]) to determine its serial number. The transmitters must be activated once having been assigned to the Magellan MG5000. To activate a transmitter, insert the batteries and close the cover. To ensure proper synchronization between the control panel and the transmitter, open and close the zone corresponding to the transmitter.

### How Do I Assign Wireless Transmitters to the MG5000?
1) Press the [ENTER] key.
2) Enter your [INSTALLER CODE] (default: 0000 / 000000) or [MAINTENANCE CODE] (default 1111/111111)
3) Enter the desired [SECTION NUMBER] (from sections [061] to [092]).
4) Enter the 6-digit [SERIAL NUMBER] of the wireless transmitter.

### How Do I Delete Assigned Wireless Transmitters?
1) Press the [ENTER] key.
2) Enter your [INSTALLER CODE] (default: 0000 / 000000) or [MAINTENANCE CODE] (default 1111/111111)
3) Enter the desired [SECTION NUMBER] (from sections [061] to [092]).
4) Press the [0] key six times to clear the serial number.

6.2 Viewing the Wireless Transmitter Signal Strength
Sections [101] to [132]

Once wireless transmitters have been installed and assigned to the Magellan MG5000, the signal strength of each transmitter can be verified in sections [101] to [132]. Each section represents the signal strength viewer for a specific device. For example, section [101] is the viewer for zone 1 and section [132] is the viewer for the zone 32. Sometimes moving the transmitter or control panel by a small amount will greatly increase the signal reception.

### How Do I View a Wireless Transmitter’s Signal Strength?
1) Press the [ENTER] key.
2) Enter your [INSTALLER CODE] (default: 0000 / 000000) or [MAINTENANCE CODE] (default 1111/111111)
3) Enter the desired [SECTION NUMBER] (from sections [101] to [132]).
4) Press the transmitter’s anti-tamper switch or open the corresponding zone.
5) The keypad will illuminate numbers 1 to 10.

<table>
<thead>
<tr>
<th>Signal Strength Indicator</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>8 to 10 / 3 beeps</td>
<td>Best signal</td>
</tr>
<tr>
<td>5 to 7 / 2 beeps</td>
<td>Average signal</td>
</tr>
<tr>
<td>1 to 4 / 1 beep</td>
<td>Weak signal (Relocate)</td>
</tr>
</tbody>
</table>
6.3 Supervision Options

The Supervision Options cannot be used with any remote controls assigned to the control panel.

6.3.1 Supervision Bypass Options
Section [705]: Arming/Disarming Options
Option [8] ON = Generate Supervision Loss if detected on a Bypassed Wireless Transmitter Zone (default)
Option [8] OFF = No Supervision Loss if detected on a Bypassed Wireless Transmitter Zone

When this feature is disabled, the Wireless Transmitter Supervision Options will follow the zone’s bypass definition. This means the control panel will not perform any action if a Supervision Loss occurs on a bypassed zone. When this feature is enabled, the Wireless Transmitter Options will ignore the bypass definition. This means the control panel will generate an incident as per Wireless Transmitter Supervision Options if a supervision loss occurs on a bypassed zone.

6.3.2 RF Supervision Timer Settings
Section [706]: Supervision Options
Option [1] OFF = Check-in supervision interval is every 24 hours (default)
Option [1] ON = Check-in supervision interval is every 80 minutes

Option [1] defines the time period that the control panel will expect a check-in status signal from its assigned wireless transmitters. For example, if the timer is set to 80 minutes (option [1] = ON), the control panel will expect a check-in status signal to be sent from its assigned wireless transmitters within 80 minutes. If the Magellan MG5000 does not receive a signal from one of its wireless transmitters within the period of time defined here, it can then generate a trouble, an alarm, and/or can transmit a report code to the monitoring station (see Supervision Options on page 21).

6.4 RF Jamming Supervision
Section [700]: Zone Options
Option [5] OFF = RF Jamming Supervision Disabled
Option [5] ON = RF Jamming Supervision Enabled (default)

With option [5] ON, a trouble will be generated when the panel’s RF signal is jammed or encounters interference for a minimum of 10 seconds.

6.5 Wireless Serial Number Display
Section [960]: Find Wireless Serial Number Display

To see the wireless serial number display, enter section [960]. Press the anti-tamper switch of the desired module to be viewed. The first digit of the serial number will illuminate on the keypad. Press [ENTER] to see each consecutive digit. Press [CLEAR] to exit.

6.6 Remote Control Programming
The Magellan MG5000 accepts up to thirty-two fully programmable remote controls. Programming the remote controls is accomplished in two steps:
1) Assign the remote controls to the Magellan MG5000 control panel.
2) Program the buttons on the remote controls.

6.6.1 Assigning a Remote Control to the Magellan MG5000
Sections [611] to [642]: Remote Controls 1 to 32 respectively
Remote controls are assigned to the panel using the Automatic Learning method via the Master Quick Menu Programming or by entering the serial number.

How Do I Assign a Remote Control to the Magellan MG5000?
1) Press the [ENTER] key.
2) Enter your [INSTALLER CODE] (default: 0000 / 000000) or [MAINTENANCE CODE] (default 1111/111111)
3) Enter the desired [SECTION NUMBER] (from sections [651] to [682]).
4) Enter the six-digit serial number of the remote.

6.6.2 Deleting Assigned Remote Controls
Sections [611] to [642]: Remote Controls 1 to 32 respectively
Remote controls can be deleted by deleting the corresponding user (see the Quick Menu in the MG5000 User Guide).
6.6.3 Programming the Remote Control Buttons
Sections [611] to [642]: Remote Controls 1 to 32 respectively

Each remote control can be programmed to perform up to 4 different actions. Each digit in sections [611] to [642] represents a button or combination of buttons.

Warning: When section [610] is accessed, the MG5000 will copy the saved value of that section to all remotes.

How Do I Program the Remote Control's Buttons?
1) Press the [ENTER] key.
2) Enter your [INSTALLER CODE] (default: 0000 / 000000) or [MAINTENANCE CODE] (default 1111/111111)
3) Enter the desired [SECTION NUMBER] (from sections [615] to [682]).
4) Enter the [HEXADECIMAL VALUE] (0 to F) of the desired button option from Table 5 on page 22 in the appropriate space. If you do not wish to program a button combination, press the [SLEEP] key to skip.

Table 5: Button Options

<table>
<thead>
<tr>
<th>Button</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Button Disabled*</td>
</tr>
<tr>
<td>1</td>
<td>Regular/Regular Force arming</td>
</tr>
<tr>
<td>2</td>
<td>Stay/Stay Force arming</td>
</tr>
<tr>
<td>3</td>
<td>N/A</td>
</tr>
<tr>
<td>4</td>
<td>Sleep/Sleep Force arming</td>
</tr>
<tr>
<td>5</td>
<td>N/A</td>
</tr>
<tr>
<td>6</td>
<td>N/A</td>
</tr>
<tr>
<td>7</td>
<td>N/A</td>
</tr>
<tr>
<td>8</td>
<td>Generate a Panic 1 Alarm</td>
</tr>
<tr>
<td>9</td>
<td>Generate a Panic 2 Alarm</td>
</tr>
<tr>
<td>0(10)</td>
<td>Generate a Panic 3 Alarm</td>
</tr>
</tbody>
</table>

* If you do not enter a value for a button, that button is disabled.

6.7 Wireless Keypad Assignment
Sections [570] to [573]

Automatic Assignment: After panel power-up, the control panel will open a 10 minute window for Automatic Assignment. Press and hold the [C] and [BYP] key for three seconds on the respective keypad. The keypad is assigned to the control panel. Up to 4 wireless keypads can be assigned within the ten minute window.

Standard Assignment: Press [ENTER]. Enter your [INSTALLER CODE] or [MAINTENANCE CODE].
Press and hold the [C] and [BYP] key for three seconds on the respective keypad. The keypad is assigned to the control panel. Alternatively, enter the serial number of the MG32LRF into one of the four sections to assign it to the panel.

6.8 Viewing the Wireless Keypad Signal Strength
Sections [575] to [578]

Once wireless keypads have been installed and assigned to the Magellan MG5000, the signal strength of each transmitter can be verified in sections [575] to [578]. Each section represents the signal strength viewer for a specific keypad. For example, section [575] is the viewer for keypad 1 and section [578] is the viewer for the keypad 4. Sometimes moving the keypad by a small amount will greatly increase the signal reception.

How Do I View a Wireless Keypad's Signal Strength?
1) Press the [ENTER] key.
2) Enter your [INSTALLER CODE] (default: 0000 / 000000) or [MAINTENANCE CODE] (default 1111/111111)
3) Enter the desired [SECTION NUMBER] (from sections [575] to [578]).
4) Press the keypad's anti-tamper switch or open the corresponding keypad zone.
5) The keypad will illuminate numbers 1 to 10.

Signal Strength Indicator
8 to 10 / 3 beeps = Best signal 5 to 7 / 2 beeps = Average signal 1 to 4 / 1 beep = Weak signal (Relocate)
6.9 Wireless Keypad Options
Section [580]: Wireless Keypad Options

Option [1] OFF = Keypad 1 Supervision Disabled
Option [1] ON = Keypad 1 Supervision Enabled (default)

Option [2] OFF = Keypad 2 Supervision Disabled
Option [2] ON = Keypad 2 Supervision Enabled (default)

Option [3] OFF = Keypad 3 Supervision Disabled
Option [3] ON = Keypad 3 Supervision Enabled (default)

Option [4] OFF = Keypad 4 Supervision Disabled
Option [4] ON = Keypad 4 Supervision Enabled (default)

If enabled, the panel can wait for each of its assigned wireless transmitters to send a status signal within a specified time to confirm their presence and functionality.

6.10 Wireless Keypad Live Display Mode
Section [580]: Wireless Keypad Options

Option [8] OFF = Live Display Mode Disabled
Option [8] ON = Live Display Mode Enabled (default)

The MG32LRF has two display modes. By default, the keypad will show all events (e.g. zones in alarm, bypassed zones, etc.) live as they occur. Alternatively, with Live Display Mode off, the system will only display zones that cause an alarm or entry delay. If you want to see the status of all zones, press the [enter] key. Zones that are open but have not triggered an alarm will only be displayed after pressing the [enter] key. The display will appear for 30 seconds, showing the status of all zones at the time the [enter] key was pressed. The zone display will shut off after 30 seconds.

6.11 Wireless Repeater Programming
Sections [545] to [546] represent wireless repeater 1 and 2 respectively.

The wireless repeater module will improve the range of your system by retransmitting information from zones, PGMs, wireless keypads and the control panel. Note that all remote control signals are always repeated. You can have two MG-RPT1 per system. The wireless repeater also provides one PGM and one zone input with two-way wireless communication with the panel.

**How Do I Assign Wireless Repeaters to the MG5000?**
1) Press the [enter] key.
2) Enter your [INSTALLER CODE] (default: 0000 / 000000) or [MAINTENANCE CODE] (default 1111/111111)
3) Enter the desired [SECTION NUMBER] (from sections [545] to [546]).
4) Enter the 6-digit [SERIAL NUMBER] of the wireless repeater.

**How Do I Delete Assigned Wireless Repeaters?**
1) Press the [enter] key.
2) Enter your [INSTALLER CODE] (default: 0000 / 000000) or [MAINTENANCE CODE] (default 1111/111111)
3) Enter the desired [SECTION NUMBER] (from sections [545] to [546])
4) Press the [0] key six times to clear the serial number.

6.12 Wireless Repeater Options
Section [551] (Repeater 1) and Section [561] (Repeater 2): Wireless Repeater Options

Option [1] OFF = Wireless Repeater Supervision (default)
Option [1] ON = Wireless Repeater Supervision

If enabled, the panel can wait for each of its wireless repeaters to send a status signal within a specified time to confirm their presence and functionality.

Option [2] OFF = N/A
Option [2] ON = N/A

Option [3] OFF = N/A
Option [3] ON = N/A

Option [4] OFF = N/A
Option [4] ON = N/A

Option [5] OFF = Repeat Wireless Keypad 1 Signals (default)
Option [5] ON = Repeat Wireless Keypad 1 Signals enabled

Option [6] ON = Repeat Wireless Keypad 2 Signals
Option [7] OFF = Repeat Wireless Keypad 3 Signals (default)
Option [7] ON = Repeat Wireless Keypad 3 Signals
Option [8] OFF = Repeat Wireless Keypad 4 Signals (default)
Option [8] ON = Repeat Wireless Keypad 4 Signals
Enable or disable the repetition of wireless keypads in this section. Enabling these options for keypads means that the repeater will retransmit any signals relevant to them.

Section [552] (Repeater 1) and Section [562] (Repeater 2): Wireless Repeater Options
Option [1] OFF = Repeat Wireless Zone 1 Signals (default)
Option [1] ON = Repeat Wireless Zone 1 Signals
Option [2] OFF = Repeat Wireless Zone 2 Signals (default)
Option [2] ON = Repeat Wireless Zone 2 Signals
Option [3] OFF = Repeat Wireless Zone 3 Signals (default)
Option [3] ON = Repeat Wireless Zone 3 Signals
Option [4] OFF = Repeat Wireless Zone 4 Signals (default)
Option [4] ON = Repeat Wireless Zone 4 Signals
Option [5] OFF = Repeat Wireless Zone 5 Signals (default)
Option [5] ON = Repeat Wireless Zone 5 Signals
Option [6] OFF = Repeat Wireless Zone 6 Signals (default)
Option [6] ON = Repeat Wireless Zone 6 Signals
Option [7] OFF = Repeat Wireless Zone 7 Signals (default)
Option [7] ON = Repeat Wireless Zone 7 Signals
Option [8] OFF = Repeat Wireless Zone 8 Signals (default)
Option [8] ON = Repeat Wireless Zone 8 Signals
Enable or disable the repetition of zone signals in these sections. Enabling these options for zones means that the repeater will retransmit any signals relevant to them.

Section [553] (Repeater 1) and Section [563] (Repeater 2): Wireless Repeater Options
Option [1] OFF = Repeat Wireless Zone 9 Signals (default)
Option [1] ON = Repeat Wireless Zone 9 Signals
Option [2] OFF = Repeat Wireless Zone 10 Signals (default)
Option [2] ON = Repeat Wireless Zone 10 Signals
Option [3] OFF = Repeat Wireless Zone 11 Signals (default)
Option [3] ON = Repeat Wireless Zone 11 Signals
Option [4] OFF = Repeat Wireless Zone 12 Signals (default)
Option [4] ON = Repeat Wireless Zone 12 Signals
Option [5] OFF = Repeat Wireless Zone 13 Signals (default)
Option [5] ON = Repeat Wireless Zone 13 Signals
Option [6] OFF = Repeat Wireless Zone 14 Signals (default)
Option [6] ON = Repeat Wireless Zone 14 Signals
Option [7] OFF = Repeat Wireless Zone 15 Signals (default)
Option [7] ON = Repeat Wireless Zone 15 Signals
Option [8] OFF = Repeat Wireless Zone 16 Signals (default)
Option [8] ON = Repeat Wireless Zone 16 Signals
Enable or disable the repetition of zone signals in these sections. Enabling these options for zones means that the repeater will retransmit any signals relevant to them.

Section [554] (Repeater 1) and Section [564] (Repeater 2): Wireless Repeater Options
Option [1] OFF = Repeat Wireless Zone 17 Signals (default)
Option [1] ON = Repeat Wireless Zone 17 Signals
Option [2] OFF = Repeat Wireless Zone 18 Signals (default)
Option [2] ON = Repeat Wireless Zone 18 Signals
Option [3] OFF = Repeat Wireless Zone 19 Signals (default)
Option [3] ON = Repeat Wireless Zone 19 Signals
<table>
<thead>
<tr>
<th>Option</th>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>[4] OFF</td>
<td>= Repeat Wireless Zone 20 Signals (default)</td>
<td></td>
</tr>
<tr>
<td>[4] ON</td>
<td>= Repeat Wireless Zone 20 Signals</td>
<td></td>
</tr>
<tr>
<td>[5] OFF</td>
<td>= Repeat Wireless Zone 21 Signals (default)</td>
<td></td>
</tr>
<tr>
<td>[5] ON</td>
<td>= Repeat Wireless Zone 13 Signals</td>
<td></td>
</tr>
<tr>
<td>[6] OFF</td>
<td>= Repeat Wireless Zone 22 Signals (default)</td>
<td></td>
</tr>
<tr>
<td>[6] ON</td>
<td>= Repeat Wireless Zone 22 Signals</td>
<td></td>
</tr>
<tr>
<td>[7] OFF</td>
<td>= Repeat Wireless Zone 23 Signals (default)</td>
<td></td>
</tr>
<tr>
<td>[7] ON</td>
<td>= Repeat Wireless Zone 23 Signals</td>
<td></td>
</tr>
<tr>
<td>[8] OFF</td>
<td>= Repeat Wireless Zone 24 Signals (default)</td>
<td></td>
</tr>
<tr>
<td>[8] ON</td>
<td>= Repeat Wireless Zone 24 Signals</td>
<td></td>
</tr>
</tbody>
</table>

Enable or disable the repetition of zone signals in these sections. Enabling these options for zones means that the repeater will retransmit any signals relevant to them.

Section [555] (Repeater 1) and Section [565] (Repeater 2): Wireless Repeater Options

<table>
<thead>
<tr>
<th>Option</th>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>[1] OFF</td>
<td>= Repeat Wireless Zone 25 Signals (default)</td>
<td></td>
</tr>
<tr>
<td>[1] ON</td>
<td>= Repeat Wireless Zone 25 Signals</td>
<td></td>
</tr>
<tr>
<td>[2] OFF</td>
<td>= Repeat Wireless Zone 26 Signals (default)</td>
<td></td>
</tr>
<tr>
<td>[2] ON</td>
<td>= Repeat Wireless Zone 26 Signals</td>
<td></td>
</tr>
<tr>
<td>[3] OFF</td>
<td>= Repeat Wireless Zone 27 Signals (default)</td>
<td></td>
</tr>
<tr>
<td>[3] ON</td>
<td>= Repeat Wireless Zone 27 Signals</td>
<td></td>
</tr>
<tr>
<td>[4] OFF</td>
<td>= Repeat Wireless Zone 28 Signals (default)</td>
<td></td>
</tr>
<tr>
<td>[4] ON</td>
<td>= Repeat Wireless Zone 28 Signals</td>
<td></td>
</tr>
<tr>
<td>[5] OFF</td>
<td>= Repeat Wireless Zone 29 Signals (default)</td>
<td></td>
</tr>
<tr>
<td>[5] ON</td>
<td>= Repeat Wireless Zone 29 Signals</td>
<td></td>
</tr>
<tr>
<td>[6] OFF</td>
<td>= Repeat Wireless Zone 30 Signals (default)</td>
<td></td>
</tr>
<tr>
<td>[6] ON</td>
<td>= Repeat Wireless Zone 30 Signals</td>
<td></td>
</tr>
<tr>
<td>[7] OFF</td>
<td>= Repeat Wireless Zone 31 Signals (default)</td>
<td></td>
</tr>
<tr>
<td>[7] ON</td>
<td>= Repeat Wireless Zone 31 Signals</td>
<td></td>
</tr>
<tr>
<td>[8] OFF</td>
<td>= Repeat Wireless Zone 32 Signals (default)</td>
<td></td>
</tr>
<tr>
<td>[8] ON</td>
<td>= Repeat Wireless Zone 32 Signals</td>
<td></td>
</tr>
</tbody>
</table>

Enable or disable the repetition of zone signals in these sections. Enabling these options for zones means that the repeater will retransmit any signals relevant to them.

Section [556] (Repeater 1) and Section [566] (Repeater 2): Wireless Repeater Options

<table>
<thead>
<tr>
<th>Option</th>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>[1] OFF</td>
<td>= Repeat Wireless 2-Way PGM 1 Signals (default)</td>
<td></td>
</tr>
<tr>
<td>[1] ON</td>
<td>= Repeat Wireless 2-Way PGM 1 Signals</td>
<td></td>
</tr>
<tr>
<td>[3] ON</td>
<td>= Repeat Wireless 2-Way PGM 3 Signals</td>
<td></td>
</tr>
<tr>
<td>[7] ON</td>
<td>= Repeat Wireless 2-Way PGM 7 Signals</td>
<td></td>
</tr>
<tr>
<td>[8] OFF</td>
<td>= Repeat Wireless 2-Way PGM 8 Signals (default)</td>
<td></td>
</tr>
<tr>
<td>[8] ON</td>
<td>= Repeat Wireless 2-Way PGM 8 Signals</td>
<td></td>
</tr>
</tbody>
</table>

Enable or disable the repetition of MG-2WPGMs signals in these sections. Enabling these options for MG-2WPGMs means that the repeater will retransmit any signals relevant to them.
Section [557] (Repeater 1) and Section [567] (Repeater 2): Wireless Repeater Options

Option [1] OFF = Repeat Wireless 2-Way PGM 9 Signals (default)
Option [1] ON = Repeat Wireless 2-Way PGM 9 Signals

Option [2] ON = Repeat Wireless 2-Way PGM 10 Signals


Option [4] ON = Repeat Wireless 2-Way PGM 12 Signals


Option [7] ON = Repeat Wireless 2-Way PGM 15 Signals

Option [8] OFF = Repeat Wireless 2-Way PGM 16 Signals (default)
Option [8] ON = Repeat Wireless 2-Way PGM 16 Signals

Enable or disable the repetition of MG-2WPGM signals in these sections. Enabling these options for MG-2WPGMs means that the repeater will retransmit any signals relevant to them.
7.1 **Switch to Stay Arming if no Entry Delay is opened**
Section [741]: Partition 1, Section [742] = Partition 2
Option [5] OFF = Switch to Stay Arming Disabled (default)
Option [5] ON = Switch to Stay Arming Enabled
If a user Regular arms a partition, but does not exit through (open and close) an entry delay zone during the exit delay, the control panel can be programmed to switch from Regular arming to Stay arming.

7.2 **When Delay Zone is bypassed Follow Zones become Entry Delay 2**
Section [741]: Partition 1, Section [742] = Partition 2
Option [6] OFF = Follow zones become entry delay 2 when delay zone is bypassed disabled (default)
Option [6] ON = Follow zones become entry delay 2 when delay zone is bypassed enabled
If a user has an entry point defined as a delay, and a motion detector set as a follow zone, this option allows the user to bypass a delay zone so that the motion detector becomes an entry delay 2 zone. For example, if a user has a malfunctioning door contact, they can bypass the delay zone and have the motion detector become an entry delay 2 zone so that they have sufficient time to disarm the system. All follow zones become entry delay 2 if at least one delay zone is bypassed.

7.3 **Regular Arming switches to Force Arming**
(Not to be used with UL Installations)
Section [704]: Arming/Disarming Options
Option [1] OFF = Regular Arming Switches to Force Arming Disabled
Option [1] ON = Regular Arming Switches to Force Arming Enabled (default)
With this feature enabled, the control panel will always Force arm (if a force-enabled zone is open, see Force Zones on page 19) instead of Regular arm when a valid user access code with the Force Arming Option is entered.

7.4 **Stay Arming switches to Stay Force Arming**
(Not to be used with UL Installations)
Section [704]: Arming/Disarming Options
Option [2] OFF = Stay Arming Switches to Stay Force Arming Disabled
Option [2] ON = Stay Arming Switches to Stay Force Arming Enabled (default)
With this feature enabled, the control panel will always Stay Force arm (if a force-enabled zone is open, see Force Zones on page 19) instead of Stay arm when a valid user access code with the Force Arming Option is entered.

7.5 **Sleep Arming switches to Sleep Force Arming**
(Not to be used with UL Installations)
Section [704]: Arming/Disarming Options
Option [3] OFF = Sleep Arming Switches to Sleep Force Arming Disabled
Option [3] ON = Sleep Arming Switches to Sleep Force Arming Enabled (default)
With this feature enabled, the control panel will always Sleep Force arm (if a force-enabled zone is open, see Force Zones on page 19) instead of Sleep arm when a valid user access code with the Force Arming Option is entered.

7.6 **Restrict Arming on Battery Failure**
Section [703]: Arming/Disarming Options
Option [5] OFF = Permit arming on battery failure (default)
Option [5] ON = Restrict arming on battery failure
If this option is enabled, the control panel will not arm the system if the control panel detects that the backup battery is disconnected, that its fuse is blown, or that the battery voltage drops to less than 10.5V. The control panel will not arm the system until all battery trouble conditions are rectified.

7.7 **Restrict Arming on Tamper Failure**
Section [703]: Arming/Disarming Options
Option [6] OFF = Permit arming on tamper failure (default)
Option [6] ON = Restrict arming on tamper failure
If this option is enabled, the control panel will not arm the system if the control panel detects a tamper trouble on one or more zones. The control panel will not arm the system until all tamper trouble conditions are rectified.

---

This feature will not function if the tamper recognition options (see Tamper Recognition on page 31) are disabled or whenever the tampered zone is bypassed and the tamper bypass options (see Tamper Bypass Options on page 32) have been enabled.
7.8 Restrict Arming on Wireless Supervision Trouble
Section [703]: Arming/Disarming Options
Option [7] OFF = Permit arming on wireless supervision failure (default)
Option [7] ON = Restrict arming on wireless supervision failure

If this option is enabled, the control panel will not arm the system if the control panel detects a wireless supervision trouble on one or more zones. The control panel will not arm the system until all wireless supervision trouble conditions are rectified.

This feature will not function if the tamper recognition options (see Tamper Recognition on page 31) are disabled or whenever the tampered zone is bypassed and the tamper bypass options (see Tamper Bypass Options on page 32) have been enabled.

7.9 Timed Auto-Arming
Section [741] = Partition 1, [742] = Partition 2
Option [1] OFF = Timed Auto-Arming Disabled (default)
Option [1] ON = Timed Auto-Arming Enabled

Each partition can be programmed to arm every day at the time specified by the Auto-arm Timer. The auto-arming options (see Auto-Arming Options on page 29) determine the partition's arming method. Any open zones detected when a partition is auto-armed will be bypassed regardless of their definition (except 24Hr zones). The control panel will enter a 60-second exit delay period before arming the system. At this point, auto-arming can be cancelled by entering a valid access code. Once the partition has successfully armed, the control panel can transmit the Timed Auto-arming report code programmed in section [860].

Example: To automatically arm partition 2 everyday at 6:15PM, enable Timed Auto-arming for partition 2 by turning on option [1] in section [742]. Then key in 18:15 into section [762].

7.10 No Movement Auto-Arming
Section [741] = Partition 1, [742] = Partition 2
Option [2] OFF = No Movement Auto-Arming Disabled (default)
Option [2] ON = No Movement Auto-Arming Enabled

If no movement occurs in a partition's protected area for the period specified by the No Movement Timer, the control panel can automatically arm that partition. The Auto-arming Option determines the partition's arming method. Any open zones detected when a partition is Auto-armed will be bypassed regardless of their definition (except 24Hr zones). Upon arming, the control panel will transmit the No Movement report code if programmed in section [860]. Regardless of whether the system was successfully armed or not, the control panel will always transmit the No Movement report code if programmed in section [860]. If No Movement Auto-arming is disabled, the control panel will still send the No Movement report code at the time specified by the No Movement Timer.

Example: To arm partition 1 whenever there is no movement for a period of 4 hours, enable No Movement Auto-arming for partition 1 by turning on the [2] Option in section [741]. Then in section [749] enter 016 (16x15min = 240min = 4 hours).

7.10.1 No Movement Timer
Section [749] = Partition 1, [750] = Partition 2
000 to 255 x15min, Default = Disabled

Select the section corresponding to the desired partition and program the interval of time without movement you wish the control panel to wait before arming and/or sending the No Movement report code. If No Movement Auto-arming is disabled, the control panel can still send the No Movement report code when no movement has been detected for the period specified by the No Movement Timer.
7.11 **Auto-Arming Options**  
(Not to be used with UL installations)  
Section [741] = Partition 1, [742] = Partition 2

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>[3]</td>
<td>[4]</td>
<td></td>
</tr>
<tr>
<td>OFF</td>
<td>OFF</td>
<td>Regular</td>
</tr>
<tr>
<td>OFF</td>
<td>ON</td>
<td>Sleep</td>
</tr>
<tr>
<td>ON</td>
<td>OFF</td>
<td>Stay</td>
</tr>
</tbody>
</table>

When using Timed Auto-arming or No Movement Auto-arming, the control panel can Regular, Sleep or Stay arm the selected partition.

7.12 **One-Touch Arming**  
(Not to be used with UL installations)  
Section [703]: Options [1] to [3]  

The One-touch arming features allow users to arm the system without having to enter any access codes. To arm the system, press and hold the appropriate key (see above) for approximately 3 seconds. If the system is partitioned, you must also press the key corresponding to the partition you wish to arm.

7.13 **One-Touch Bypass Programming**  
(Not to be used with UL installations)  
Section [703]: Options [4]  

Bypass programming allows users to program the alarm system to ignore (deactivate) specified zones the next time the system is armed. Press and hold the [BYP] key for three seconds to access bypass programming mode.

7.14 **Exit Delay**  
Section [745] = Partition 1, [746] = Partition 2  
001 to 255 seconds, Default = 60 seconds, **Maximum 60 seconds for UL Listed systems**

After entering the required arming sequence (i.e. user access code, etc.), the exit delay parameter determines the amount of time a user has to leave the protected area before the control panel arms the partition. The exit delay applies to all zones in the selected partition. When enabled, the keypad will beep once every second during the exit delay and will beep rapidly during the final 10 seconds of the exit delay.

7.14.1 **Beep On Exit Delay**  
Section [704]: Arming/Disarming Options  
Option [6] OFF = Beep on Exit Delay Disabled  
Option [6] ON  = Beep on Exit Delay Enabled (default)

7.15 **Bell Squawk On Arm/Disarm with Keypad**  
Section [704]: Arming/Disarming Options  
Option [5] OFF = Bell Squawk on Arm/Disarm Disabled (default)  
Option [5] ON  = Bell Squawk on Arm/Disarm Enabled

When this feature is enabled, the bell or siren will squawk once upon arming and twice upon disarming via the keypad.

7.16 **Bell Squawk On Arm/Disarm with Remote Control**  
Section [704]: Arming/Disarming Options  
Option [4] OFF = Bell Squawk on Arm/Disarm with Remote Control Disabled (default)  
Option [4] ON  = Bell Squawk on Arm/Disarm with Remote Control Enabled

When this feature is enabled, the bell or siren will squawk once upon arming with a remote control and twice upon disarming with a remote control. Must be enabled for UL installations.
7.17 No Exit Delay When Arming with Remote Control
Section [704]: Arming/Disarming Options
Option [8] OFF = Provides Exit Delay When Arming with a Remote Control (default)
Option [8] ON = No Exit Delay When Arming with a Remote Control

When the option is enabled, the panel cancels the exit delay (arms instantly) when a partition is armed with a remote control. When disabled, the exit delay timer will start when a partition is armed with a remote control.

7.18 No Exit Delay Beeps and No Bell Squawk When Stay/Sleep Arming
Section [704]: Arming/Disarming Options
Option [7] OFF = No Exit Delay Beeps and No Bell Squawk When Stay/Sleep Arming Disabled
Option [7] ON = No Exit Delay Beeps and No Bell Squawk When Stay/Sleep Arming Enabled (default)

With this feature enabled, the control panel will prevent the bell or siren from squawking and the keypads from beeping during the exit delay, whenever a partition is Stay/Sleep armed.

7.19 Exit Delay Termination
Section [700]: Arming/Disarming Options
Option [6] OFF = Exit Delay Termination (Disabled)
Option [6] ON = Exit Delay Termination Enabled (default)

When option [6] is enabled (ON), the panel will reduce the Exit Delay to 10 seconds when an Entry Delay zone is opened and closed during the Exit Delay.

Example: 15 seconds into a 45 second Exit Delay, an Entry Delay zone opens and closes. The remaining 30 seconds is reduced to 10 seconds.

7.20 Fast Exit
When the system is already Stay or Sleep armed: This feature will allow you to exit and keep the system armed. Press and hold the [OFF] key for 3 seconds to start the exit delay. After the exit delay has elapsed, the system will switch to its previous arming mode.
Part 8: Alarm Options

8.1 Bell Cut-Off Timer
Section [747] = Partition 1, [748] = Partition 2
000 = Disabled, 001 to 255 minutes, Default = 4 minutes, 5 minutes minimum for ULC installations

After an audible alarm, the bell or siren will stop upon disarming of the partition or when the Bell Cut-Off Timer has elapsed, whichever comes first.

8.2 Recycle Alarm
After the Bell Cut-Off Timer and the Recycle Delay have elapsed, the control panel will re-verify the zone status. If there are any open zones, the control panel will generate another alarm. In one armed period, the control panel will repeat this sequence the number of times defined by the Recycle Counter.

8.2.1 Recycle Alarm Delay
Section [714]
000 = disabled, 001 to 255 minutes, Default = Disabled

The Recycle Delay determines the amount of time after Bell Cut-Off that the control panel will wait before re-verifying zone status.

8.2.2 Recycle Alarm Counter
Section [715]
000 = disabled, 001 to 255, Default = Disabled

The Recycle Counter determines the number of times the control panel will re-verify the zone status after Bell Cut-Off in one armed period.

8.3 Tamper Recognition

8.3.1 Zones/RF Module and Keypad/Bus Module Tamper Recognition
Section [705]: Tamper Recognition Options

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>OFF</td>
<td>OFF</td>
<td>Disabled</td>
<td>TROUBLE ONLY</td>
</tr>
<tr>
<td>OFF</td>
<td>ON</td>
<td>TROUBLE ONLY</td>
<td>TROUBLE ONLY</td>
</tr>
<tr>
<td>ON</td>
<td>OFF</td>
<td>When disarmed: TROUBLE ONLY</td>
<td>TROUBLE ONLY</td>
</tr>
<tr>
<td></td>
<td></td>
<td>When armed: Follow zone’s alarm type</td>
<td></td>
</tr>
<tr>
<td>ON</td>
<td>ON</td>
<td>When disarmed: AUDIBLE ALARM</td>
<td>AUDIBLE ALARM</td>
</tr>
<tr>
<td></td>
<td></td>
<td>When armed: Follow zone’s alarm type</td>
<td></td>
</tr>
</tbody>
</table>

* Tamper recognition of keypad/bus module only if section [700] option [7] is enabled.

If a device has been tampered with (i.e. the anti-tamper switch has been set off), the Magellan MG5000 can generate a trouble, an alarm, and/or transmit a report code to the monitoring station. The system will react to an RF zone and a keypad/bus module differently.

8.4 RF and Keypad/Bus Module Supervision
Section [705]: Supervision Options

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>OFF</td>
<td>OFF</td>
<td>Disabled</td>
<td>Disabled</td>
</tr>
<tr>
<td>OFF</td>
<td>ON</td>
<td>TROUBLE ONLY</td>
<td>TROUBLE ONLY</td>
</tr>
<tr>
<td>ON</td>
<td>OFF</td>
<td>When disarmed: TROUBLE ONLY</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>When armed: Follow zone’s alarm type</td>
<td></td>
</tr>
<tr>
<td>ON</td>
<td>ON</td>
<td>When disarmed: AUDIBLE ALARM</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>When armed: Follow zone’s alarm type</td>
<td></td>
</tr>
</tbody>
</table>

The Magellan MG5000 waits for each of its assigned wireless transmitters to send a status signal within a specified time period to confirm their presence and functionality. If a device has not sent a signal within that time period, the Magellan MG5000 can generate a trouble, an alarm, and/or transmit a report code to the monitoring station. The system will react to an RF zone and a keypad/bus module differently.
8.5 Tamper Bypass Options
Section [705]: Zone Options
Option [5] OFF = Tampers on bypassed zones will be ignored
Option [5] ON = Will generate a tamper if detected on a bypassed zone (default)

With option [5] off, the Tamper Recognition feature follows the zone bypass definition. This means the control panel will ignore any tampers detected on a bypassed zone. With option [5] on, Tamper Recognition ignores the bypass definition. This means the control panel will generate an incident as per Tamper Recognition settings if a tamper or wire fault occurs on a bypassed zone.

8.6 Tamper Supervision on the Bus Module
Section [700]: Supervision Options
Option [7] OFF = Tamper supervision disabled (default)
Option [7] ON = Tamper supervision enabled

When the control panel detects a tamper on a bus module, the control panel can generate an alarm or trouble, unless the Tamper Supervision is disabled.

8.7 Keypad Panic Options
Section [702]: General Options
Option [1] OFF = Panic 1 Disabled (default)
Option [1] ON = Panic 1 Enabled

Pressing the [1] and [3] keys simultaneously on the keypad for 3 seconds will generate a silent or audible alarm as defined by option [4].

Option [2] OFF = Panic 2 Disabled (default)
Option [2] ON = Panic 2 Enabled

Pressing the [4] and [6] keys simultaneously on the keypad for 3 seconds will generate a silent or audible alarm as defined by option [5].

Option [3] OFF = Panic 3 Disabled (default)
Option [3] ON = Panic 3 Enabled

Pressing the [7] and [9] keys simultaneously on the keypad for 3 seconds will generate a silent or audible alarm as defined by option [6].

Option [4] OFF = Panic 1 is Silent (default)
Option [4] ON = Panic 1 is Audible

Option [5] OFF = Panic 2 is Silent (default)
Option [5] ON = Panic 2 is Audible

Option [6] OFF = Panic 3 is Silent (default)
Option [6] ON = Panic 3 is Audible

Silent alarm:
The control panel emits a confirmation beep and transmits the appropriate Panic report code if programmed in section [863]. The control panel will not enable the keypad buzzers or the control panel’s BELL output (no audible alarm).

Audible alarm:
Same as silent alarm, except the keypad buzzers and the BELL output will activate until a user cancels the alarm (disarms) with a valid user access code or when the Bell Cut-Off Timer elapses (see Bell Cut-Off Timer on page 31).

Whether the system is partitioned or not, the control panel will report all panic alarms to partition 1.

8.8 Panic Lockout Timer
Section [718]
When a panic alarm is activated, the control panel can ignore the disarm signal from a remote control for a specified period. This prevents an aggressor from disarming the system by remote control during a panic situation. In section [718] enter a 3-digit value (000 to 255, 000 = disabled) representing the number of seconds that the remote controls will be locked out of the system.

8.9 Stay/Sleep Arm Alarm Delay
Section [720]
The Sleep Arm Alarm Delay is used to prevent false alarms when the premises is Stay/Sleep armed. In section [720] enter a 3-digit value (000 to 255, 000 = disabled) representing the number of seconds that the panel will delay an alarm allowing you to disarm the system (default 15 seconds).
Part 9: Reporting and Dialer settings

The following section explains all the features and options that must be programmed in order for your security system to properly report system events to a monitoring station. When an event (e.g. zone in alarm) occurs in the system, the control panel verifies if a report code was programmed in the section corresponding to the event (except Ademco Contact ID “All Codes”). If a report code was programmed, the control panel will dial the monitoring station telephone number defined by the Event Call Direction feature. When the monitoring station answers, the control panel will transmit the System Account Code, followed by the programmed report code.

9.1 Zone Reporting Codes
Sections [141] to [172]
A report code can be programmed for each of the available 32 zones. When an alarm, alarm restore, tamper, or tamper restore occurs on a zone, the control panel can send the appropriate report code to the monitoring station.

9.2 User Reporting Codes
Sections [471] to [502]
A report code can be programmed for each of the available 32 users. When a user arms, disarms or cancels an alarm, the control panel can send the appropriate report code to the monitoring station.

9.3 Special Arming Report Codes
Sections [860] and [861]
when the system is armed using one of the special arming features listed below, the control panel can send the appropriate report code to the monitoring station identifying how the system was armed.

Section [860]
• Auto-Arming: A partition has armed itself at the programmed time.
• Late to Close: Reports every day at the time specified by the Auto-arm Timer.
• No Movement: No movement has been detected for the programmed amount of time in the partition.
• Partial Arming: A partition was Stay, Sleep, or Force armed or armed with Bypassed zones.

Section [861]
• Quick Arming: A partition was armed using a One-touch arming feature.
• Arming via PC: A partition was armed using the Winload software.
• N/A
• N/A

9.4 Special Disarming Report Codes
Section [862]
When using one of the special disarming features, the control panel can send the report code to the monitoring station, identifying how the system was disarmed.

• Cancel Auto-Arm: A partition is disarmed during the Timed Auto-arm’s 60-second exit delay. Only reports if Disarming Reporting Options are set to always report disarming.
• Disarming via PC: System is disarmed using the WinLoad software. Only reports if Disarming Reporting Options are set to always report disarming.
• Cancel alarm with user or WinLoad: An alarm is cancelled using the WinLoad software.
• Cancel Paramedic Alarm: A paramedic alarm is cancelled.

9.5 Special Alarm Report Codes
Sections [863] and [864]
When the system generates an alarm due to one of the conditions listed below, the control panel can send the appropriate report code to the monitoring station identifying the type of alarm.

Section [863]
• Emergency Panic: Panic keys [1] and [3] have been pressed.
• Auxiliary Panic: Panic keys [4] and [6] have been pressed.
• Fire Panic: Panic keys [7] and [9] have been pressed.
• Recent Closing: Reports when an alarm is generated after arming the system within period defined by the Recent Close Delay.

Section [864]
• Zone Shutdown: A zone communicates more than the programmed number of transmissions in a single armed period.
• Duress: A Duress access code is keyed in.
• Keypad Lockout: If a consecutive number of invalid codes are entered into a keypad, the control panel can be set to deny access from all keypads for a specified period.
• Paramedic Alarm: A paramedic alarm is sent to the monitoring station.
9.6 System Trouble Report Codes

Section [865] to [869]

When the system generates one of the instances listed below, the control panel can send the appropriate report code to the monitoring station identifying the type of system trouble.

Section [865]
- AC Failure: The control panel has detected a loss of AC power. Transmission of this report code can be delayed.
- Battery Failure: Backup battery is disconnected or battery voltage is low.
- Auxiliary Supply: Auxiliary power supply has overloaded.

Section [866]
- Bell Output Overload: Bell/siren output has overloaded.
- Bell Output Disconnected: Devices connected to the Bell Output have been disconnected.
- Timer Loss: The control panel has detected a loss in time or clock failure.
- Fire Loop Trouble: The control panel has detected a tamper trouble on a fire zone.

Section [867]
- Bell Output Overload: Bell/siren output has overloaded.
- RF Interference: Will report if the RF signal is being jammed.
- Module Lost: The control panel has failed to communicate with one or more modules (including keypads).
- Module Tamper: The anti-tamper switch of a module (including keypads) has been triggered.

Section [868]
- Module AC Fail: The AC voltage of a module has dropped below recommended limits.
- Module Low/No Battery: The battery voltage of a module has dropped below recommended limits.
- Wireless Zone Low Battery: The battery voltage of a Magellan wireless transmitter has dropped below recommended limits.
- Wireless Zone Supervision Lost: The control panel has lost communication with a wireless zone.

Section [869]
- Wireless PGM Supervision Lost: The control panel has lost communication with a wireless PGM.
- Wireless PGM Tamper: The anti-tamper switch of a wireless PGM has been triggered.
- N/A
- N/A

9.7 System Trouble Restore Report Codes

Sections [870] to [874]

When the system restores one of the troubles listed in System Trouble Report Codes above, the control panel can send the appropriate report code to the monitoring station identifying the type of system trouble restore. If Telephone Line Monitoring is enabled, the control panel can also transmit a TLM Restore report code.

9.8 System Special Report Codes

Sections [875] to [876]

When the system generates one of the instances listed below, the control panel can send the appropriate report code to the monitoring station identifying the type of system occurrence.

Section [875]
- Cold Start: The control panel was completely shutdown (no battery, no AC) and then was re-started.
- Test Report: A test report has been generated automatically.
- WinLoad In: The control panel has commenced communication with WinLoad.
- WinLoad Out: The control panel has ended communication with WinLoad.

Section [876]
- Installer In: Installer/Maintenance has entered the programming mode.
- Installer Out: Installer has exited the programming mode.
- Closing Delinquency: The control panel will send a Closing Delinquency report code if the system has not been armed within a programmed amount of days.
- N/A
9.9 Monitoring Station Telephone Numbers
Section [815] = Phone #1, [816] = Phone #2, [817] = Backup Phone #, [818] = Pager #, [819] = Numeric Message Sent with Pager Reporting: Up to 32 digits

The MG5000 control panel can dial up to 2 different monitoring station telephone numbers. You can enter any digit from 0 to 9 and any special keys or functions (see Table 6 on page 35) up to a maximum of 32 digits. After the maximum dialing attempts (see Maximum Dialing Attempts on page 37) to one monitoring station telephone number have failed, the control panel will then dial the backup telephone number. If the Alternate Dial Option (see Alternate Dial Option on page 37) is enabled, the control panel will dial the programmed backup telephone number after every failed attempt. If no backup telephone number is programmed, the control panel will never report to the backup telephone number. Also see Delay Between Dialing Attempts on page 37.

<table>
<thead>
<tr>
<th>Press</th>
<th>Action or Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>[OFF]</td>
<td>*</td>
</tr>
<tr>
<td>[BYP]</td>
<td>#</td>
</tr>
<tr>
<td>[MEM]</td>
<td>switch from pulse to tone dialing or vice versa</td>
</tr>
<tr>
<td>[TBL]</td>
<td>4-second pause</td>
</tr>
<tr>
<td>[SLEEP]</td>
<td>deletes current digit</td>
</tr>
<tr>
<td>[C]</td>
<td>inserts blank space</td>
</tr>
</tbody>
</table>

Table 6: Special Keys for Telephone Numbers

9.10 Personal Dialing Numbers
Personal Dialing numbers are personal numbers (e.g. cellular, office) that the MG5000 can call in case of an alarm or panic. To program these five numbers see the Communicator Menu in either the Master or User Quick Menu. To set the call parameters, see options [5], [6], and [7] of section [804].

The MG5000 will call these personal numbers if programmed in the event of any panic or alarm (default) and sound a bell tone. To program the delay between the call attempts, see section [832]. The MG5000 can also be programmed to delay before sounding the bell tone, which can be programmed in section [836].

The default delay is 20 seconds. To determine the length of time the bell tone sounds on the phone line, see section [837]. The default value is 003, meaning the 10 second bell tone will repeat itself 3 times after the initial sequence (total = 40 seconds).

9.11 Reporting Formats
Section [810]: 1st digit = Format for Phone #1, 2nd digit = Format for Phone #2
The MG5000 can use a number of different reporting formats and each monitoring station telephone number can be programmed with a different reporting format. The first digit entered into section [810] represents the reporting format used to communicate with Monitoring Station Telephone Number 1, the second digit represents the reporting format used to communicate with Monitoring Station Telephone Number 2. The Backup Telephone Number uses the same reporting format as the last monitoring station telephone number that was dialed.

<table>
<thead>
<tr>
<th>Value Entered</th>
<th>Reporting Format</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Ademco Slow (1400Hz, 1900Hz, 10BPS)</td>
</tr>
<tr>
<td>1</td>
<td>Silent Knight Fast (1400Hz, 1900Hz, 10BPS)</td>
</tr>
<tr>
<td>2</td>
<td>SESCOA (2300Hz, 1800Hz, 20BPS)</td>
</tr>
<tr>
<td>3</td>
<td>Ademco Express (DTMF 4+2)</td>
</tr>
<tr>
<td>4</td>
<td>Ademco Contact ID</td>
</tr>
<tr>
<td>5</td>
<td>SIA</td>
</tr>
</tbody>
</table>

If Hexadicimals (0 to FF) are used to program the report codes, verify that the pager also supports Hexadicimals. If the pager does not support Hexadicimals, use only the digits 0 to 9.

UL Note: The installer is required to verify the complete compatibility of the DAC Receiver and formats at least once per year.

9.11.1 Standard Pulse Formats
The Magellan MG5000 can use the Ademco slow, Silent Knight and Sescoa standard pulse reporting formats which will transmit the 2-digit (00 to FF) report codes programmed into sections [860] to [876]. (see Table 7 on page 35).
9.11.2 Ademco Express
The Ademco Express is a high-speed reporting format, which will transmit the 2-digit (00 to FF) report codes programmed into sections [860] to [876].

9.11.3 Ademco Contact ID
Ademco Contact ID is a fast communicator format that uses tone reporting instead of pulse reporting. This communicator format also uses a pre-defined list of industry standard messages and report codes that will suit most of your basic installation needs. Please refer to the Contact ID Report Codes List in the Programming Guide for a complete list of these report codes and messages. If the reporting codes are set at 0xFF, the MG5000 will send the appropriate report code from the Automatic Report Code List in the MG5000 Programming Guide. Alternatively, report codes can be programmed using the Ademco Contact ID Report Codes in the MG5000 Programming Guide.

9.11.4 Event Call Direction
Section [802]: Options [1] to [3]; Arming/Disarming
Option [1] ON = Call MSTN 1
Option [2] ON = Call MSTN 2
Option [3] ON = Call Pager telephone number
Section [802]: Options [5] to [7]; Alarm/Alarm Restore
Option [5] ON = Call MSTN 1
Option [6] ON = Call MSTN 2
Option [7] ON = Call Pager telephone number
Section [803]: Options [1] to [3]; Tamper/Tamper Restore
Option [1] ON = Call MSTN 1
Option [2] ON = Call MSTN 2
Option [3] ON = Call Pager telephone number
Section [803]: Options [5] to [7]; Trouble/Trouble Restore
Option [5] ON = Call MSTN 1
Option [6] ON = Call MSTN 2
Option [7] ON = Call Pager telephone number
Section [804]: Options [1] to [3]; Special Reporting
Option [1] ON = Call MSTN 1
Option [2] ON = Call MSTN 2
Option [3] ON = Call Pager telephone number
Section [804]: Options [5] to [7]; Special Reporting
Option [1] ON = Call voice on zone alarm (burglary/fire)
Option [2] ON = Call voice on panic alarms
Option [3] ON = Call voice on paramedic alarm

The events are divided into six groups (see above) where each event group can be programmed to dial up to three telephone numbers (MSTN 1 & 2 and the Pager telephone number).

When a reportable event occurs in the system, the Magellan console will begin dialing the numbers sequentially starting from MSTN 1 (if enabled), skipping any disabled numbers and stopping once all selected telephone numbers have been called. After a certain amount of failed attempts (section [837]) at trying to call the monitoring station, the console will then dial the selected backup telephone number (if enabled; see Programming Guide). If the Alternate Dial option is enabled, the console will dial the programmed backup telephone number (if enabled) after every failed attempt. If no backup telephone number is programmed, the console will never report to the backup telephone number.

Example: The system is armed and zone 1 has been breached causing an alarm. If options [5] and [7] are OFF and option [6] is ON in section [802], the console will attempt to communicate with MSTN 2.

9.11.5 Account Numbers
Section [811]: Partition 1, Section [812]: Partition 2

All report codes are preceded by a 4-digit or 3-digit Partition Account Number to ensure correct identification in a partitioned system. Partition account numbers can be any hexa-digit from 1 to F. To enter a 3-digit account number, simply press the [FORCE] key followed by a 3-digit account number. Also, when using 3-digit account numbers, you must use 1-digit report codes.

9.12 Dialing Method
Section [800]: Dialer Options
Option [6] ON = Tone/DTMF Dialing (default)
9.13 **Pulse Ratio**
Section [800]: Dialer Options
Option [7] OFF = European Pulse Ratio of 1:2
Option [7] ON = U.S.A. Pulse Ratio of 1:1.5 (default)

When using Pulse dialing, you can select one of two Pulse Ratios. Although most European countries use the 1:2 pulse ratio, the 1:1.5 ratio may provide better results in some cases. The same applies for North American countries. If the 1:1.5 pulse ratio is not providing the desired results, the 1:2 ratio may be used.

9.14 **Maximum Dialing Attempts**
Section [831]
000 to 255 attempts, Default = 8 attempts

The value programmed in section [081] determines how many times the control panel will re-dial the same monitoring station telephone number before proceeding to the next number.

9.15 **Delay Between Dialing Attempts**
Section [832]
000 to 255 seconds, Default = 20 seconds

This delay determines the amount of time the control panel will wait between each dialing attempt.

9.16 **Switch to Pulse on 5th Attempt**
Section [800]
Option [3] OFF = Switch to Pulse on 5th Attempt Disabled (default)
Option [3] ON = Switch to Pulse on 5th Attempt Enabled

With option [3] ON, the control panel will switch to pulse dialing on the 5th attempt of reaching the monitoring station.

9.17 **Alternate Dial Option**
Section [800]: Dialer Options
Option [4] OFF = Alternate Dial Disabled (default)
Option [4] ON = Alternate Dial Enabled

With option [4] OFF, the control panel will dial the backup telephone number programmed in section [817] after all attempts to one monitoring station telephone number have failed. With option [4] ON, the control panel will dial the backup telephone number after every failed attempt.

9.18 **Force Dial Option**
Section [800]: Dialer Options
Option [5] ON = Force Dial Enabled (default)

With option [5] is enabled, the panel will dial a telephone number even if no dial tone is present after 4 seconds.

9.19 **Recent Closing Delay**
Section [838]
000 = Disabled, 001 to 255 seconds, Default = Disabled

If after having armed the system, an alarm is generated within the period defined by the Recent Close Delay, the control panel will attempt to transmit the Recent Close report code programmed in section [863].

9.20 **Auto Test Report**
Sections [840]
000 = Disabled, 001 to 255 days, Default = Disabled
Section [850]: Time (HH:MM)

The control panel will transmit the Test Report report code programmed into section [875] after the number of days programmed into section [840] has elapsed at the time programmed into section [850]. Use the 24-hour clock to program the time (i.e. 6:30PM = 18:30). The first Test Report will be transmitted within 24 hours after the feature is enabled at the time programmed in [850].

**Example:** Section [840] = 005 and section [850] = 13:00. The first Test Report will be sent at 1 PM that day and then the report will be sent every 5 days at 1 PM.
9.21 Closing Delinquency Delay
Section [719]
000 = Disabled, 001 to 255 days, Default = Disabled

At midnight every day, the control panel will verify when the partition was last disarmed. If the partition has not been armed within the time programmed in the Closing Delinquency Delay, the control panel will transmit a Closing Delinquency event to the monitoring station.

Example: The Closing Delinquency Timer for partition 1 in section [719] is programmed for 005 days. Magellan verifies when partition 1 was last disarmed at midnight every day. If partition 1 was not armed within the last 5 days, Magellan will transmit a Closing Delinquency event to the monitoring station. The Closing Delinquency Event and timer apply only to partition 1.

9.22 Power Failure Report Delay
Section [839]
001 to 255 minutes, Default = 15 minutes

The control panel will transmit the AC Failure report code programmed in section [865] after the Power Failure Report Delay period has elapsed.

9.23 Report System Disarming
Section [801]: Arming /Disarming Options
Option [1] OFF = Always Report Disarming
Option [1] ON = Report Disarming Only After Alarm (default)

With option [1] OFF, the control panel will send the Disarming report codes (see Special Disarming Report Codes on page 33) to the monitoring station every time the system is disarmed. With option [1] ON, the control panel will send the Disarming report codes to the monitoring station when the system is disarmed following an alarm.

9.24 Zone Restore Report Options
Section [801]: Zone Options
Option [2] ON = Report On Zone Closure

With option [2] OFF, the MG5000 will send the Zone Alarm Restore report codes to the monitoring station when the zone has returned to normal and the Bell Cut-Off Timer has elapsed. With option [2] ON, the MG5000 will send the Zone Alarm Restore report codes to the monitoring station as soon as the zone returns to normal or when the system is disarmed.

9.25 Telephone Line Monitoring (TLM)
When enabled, the system verifies the existence of a telephone line once every second. A line test failure occurs when the TLM detects less than 3 volts for the period defined by the TLM Fail Timer. If the line test fails, the control panel’s STATUS LED flashes and generates one or more conditions as defined by the TLM settings below. These will be restored when the control panel detects the telephone line again. Please note that when the dialer detects an incoming call, the TLM test will stop for 1 minute.

Section [800]: Dialer Options
Upon line test failure, a TLM Trouble will appear in the keypad’s trouble display (see Trouble Display on page 46).

Upon line test failure, a TLM Trouble will appear in the keypad’s trouble display (see Trouble Display on page 46) and if the system is armed, the control panel will generate an audible alarm.

Upon line test failure, a TLM Trouble will appear in the keypad’s trouble display (see Trouble Display on page 46) and causes a silent zone or silent panic alarm to switch to audible.

9.25.1 TLM Fail Timer
Section [830]
016 to 255 x 2 seconds, Default = 32 seconds

If TLM does not detect the existence of a telephone line for the duration of this period, the control panel will generate the condition(s) defined by the TLM options.
9.26  Pager Reporting Delay
Section [834]: Communication Timers
000 to 255 seconds, Default = 20 seconds
When using the Pager Reporting Format, the control panel will wait for the Pager Delay period before transmitting the report codes. This is to allow time for the pager system to provide a dial tone or to bypass the "welcome" message before sending data.

9.27  Pager Reporting Message Repetition
Section [835]: Communication Timers
000 to 255 times, Max. 10, Default = 3
When using the Pager Reporting Format, the control panel will repeatedly send the report codes to the pager until the transmission has been acknowledged.

9.28  Personal Reporting Delay
Section [836]: Communication Timers
000 to 255 times, Max. 127, Default = 5
When using the Personal Reporting Format, the control panel will wait for the Personal Delay period before transmitting the report codes. This is to allow time for the system to provide a dial tone or to bypass the "welcome" message before sending data.

9.29  Personal Reporting Message Repetition
Section [837]: Communication Timers
000 to 255 times, Max. 10, Default = 3
When using the Personal Reporting Format, the control panel will repeatedly send the report codes to the pager until the transmission has been acknowledged.
Part 10: Programmable Outputs

A PGM is a programmable output that toggles to its opposite state (i.e. a normally open PGM will close) when a specific event has occurred in the system. For example, a PGM can be used to activate bells or strobe lights, open/close garage doors and much more. When a PGM activates, the control panel triggers any device or relay connected to it. The Magellan console includes two onboard PGMs. It can support up to a total of 16 PGMs (e.g., 2 onboard PGMs + 14 wireless PGMs OR 16 wireless PGMs).

A Wireless PGM module can be assigned to any PGM. It will work in parallel with the Control Panel Output.

10.1 PGM Activation Event

Sections [220], [222], [224], [226], [228], [230], [232], [234], [236], [238], [240], [242], [244], [246], [248], and [250]

This feature allows you to program the control panel to activate a PGM when a specific event occurs in the system. The PGM will remain in its active state until the programmed PGM Deactivation Event occurs or when the PGM Delay period elapses. For the Event List see the Magellan MG5000 Programming Guide. To program a PGM Activation Event:

1) Enter section that represents the desired PGM. PGM1 = [220], PGM2 = [222], etc.
2) Enter the Event Group #.
3) Enter the Sub-Group #.
4) Enter the Partition # (01 = Partition 1 02 = Partition 2 99 = Both Partitions)

The “AC Loss” PGM Event will only occur after the power failure report delay elapses (see Power Failure Report Delay on page 38).

10.2 PGM Deactivation Event

Sections [221], [223], [225], [227], [229], [231], [233], [235], [237], [239], [241], [243], [245], [247], [249], and [251]

After PGM activation, the PGM will return to its normal state (deactivate) when the programmed PGM Deactivation Event occurs. Instead of deactivating the PGM when a specific event occurs, the PGM can deactivate after a programmed period elapses (see PGM Delay on page 40). For the Event List see the Magellan MG5000 Programming Guide. If using the PGM Delay, these sections can be used as a second activation event.

1) Enter section that represents the desired PGM. PGM1 = [221], PGM2 = [223], etc.
2) Enter the Event Group #.
3) Enter the Sub-Group #.
4) Enter the Partition # (01 = Partition 1 02 = Partition 2 99 = Both Partitions)

10.3 PGM Delay

Section [281] = PGM 1 to [296] = PGM 16, 001 to 255 sec./min., 000 = Follows Deactivation Event, Default = 5 seconds

Instead of deactivating the PGM on the occurrence of a specific event, the PGM will deactivate after the period programmed here has elapsed.

If a PGM Delay is programmed, the deactivation event can be used as a second activation event.

10.4 PGM Options

Section [261] to [276]: PGM Options

Option [1] OFF = PGM Base Time in Seconds (default)
Option [1] ON = PGM Base Time in Minutes
This option sets the PGM delay in increments of minutes or seconds.

Option [2] ON = PGM State Normally Closed (N.C.)

Option [3] OFF = PGM Supervision Disabled
Option [3] ON = PGM Supervision Enabled (default)
If enabled, the panel can wait for each of its assigned wireless transmitters to send a status signal within a specified time to confirm their presence and functionality.

Option [4] OFF = PGM Activation Mode Steady (default)
Option [4] ON = PGM Activation Mode Pulse
This option sets the PGM to be either steady (ON), or pulsed (ON/OFF) when it is activated.
Option [5] OFF = PGM Pulse once every 30 seconds disabled (default)
Option [5] ON = PGM Pulse once every 30 seconds enabled
When armed, the PGM will pulse once every 30 seconds.

Option [6] OFF = PGM Pulse on any alarm disabled (default)
Option [6] ON = PGM Pulse on any alarm enabled
This option sets the PGMs to pulse on any alarm.

Option [7] OFF = PGM Pulse on any alarm Partition 1 (default)
Option [7] ON = PGM Pulse on any alarm Partition 2
Program PGMs to pulse during an alarm for either partition. With this feature enabled, and in combination with the Follow Arm/Stay Arm/Sleep Arm PGM type, the PGM will mimic the Arm LED.

10.5 PGM Programming
Sections [301] to [316]
The programming of the PGMs is accomplished in two steps:
1. Assign the PGMs to the Magellan MG5000.
2. Program the zones.

PGM Programming can be executed through the Installer Quick Menu in the MG5000 Programming Guide.

How Do I Assign PGMs to the MG5000?
1) Press the [ENTER] key.
2) Enter your [INSTALLER CODE] (default: 0000 / 000000) or [MAINTENANCE CODE] (default 1111/111111)
3) Enter the desired [SECTION NUMBER] (from sections [301] to [316]).
4) Enter the 6-digit [SERIAL NUMBER] of the PGM.

How Do I Delete Assigned PGMs?
1) Press the [ENTER] key.
2) Enter your [INSTALLER CODE] (default: 0000 / 000000) or [MAINTENANCE CODE] (default 1111/111111)
3) Enter the desired [SECTION NUMBER] (from sections [301] to [316]).
4) Press the [0] key six times to clear the serial number.

10.6 Viewing the PGM Signal Strength
Sections [321] to [336]
Once PGMs have been installed and assigned to the Magellan MG5000, the signal strength of each PGM can be verified in sections [321] to [336]. Sometimes moving the PGM or control panel by a small amount will greatly increase the signal reception.

How Do I View a Wireless Transmitter’s Signal Strength?
1) Press the [ENTER] key.
2) Enter your [INSTALLER CODE] (default: 0000 / 000000) or [MAINTENANCE CODE] (default 1111/111111)
3) Enter the desired [SECTION NUMBER] (from sections [321] to [336]).
4) Press the transmitter’s anti-tamper switch or open the corresponding zone.
5) The keypad will illuminate numbers 1 to 10.

Signal Strength Indicator
8 to 10 / 3 beeps = Best signal
5 to 7 / 2 beeps = Average signal
1 to 4 / 1 beep = Weak signal (Relocate)
11.1 Version Number Display
Enter section [980] to view the version number of the panel. The first digit will appear. Press [ENTER] to scroll through each consecutive digit (the keypad will beep twice after every digit in the version number). Once the version number has been fully displayed, an acknowledgement beep (3 beeps) will sound and the first digit will be displayed again.

11.2 Push Button Power Reset
Performing a hardware reset will set all control panel settings to factory default except for the Panel ID and PC Password. Also, the event buffer will not be erased. To perform a push button power reset:
Press and hold the RESET switch for five seconds. The STATUS LED will start flashing fast. Within 2 seconds of this flashing, press the reset switch again. The panel will reset to default and restart.

11.3 Installer Lock
Section [395]
000 = Disabled, 147 = Lock Enabled, Default = Disabled
Program 147 into section [395] to lock all programming. Performing a hardware reset will not affect the current panel settings. To remove the Installer Lock, enter 000. Please note that three seconds after turning on the control panel the STATUS LED and the relay on the control panel will flash fast for 6 seconds to indicate that the installer lock is enabled. Once enabled, the panel cannot be reset.

11.4 Keypad Lockout Feature
Sections [864]
If a consecutive number of invalid codes are entered into a keypad, the control panel can be set to deny access from all keypads for a specified period and send the report code programmed in section [864]. Program the number of consecutive invalid codes from 001 to 255 (000 = disabled) into section [717]. Program the duration of the Keypad Lockout from 001 to 255 minutes into section [716].

11.5 Battery Charge Current
Section [700]: General Options
Option [2] OFF = Battery Charge Current: 350mA (default)
Option [2] ON = Battery Charge Current: 700mA (40VA transformer required)

11.6 Partitioning
Section [700]: General Options
Option [1] OFF = Partitioning Disabled (default)
Option [1] ON = Partitioning Enabled
The MG5000 is equipped with a partitioning feature which can divide the alarm system into two distinct areas identified as Partition 1 and Partition 2. Partitioning can be used in installations where shared security systems are more practical, such as an office/warehouse building. When partitioned, each zone, each user code (see Access Codes on page 11) and some of the system's features can be assigned to Partition 1, Partition 2 or both. **If the system is not partitioned, all user codes and features will be recognized as belonging to Partition 1.**

- Users can only arm partitions to which they have been assigned.
- Only zones assigned to Partition 1 will arm/disarm when Partition 1 is armed or disarmed.
- Only zones assigned to Partition 2 will arm/disarm when Partition 2 is armed or disarmed.
- Zones assigned to both partitions will arm when both partitions are armed and will disarm when at least one disarms.
- The following features can be programmed separately for each partition: Entry/Exit Delay Timer, Auto-arming Options, Bell Cut-Off Timer, Switch to Stay arming, PGM Events and Account Numbers.

**If the system is not partitioned, all zones, user codes, and features will be recognized as belonging to partition 1. Zones that have been manually assigned to partition 2 will no longer function.**
11.7 **Confidential Mode**
Section [701] Options [3], [4] and [5]
Option [3] OFF = Confidential Mode Disabled (default)
Option [3] ON = Confidential Mode Enabled
Option [4] OFF = Keypads activate when an access code is entered (default)
Option [4] ON = Keypads activate when a key is pressed
Option [5] OFF = Confidential Mode Timer is 2 minutes (default)
Option [5] ON = Confidential Mode Timer is 5 seconds

If Confidential Mode is enabled and no actions are performed on the keypads for the time defined by the Confidential Mode Timer, all the keypad’s LEDs will be off until either a key is pressed or an access code is entered. When the system exits Confidential Mode, the keypads will display the system’s status. Confidential Mode is activated by enabling option [3]. Option [4] regulates whether the keypads will be activated at the touch of a key or only when an access code is entered. Option [5] determines the amount of time without action before the system enters Confidential Mode (5 seconds or 2 minutes).

11.8 **Installer Function Keys**
To access the Installer Function keys, press:

[ENTER]+[INSTALLER CODE]+[MEM] = Test Report: Send the “Test Report” report code programmed in section [875] to the monitoring station.
[ENTER]+[INSTALLER CODE]+[STAY] = Cancel Communication: Cancels all communication with the WinLoad software or with the monitoring station until the next reportable event.
[ENTER]+[INSTALLER CODE]+[SLEEP] = Answer WinLoad Software: Will force the console to answer an incoming call from the monitoring station that is using the WinLoad software.
[ENTER]+[INSTALLER CODE]+[BYP] = Call WinLoad Software: Will dial the PC telephone number programmed in section [915] in order to initiate communication with a computer using the WinLoad software.
[ENTER]+[INSTALLER CODE]+[TBL] = Installer Test Mode: The installer test mode will allow you to perform walk tests where the siren will squawk to indicate opened zones. Press the [TBL] key again to exit.

11.9 **Daylight Savings Time**
Section [730]: General Zone Options 2
Option [1] OFF = Daylight Savings Time Disabled (default)
Option [1] ON = Daylight Savings Time Enabled

With section [730] option [1] ON, Magellan adjusts the system’s clock (time) for daylight savings changes. At 2:00AM on the first Sunday of a full weekend in April, the console will add one hour to the programmed time (clock). At 2:00 AM on the last Sunday of a full weekend in October, the console will subtract one hour from the programmed time (clock). By default, when section [730] is set at 00, the time is set for the US, Canada etc. For other countries see Daylight Savings Programming in the MG5000 Programming Guide and set the country code in section [731].

11.10 **Audible Trouble Warning Except AC Failure**
Section [700]: General System Options
Option [3] OFF = Audible trouble warning except AC failure
Option [3] ON = Audible trouble warning except AC failure (default)

When this option is enabled the panel will generate an audible trouble warning on all troubles except AC failure.

11.11 **Audible Trouble Warning on AC Failure**
Section [700]: General System Options
Option [4] OFF = Audible trouble warning on AC failure (default)
Option [4] ON = Audible trouble warning on AC failure

When this option is enabled the panel will generate an audible trouble warning in the event of an AC failure.
WinLoad has not been verified by UL.

12.1 Panel Answer Options
The following two options define how the control panel answers an incoming call from a computer using the WinLoad Software for Windows®.

12.1.1 Answering Machine Override Delay
Section [902]
000 = Disabled, 000 to 255 seconds, Default = 030
When using the WinLoad software to communicate with an installation site that uses an answering machine or service, the answering machine override must be programmed. Using the WinLoad software you will call the control panel, hang up, then call back. If the installation site is called back within the programmed delay period, the control panel will override the answering machine or service by picking-up the line after the first ring on the second call. You must wait at least 10 seconds before attempting the second call, otherwise, the control panel will think it is the same call. For details on how to use the WinLoad software, refer to the WinLoad Help Manual.

Example: A security installation is using an answering machine set to answer after three rings. If section [902] has been programmed with 040 (40 seconds) and the second call is made within 40 seconds, the control panel will pick up the line on the first ring. If it takes more than 40 seconds, the control panel will not answer on the first ring and the answering machine will answer after three rings.

12.1.2 Number of Rings
Section [901]
000 = disabled, 001 to 015 rings, Default = 8 rings
This value represents the number of rings the control panel will wait before picking-up the line. If the line is not answered after the number of programmed rings, the control panel will answer the call.

12.2 Panel Identifier
Section [910]
0000 to FFFF
This 4-digit code identifies the control panel to the WinLoad software before initiating communication. The control panel will verify that the Panel Identifier in the WinLoad software is the same. If the codes do not match, the control panel will not establish communication. Therefore, be sure to program the same panel identifier into both the Magellan control panel and the WinLoad software.

12.3 PC Password
Section [911]
0000 to FFFF
This 4-digit password identifies the PC to the panel before establishing communication. Program the same PC Password into both the Magellan control panel and the WinLoad software. If the passwords do not match, the WinLoad software will not establish communication.

12.4 PC Telephone Number
Section [915]
Up to 32 digits
The control panel will dial this number when trying to initiate communication with a computer using the WinLoad software. You can enter any digit from 0 to 9 and any special keys or functions up to a maximum of 32 digits.

12.5 Call WinLoad Software
[ENTER]+ [INSTALLER CODE] + [BYP]
The control panel will dial the PC Telephone Number programmed in section [915] in order to communicate with the WinLoad software. The control panel and the WinLoad software will verify that the Panel Identifier and the PC Password match before establishing communication.
12.6 Answer WinLoad Software

[ENTER] + [INSTALLER CODE] + [FORCE]

In order to perform on-site upload/download connect your computer directly to the control panel using an ADP-1 line adapter. In the WinLoad software set Dialing Method to Blind Dial. Program the panel telephone number in WinLoad software and follow the instructions on the ADP-1 adapter. When the computer has dialed, press [ENTER] followed by the Installer/Maintenance Code, then press the [SLEEP] key to manually answer the WinLoad software from the control panel.

12.7 Automatic Event Buffer Transmission

Section [900]: Dialer Options
Option [2] ON = Auto Event Buffer Transmission Enabled

When the event buffer reaches 90% capacity, the control panel will make two attempts to establish communication with a PC using the WinLoad software by calling the PC Telephone Number programmed in section [915]. The WinLoad software must be in Wait to Dial mode. When the system establishes communication, it will upload the contents of the event buffer to the WinLoad software. If communication is interrupted before completing transmission or if after two attempts communication is not established, the system will wait until the Event Buffer attains another 90% capacity before attempting to re-communicate with the monitoring station. When the Event Buffer is full, each subsequent new event will erase the oldest event in the buffer.

12.8 Call Back WinLoad

Section [900]: Dialer Options
Option [1] OFF = Call Back WinLoad Disabled (default)
Option [1] ON = Call Back WinLoad Enabled

For additional security, when a PC using the WinLoad software attempts to communicate with the control panel, the control panel can hang up and call the PC back in order to re-verify identification codes and re-establish communication. When the control panel hangs up, the WinLoad software automatically goes into Wait for Call mode, ready to answer when the control panel calls back. Please note that the PC Telephone Number must be programmed in section [915] in order to use the Call Back feature.

12.9 Connecting Magellan to Winload
13.1 Alarm Display
If an alarm has occurred on a zone, the respective zone LED will flash, the [MEM] key will light up, and the zones will be stored in memory. These respective LEDs will continue to flash until disarming even if the zones are restored. To exit this mode and switch to live display mode before disarming, press the [CLEAR] key. Once the system is disarmed, the zones’ LEDs will turn off, while the [MEM] key remains lit. Press the [MEM] key to illuminate the LEDs corresponding to the zones that were in alarm. The alarm memory will be erased when the next alarm occurs and after a valid code is entered.

13.2 Trouble Display
Press the [TBL] key to view the Trouble Display. Please note that the keypad can be programmed to emit a beep every 5 seconds whenever a new trouble condition has occurred. Press the [TBL] key to stop the beeping.
To view the sub-menu, press the corresponding key in the main menu.

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Limitations of Alarm Systems

It must be understood that while your Paradox alarm system is highly advanced and secure, it does not offer any guaranteed protection against burglary, fire or other emergency (fire and emergency options are only available on certain Paradox models). This is due to a number of reasons, including by not limited to inadequate or improper installation/positioning, sensor limitations, battery performance, wireless signal interruption, inadequate maintenance or the potential for the system or telephone lines to be compromised or circumvented. As a result, Paradox does not represent that the alarm system will prevent personal injury or property damage, or in all cases provide adequate warning or protection.

Your security system should therefore be considered as one of many tools available to reduce risk and/or damage of burglary, fire or other emergencies, such other tools include but are not limited to insurance coverage, fire prevention and extinguish devices, and sprinkler systems.

We also strongly recommend that you regularly maintain your security systems and stay aware of new and improved Paradox products and developments.

Warning for Connections to Non-Traditional Telephony (e.g. VoIP)

Paradox alarm equipment was designed to work effectively around traditional telephone systems. For those customers who are using a Paradox alarm panel connected to a non-traditional telephone system, such as “Voice Over Internet Protocol” (VoIP) that converts the voice signal from your telephone to a digital signal traveling over the Internet, you should be aware that your alarm system may not function as effectively as with traditional telephone systems.

For example, if your VoIP equipment has no battery back-up, during a power failure your system’s ability to transmit signals to the central station may be compromised. Or, if your VoIP connection becomes disabled, your telephone line monitoring feature may also be compromised. Other concerns would include, without limitation, internet connection failures which may be more frequent than regular telephone line outages.

We therefore strongly recommend that you discuss these and other limitations involved with operating an alarm system on a VoIP or other non-traditional telephone system with your installation company. They should be able to offer or recommend measures to reduce the risks involved and give you a better understanding.

TBR-21

In order to comply with TBR-21, standard force dialing must be enabled.

UL AND ULC WARNINGS

UL AND C-UL INSTALLATION NOTES

This equipment is UL listed in accordance with standard UL1023 (Household Burglar -- Alarm Systems Units), standard UL985 (Household Fire Warning Units) and standard UL1635 (Digital Alarm Communicator System Units). This equipment has the capability of being programmed with features not verified for use in UL installations. To stay within these standards, the installer should use the following guidelines when configuring the system:

- All components of the system should be UL listed for the intended application.
- If the system will be used for “Fire” detection, the installer should refer to NFPA Standards #72, Chapter 2. In addition, once installation is complete, the local fire authority must be notified of the installation.
- This equipment must be verified by a qualified technician once every three years.
- All keypads must use an anti-tamper switch.
- Maximum allowed entry delay is 45 seconds.
- Maximum allowed exit delay is 60 seconds.
- Minimum 4 minutes for bell cut-off time.
- The following features do not comply with UL requirements: Bypass Recall and Auto Trouble Shutdown.
- Do not connect the primary indicating device to a relay. The installer must use the bell output.
- To comply with UL985, the auxiliary power output should not exceed 200mA.
- Do not connect the zone ground terminal with UL Listed products.
- The metallic enclosure must be grounded to the cold water pipe.
- All outputs are Class 2 or power-limited, except for the battery terminal. The Class 2 and power-limited fire alarm circuits shall be installed using CL3, CL3R, CL3P, or substitute cable permitted by the National Electrical Code, ANSI/NFPA 70.

RECOMMENDED:

- EOL resistor part #001102000
- For UL Installations: Universal UB1640W 16.5VAC min 40VA
- All outputs are rated from 11.3Vdc to 12.7Vdc
- 12Vdc 4Ah rechargeable acid/lead or gel cell backup battery (YUASA model NPV-12 recommended) for residential use. Use a 7Ah battery to comply with fire requirements.
- Wheelock 46T-12 siren

Legal

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For technical support in Canada or the U.S., call 1-800-791-1919, Monday to Friday from 8:00 a.m. to 8:00 p.m. EST. For technical support outside Canada and the U.S., call 00-1-450-491-7444, Monday to Friday from 8:00 a.m. to 8:00 p.m. EST. Please feel free to visit our website at www.paradox.com.