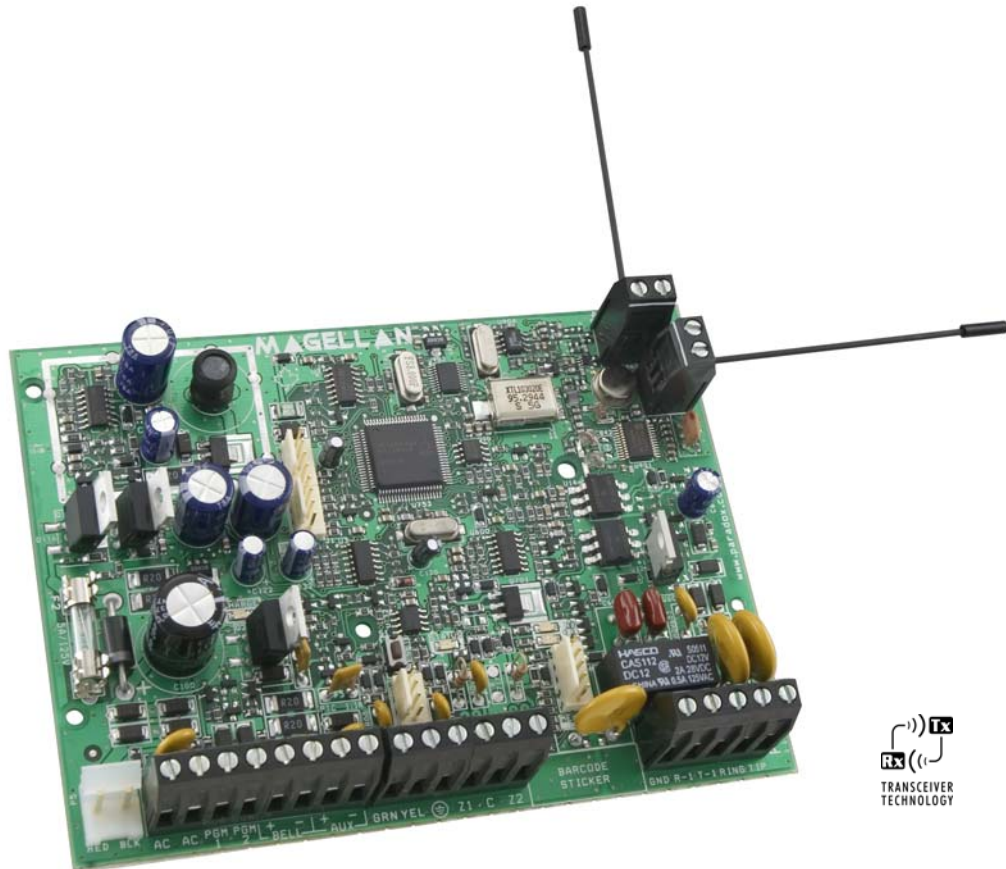




32-Zone Wireless Transceiver Control Panel

MG5000 V1.4



Reference & Installation Manual

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.



Table of Contents

Introduction	1	Restrict Arming on Tamper Failure	27
Features	1	Restrict Arming on Wireless Supervision Trouble	28
Specifications	1	Timed Auto-Arming	28
Installation	2	No Movement Auto-Arming	28
Location and Mounting	2	Auto-Arming Options	29
Earth Ground	2	One-Touch Arming	29
AC Power	2	One-Touch Bypass Programming	29
Backup Battery	2	Exit Delay	29
Auxiliary Power Terminals	5	Bell Squawk On Arm/Disarm with Keypad	29
Telephone Line Connection	5	Bell Squawk On Arm/Disarm with Remote Control	29
Bell Output Connection	5	No Exit Delay When Arming with Remote Control	30
Programmable Output Connections	5	No Exit Delay Beeps and No Bell Squawk When Stay/Sleep Arming	30
Single Zone Inputs	6	Exit Delay Termination	30
Advanced Technology Zone (ATZ) Connections	7	Fast Exit	30
Fire Circuits	8	Alarm Options	31
Programming Methods	9	Bell Cut-Off Timer	31
WinLoad Software for Windows	9	Recycle Alarm	31
Programming Using a Keypad	9	Tamper Recognition	31
Configuring the Keypad Zone Number	10	RF and Keypad/Bus Module Supervision	31
Programming Using A Paradox Memory Key*	10	Tamper Bypass Options	32
Access Codes	11	Tamper Supervision on the Bus Module	32
Access Code Length	11	Keypad Panic Options	32
Installer Code (Default: 0000 / 000000)	11	Panic Lockout Timer	32
Maintenance Code (Default: 1111 / 111111)	12	Stay/Sleep Arm Alarm Delay	32
System Master Code (Default: 1234 / 123456)	12	Reporting and Dialer settings	33
User Code Options	12	Zone Reporting Codes	33
Lock Master Code	13	User Reporting Codes	33
Zone Programming	14	Special Arming Report Codes	33
Zone Definitions	14	Special Disarming Report Codes	33
Zone Definition Status	17	Special Alarm Report Codes	33
Zone Partition Assignment	18	System Trouble Report Codes	34
Zone Options	18	System Trouble Restore Report Codes	34
EOL Zones	19	System Special Report Codes	34
ATZ Zone Doubling	19	Monitoring Station Telephone Numbers	35
ATZ Wiring Options	19	Personal Dialing Numbers	35
Zone Input 1 Becomes a 2-wire Smoke Input	19	Reporting Formats	35
Zone Timers	20	Dialing Method	36
Wireless Features	20	Pulse Ratio	37
Wireless Transmitter Programming	20	Maximum Dialing Attempts	37
Viewing the Wireless Transmitter Signal Strength	20	Delay Between Dialing Attempts	37
Supervision Options	21	Switch to Pulse on 5th Attempt	37
RF Jamming Supervision	21	Alternate Dial Option	37
Wireless Serial Number Display	21	Force Dial Option	37
Remote Control Programming	21	Recent Closing Delay	37
Wireless Keypad Assignment	22	Auto Test Report	37
Viewing the Wireless Keypad Signal Strength	22	Closing Delinquency Delay	38
Wireless Keypad Options	23	Power Failure Report Delay	38
Wireless Keypad Live Display Mode	23	Report System Disarming	38
Wireless Repeater Programming	23	Zone Restore Report Options	38
Wireless Repeater Options	23	Telephone Line Monitoring (TLM)	38
Arming and Disarming Options	27	Pager Reporting Delay	39
Switch to Stay Arming if no Entry Delay is opened	27	Pager Reporting Message Repetition	39
When Delay Zone is bypassed Follow Zones become Entry Delay	27	Personal Reporting Delay	39
Regular Arming switches to Force Arming	27	Personal Reporting Message Repetition	39
Stay Arming switches to Stay Force Arming	27	Programmable Outputs	40
Sleep Arming switches to Sleep Force Arming	27	PGM Activation Event	40
Restrict Arming on Battery Failure	27	PGM Deactivation Event	40
		PGM Delay	40
		PGM Options	40
		PGM Programming	41
		Viewing the PGM Signal Strength	41

System Settings..... 42
Version Number Display 42
Push Button Power Reset..... 42
Installer Lock..... 42
Keypad Lockout Feature..... 42
Battery Charge Current..... 42
Partitioning 42
Confidential Mode..... 43
Installer Function Keys 43
Daylight Savings Time 43
Audible Trouble Warning Except AC Failure 43
Audible Trouble Warning on AC Failure 43

Settings for WinLoad Software 44
Panel Answer Options 44
Panel Identifier..... 44
PC Password..... 44
PC Telephone Number 44
Call WinLoad Software 44
Answer WinLoad Software 45
Automatic Event Buffer Transmission..... 45
Call Back WinLoad 45
Connecting Magellan to Winload..... 45

User Operation..... 46
Alarm Display..... 46
Trouble Display..... 46

Index 47

Part 1: Introduction

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

Part 2: Installation

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

Transformer:	Amseco XP-1620 16VAC 20VA (not verified by UL)	UL: Universal UB1640W 16.5VAC 40VA
Magellan DC Power Supply rated at:	1.1A	1.5A
Auxiliary Supply can provide a maximum of:	typ: 600mA, max: 700mA	typ: 600mA, max: 700mA Do not exceed 200mA for UL installations
Acceptable Battery Charge Currents	350mA	350mA/700mA

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.

Figure 1: AC Power and Backup Battery Connections

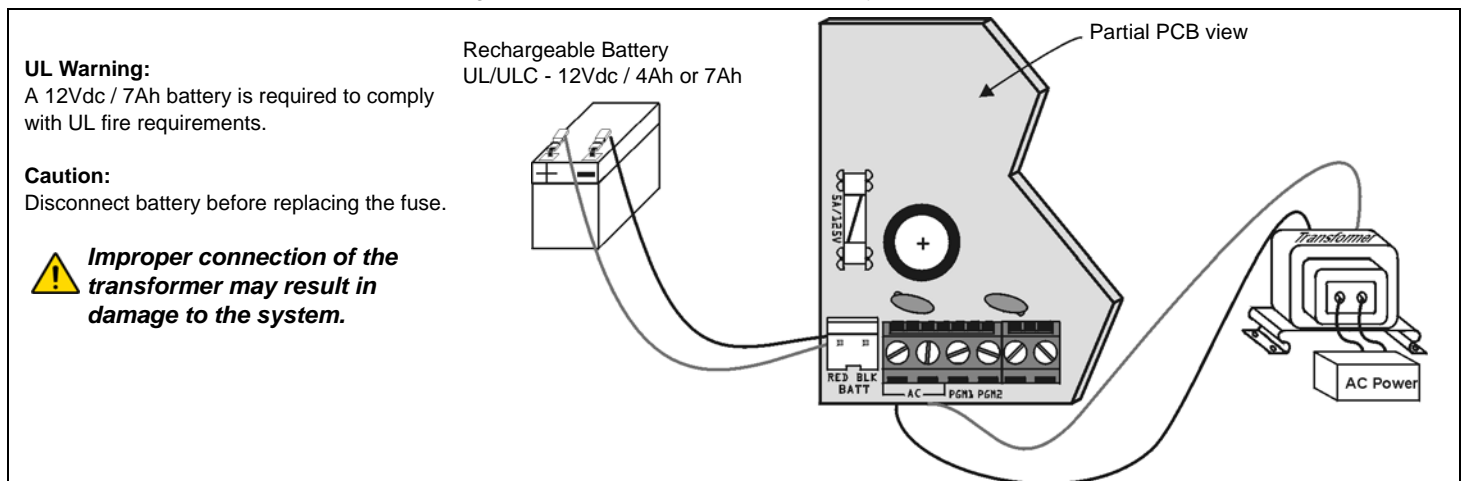


Figure 2: Magellan MG5000 Control Panel Overview

"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 6 seconds after power up = Installer lock enabled

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

"RX" & "TX" LED:

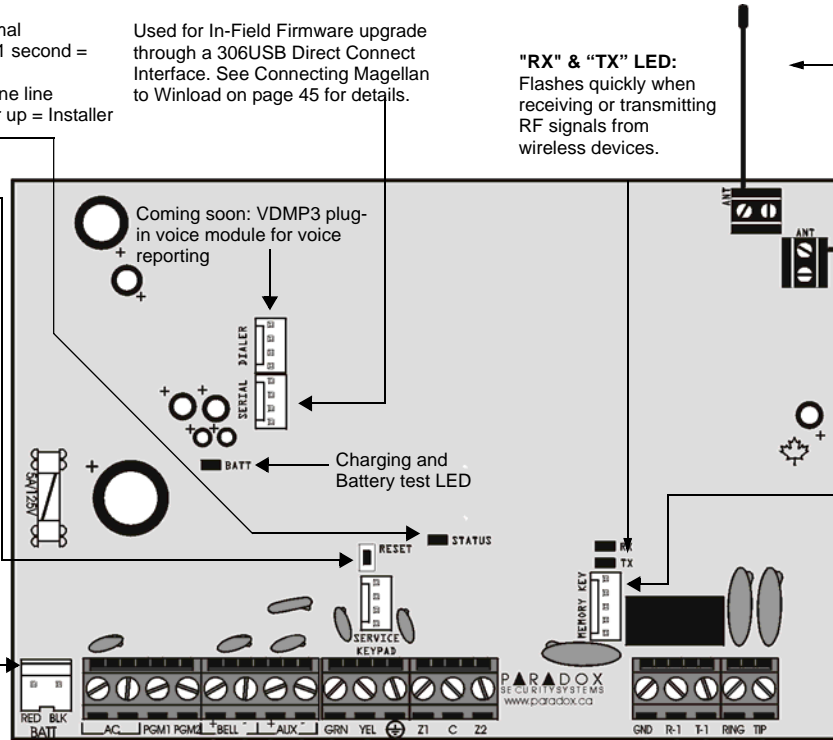
Flashes quickly when receiving or transmitting RF signals from wireless devices.

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.



Refer to AC Power on page 2.



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

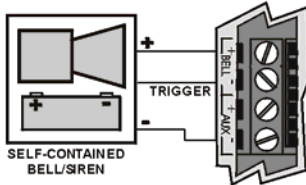
Warning:
Do not cut, bend or alter the antennas and ensure that electrical wires do not cross over the antennae, as this may affect signal reception.

Warning:
Disconnect telephone line before servicing.

Connection for Self-Contained Bell/Siren



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



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)

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.



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.

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.

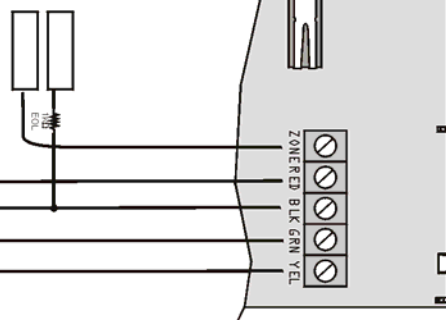
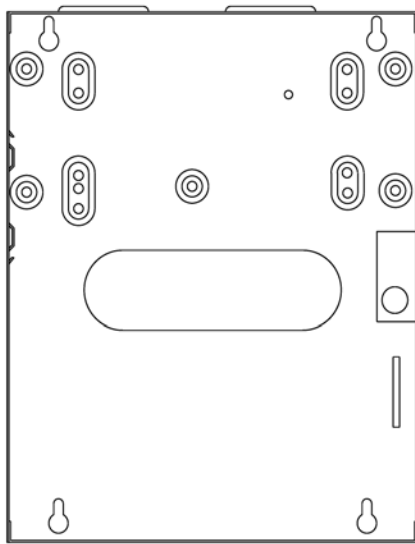
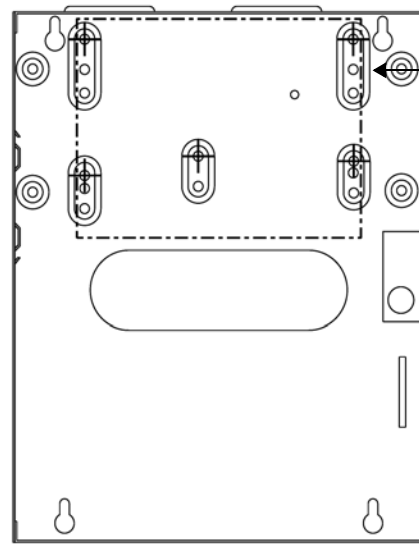


Figure 3: Metal Box Installation

8x10" Metal Box Installation



Old Metal Box



New MG5000 Compatible Metal Box



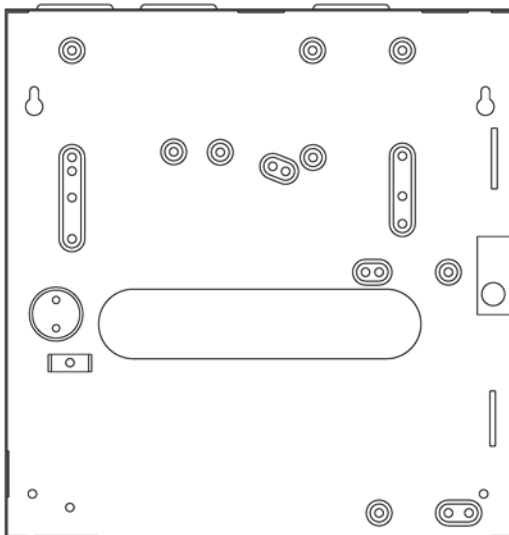
For UL recommended installation, place the PCB one notch lower than the new mounting location. This applies to both types of metal boxes.



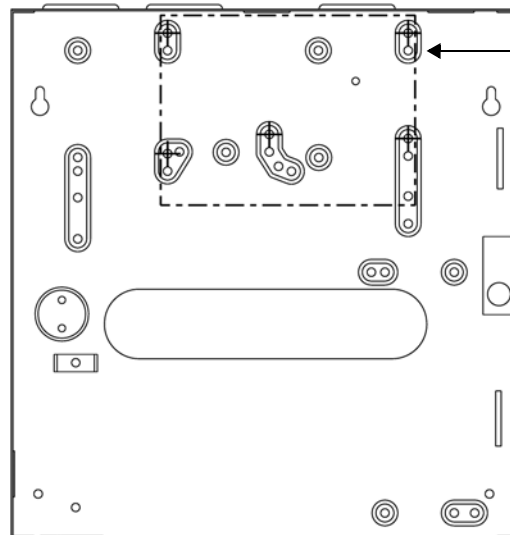
= New mounting location

■ ■ ■ ■ ■ = PCB position

11x11" Metal Box Installation



Old Metal Box



New MG5000 Compatible Metal Box



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 1K Ω 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

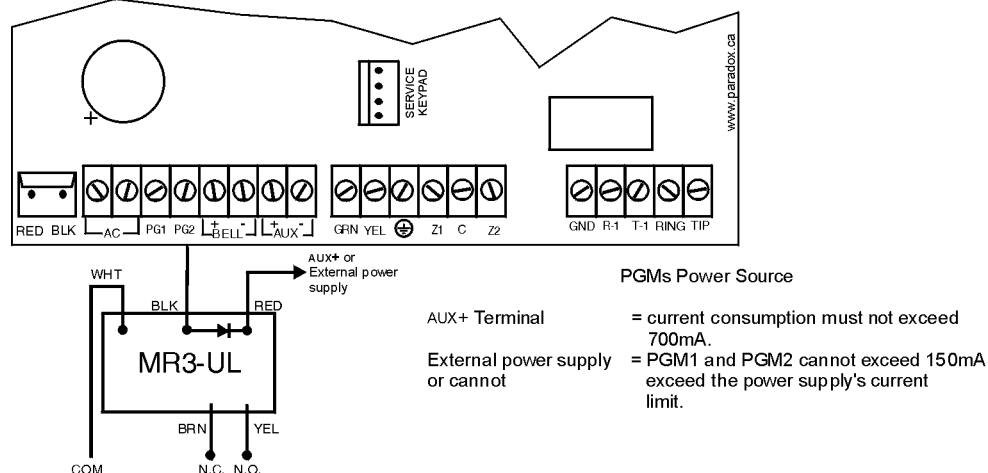
The Magellan MG5000 control panel includes two on-board programmable outputs (PGMs). For details on how to program PGMs, see *Programmable Outputs* on page 40. PGM1 and PGM2 can support up to 150mA. The PGMs are limited by the power source being used. If powered by:

- **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, then the current consumption will not exceed the power supply's current limit.



UL Note: The AUX terminals cannot exceed 200mA for UL installations.

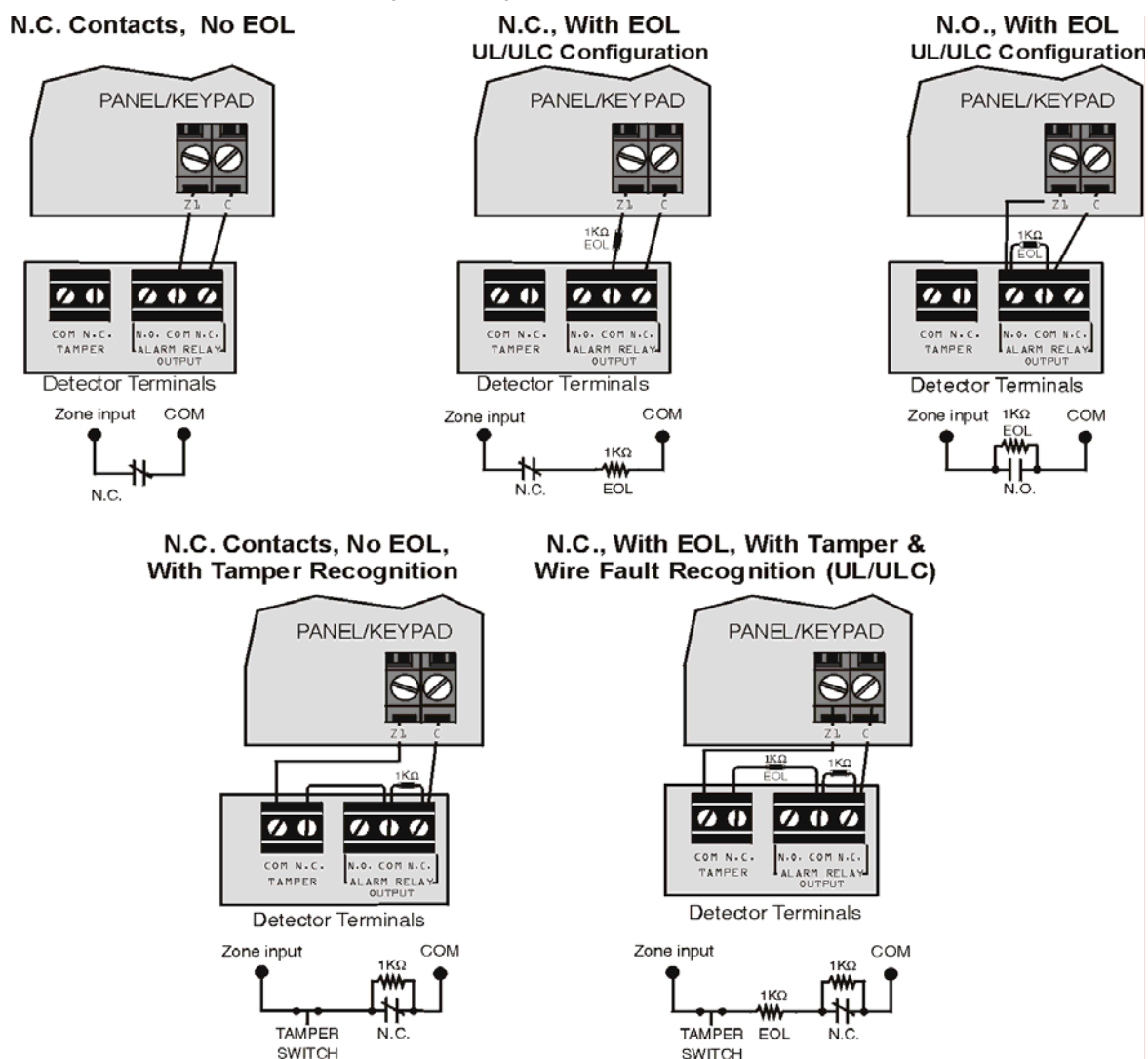
Figure 4: Relay and PGM Connections



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.

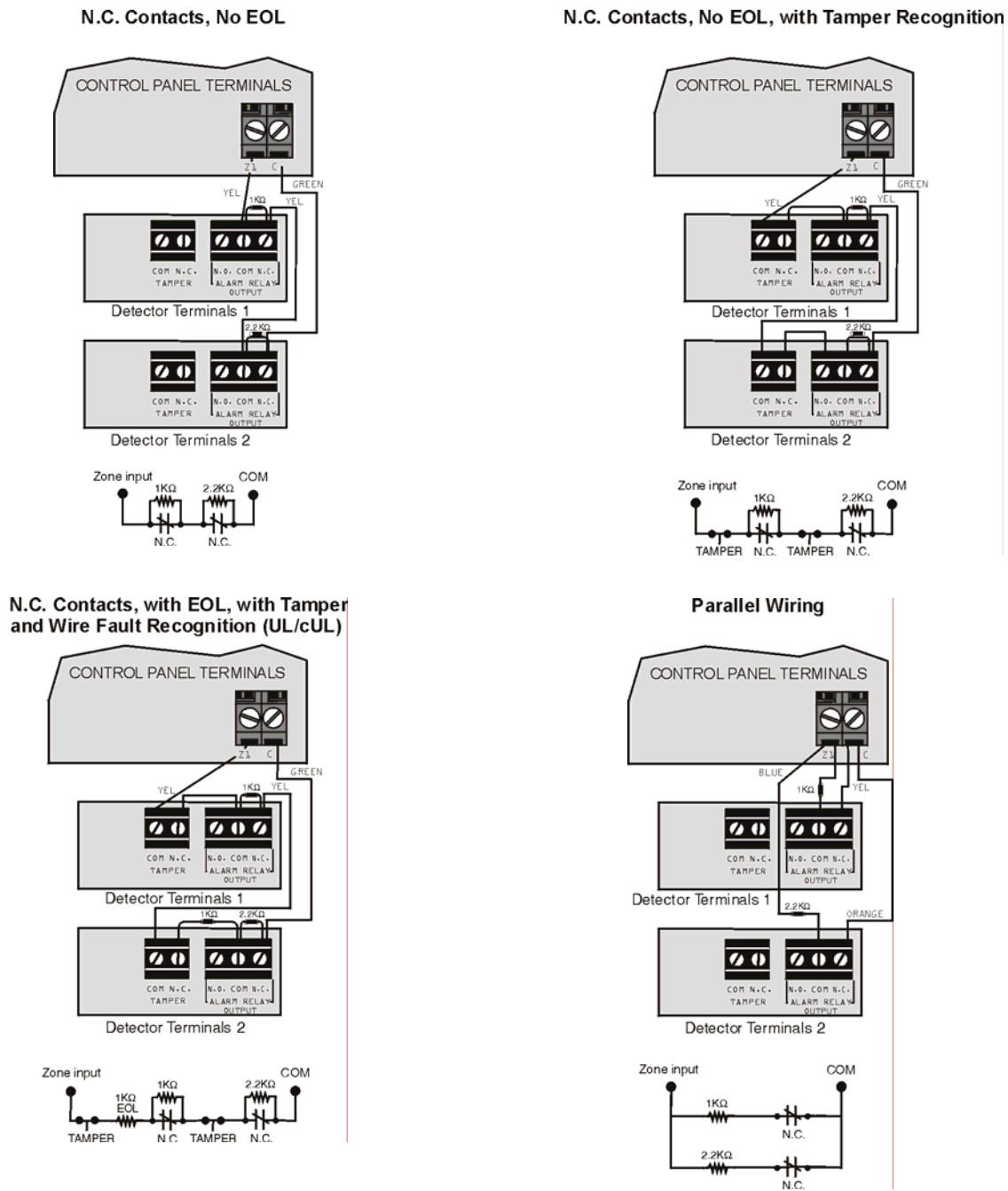
Figure 5: Single Zone Input Connections



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.

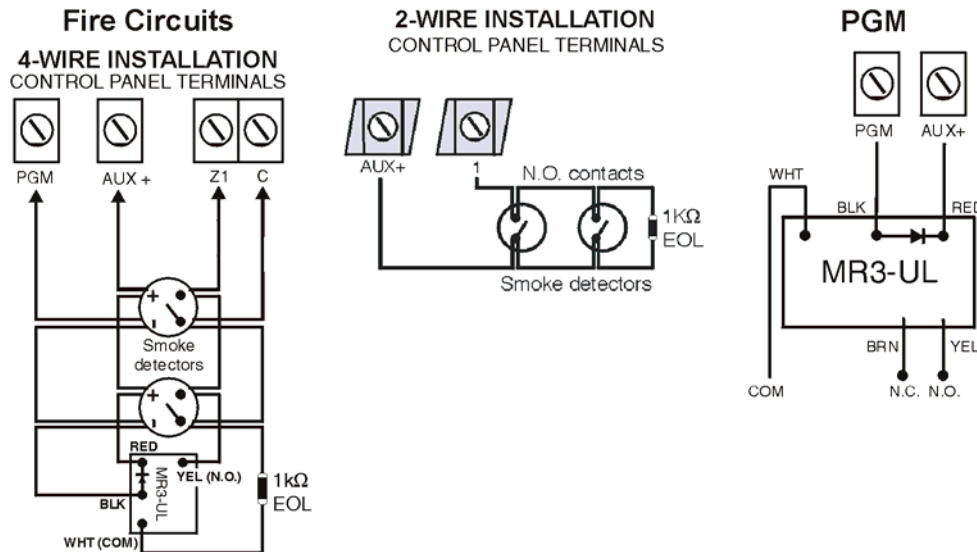
Figure 6: Advanced Technology Zone Connections



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 2: Decimal and Hexadecimal Programming Table

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

3.2.2 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 **[*]** 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



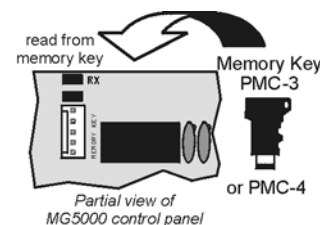
PLEASE NOTE: After five minutes, the keypad exits programming mode.

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.

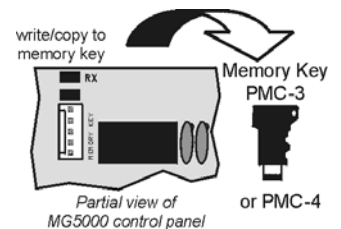
Download to DESTINATION Control Panel

- 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.



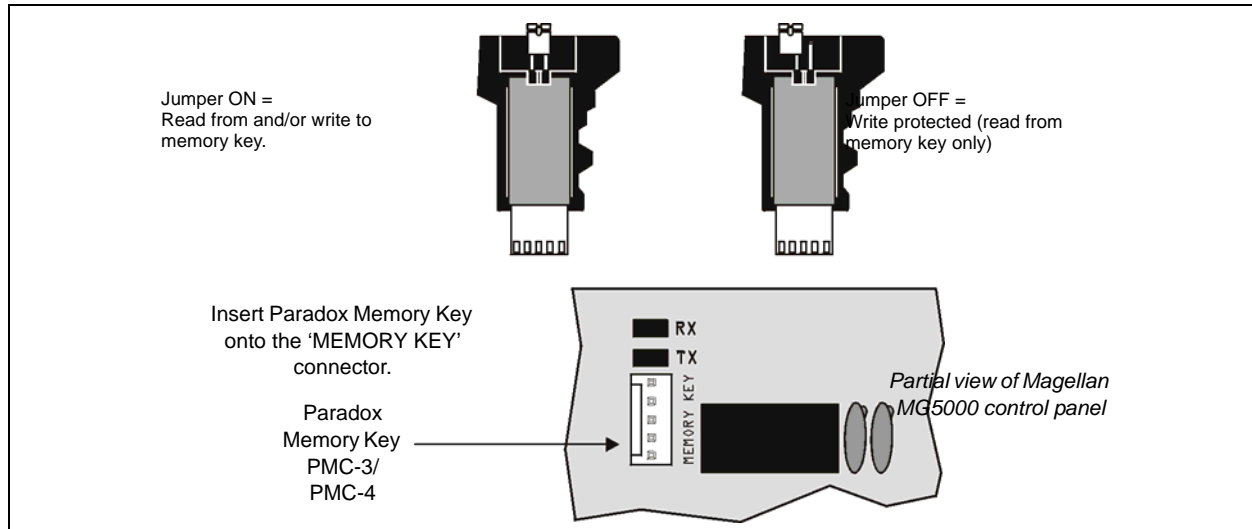
Copy to Memory Key from SOURCE Control Panel

- 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

Figure 8: Paradox Memory Key



Part 4: Access Codes

The Magellan MG5000 control panel supports the following access codes:

Installer Code [397]:	Used to program all control panel settings except user access codes.
Maintenance Code [398]:	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.
System Master Code [399]:	Provides full access. Arm and disarm using any method described in the <i>User Code Options</i> below as well as program the user access codes.
Master Code 1:	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.
Master Code 2:	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.
29 User Codes:	Can arm and disarm as per User Code Options on page 12.

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

Option [4] ON = Stay/Sleep Arming Enabled for selected User Code (default)

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

Option [5] ON = Force Arming Enabled for selected User Code (default)

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)

Option **[6]** ON = Arm Only Enabled for selected User Code

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

	Wireless	Keypad	Hardwire
Zone 1	Yes	Yes	Yes (Input Z1)
Zone 2	Yes	Yes	Yes (Input Z2)
Zone 3	Yes	Yes	Yes (Input Z1 with ATZ)
Zone 4	Yes	Yes	Yes (Input Z2 with ATZ)
Zone 5 to 32	Yes	Yes	No


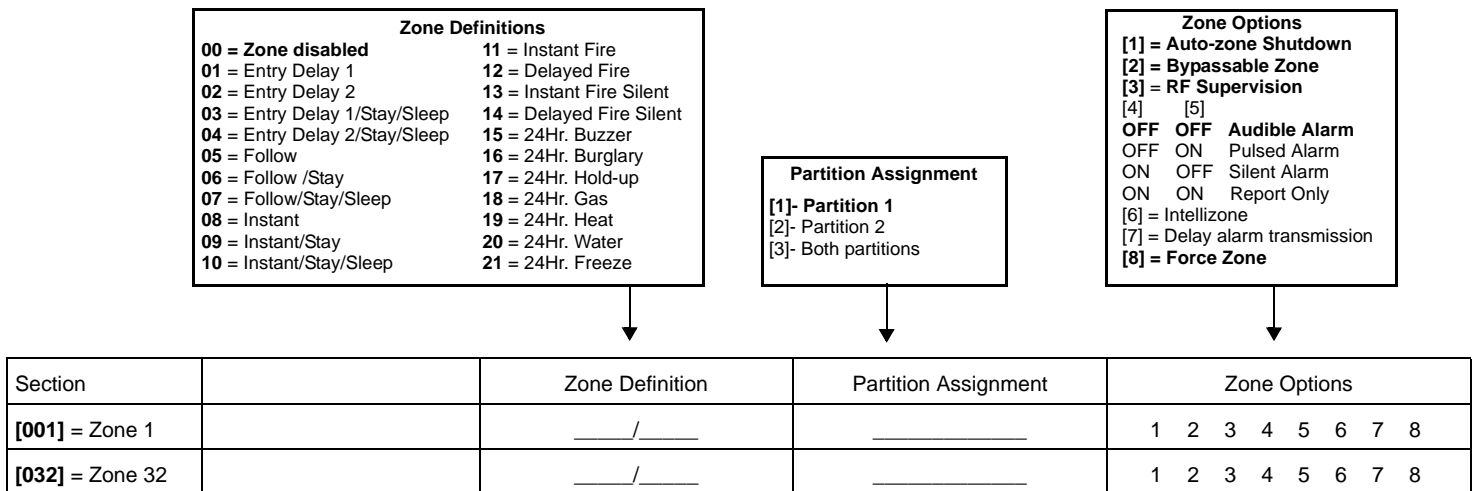
 If a zone is already programmed and you assign a device to the same zone, a wireless zone will overwrite a keypad/hardwire zone, and a keypad zone will overwrite a hardwire zone.

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

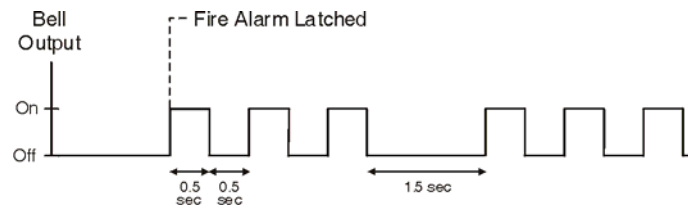
All zones defined as Instant/Stay/Sleep zones become Instant zones when the system is Regular armed. All zones defined as Instant/Stay/Sleep zones become bypassed when the system is Stay or Sleep armed. See Table 4 on page 17 for any exceptions.

5.1.11 Instant Fire Zones

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

when a 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

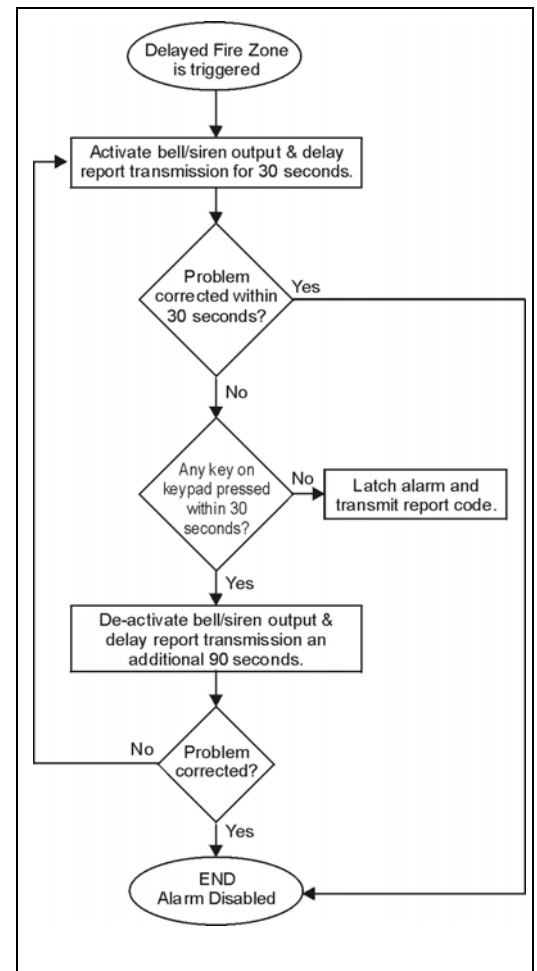


5.1.12 Delayed Fire Zones

Sections **[001]** to **[032]**: Zones 1 to 32, First Digits = **1 2**

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



5.1.13 Instant Fire Silent Zones

Sections **[001]** to **[032]**: Zones 1 to 32, First Digits = **1 3**

When a 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 = **1 4**

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 = **1 5**

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 = **1 6**

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 4: Zone Definition Status

		Stay/Sleep Alarm Delay Disabled - Section [720] is 0			Stay/Sleep Alarm Delay Enabled - Section [720] is not 0		
Zone Definition	Description	Stay Arm	Sleep Arm	Fully Arm	Stay Arm	Sleep Arm	Fully Arm
03	Entry Delay1/Stay/Sleep	Not Armed	Not Armed	Entry Delay 1	Not Armed	Not Armed	Entry Delay 1
04	Entry Delay2/Stay/Sleep	Not Armed	Not Armed	Entry Delay 2	Not Armed	Not Armed	Entry Delay 2
05	Follow (Entry Delay/Instant)	As is	As is	As is	Follow (Entry Delay/ SleepDelay)	Follow (Entry Delay/SleepDelay)	Follow (Entry Delay/Instant)
06	Follow/Stay	Not Armed	Follow (Entry Delay/Instant)	Follow (Entry Delay/Instant)	Not Armed	Follow (Entry Delay/SleepDelay)	Follow (Entry Delay/Instant)
07	Follow/Stay/Sleep	Not Armed	Not Armed	Follow (Entry Delay/Instant)	Not Armed	Not Armed	Follow (Entry Delay/Instant)
08	Instant	As is	As is	As is	Sleep Delay	Sleep Delay	Instant
09	Instant/Stay	Not Armed	Instant	Instant	Not Armed	Sleep Delay	Instant
10	Instant/Stay/Sleep	Not Armed	Not Armed	Instant	Not Armed	Not Armed	Instant

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 if 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

[4] OFF / **[5]** OFF: *Audible Steady* (default)

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.

[4] OFF / **[5]** ON: *Audible Pulsed Alarm*

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.

[4] ON / **[5]** OFF: *Silent Alarm*

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.

[4] ON / **[5]** ON: *Report Only*

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 1K Ω 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.

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)
----------------------------------	---------------------------------	-----------------------------------	--

6.3 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).

How Do I Delete a Remote Control?

- 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) Press the [0] button six times to delete the serial number.

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.

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 [610] to [642]).
- 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.



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

Table 5: Button Options

[0] = Button Disabled*	[8] = Generate a Panic 1 Alarm
[1] = Regular/Regular Force arming	[9] = Generate a Panic 2 Alarm
[2] = Stay/Stay Force arming	[0] or [0(10)] = Generate a Panic 3 Alarm
[3] = N/A	[OFF] = Activates any PGMs that have Event Group #08 as their Activation Event
[4] = Sleep/Sleep Force arming	[BYP] = Activates any PGMs that have Event Group #09 as their Activation Event
[5] = N/A	[MEM] = Activates any PGMs that have Event Group #10 as their Activation Event
[6] = N/A	[TBL] = Activates any PGMs that have Event Group #11 as their Activation Event
[7] = N/A	[⏏] = Paramedic alarm

* 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 [⏏] 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].

Go to section(s) [570] = Keypad 1, [571] = Keypad 2, [572] = Keypad 3, or [573] = Keypad 4.

Press and hold the [⏏] 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 [1] key. Zones that are open but have not triggered an alarm will only be displayed after pressing the [1] key. The display will appear for 30 seconds, showing the status of all zones at the time the [1] 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] OFF = Repeat Wireless Keypad 2 Signals (default)
- 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

- Option **[4]** OFF = Repeat Wireless Zone 20 Signals (default)
- Option **[4]** ON = Repeat Wireless Zone 20 Signals
- Option **[5]** OFF = Repeat Wireless Zone 21 Signals (default)
- Option **[5]** ON = Repeat Wireless Zone 13 Signals
- Option **[6]** OFF = Repeat Wireless Zone 22 Signals (default)
- Option **[6]** ON = Repeat Wireless Zone 22 Signals
- Option **[7]** OFF = Repeat Wireless Zone 23 Signals (default)
- Option **[7]** ON = Repeat Wireless Zone 23 Signals
- Option **[8]** OFF = Repeat Wireless Zone 24 Signals (default)
- Option **[8]** ON = Repeat Wireless Zone 24 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 **[555]** (Repeater 1) and Section **[565]** (Repeater 2): Wireless Repeater Options

- Option **[1]** OFF = Repeat Wireless Zone 25 Signals (default)
- Option **[1]** ON = Repeat Wireless Zone 25 Signals
- Option **[2]** OFF = Repeat Wireless Zone 26 Signals (default)
- Option **[2]** ON = Repeat Wireless Zone 26 Signals
- Option **[3]** OFF = Repeat Wireless Zone 27 Signals (default)
- Option **[3]** ON = Repeat Wireless Zone 27 Signals
- Option **[4]** OFF = Repeat Wireless Zone 28 Signals (default)
- Option **[4]** ON = Repeat Wireless Zone 28 Signals
- Option **[5]** OFF = Repeat Wireless Zone 29 Signals (default)
- Option **[5]** ON = Repeat Wireless Zone 29 Signals
- Option **[6]** OFF = Repeat Wireless Zone 30 Signals (default)
- Option **[6]** ON = Repeat Wireless Zone 30 Signals
- Option **[7]** OFF = Repeat Wireless Zone 31 Signals (default)
- Option **[7]** ON = Repeat Wireless Zone 31 Signals
- Option **[8]** OFF = Repeat Wireless Zone 32 Signals (default)
- Option **[8]** ON = Repeat Wireless Zone 32 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 **[556]** (Repeater 1) and Section **[566]** (Repeater 2): Wireless Repeater Options

- Option **[1]** OFF = Repeat Wireless 2-Way PGM 1 Signals (default)
- Option **[1]** ON = Repeat Wireless 2-Way PGM 1 Signals
- Option **[2]** OFF = Repeat Wireless 2-Way PGM 2 Signals (default)
- Option **[2]** ON = Repeat Wireless 2-Way PGM 2 Signals
- Option **[3]** OFF = Repeat Wireless 2-Way PGM 3 Signals (default)
- Option **[3]** ON = Repeat Wireless 2-Way PGM 3 Signals
- Option **[4]** OFF = Repeat Wireless 2-Way PGM 4 Signals (default)
- Option **[4]** ON = Repeat Wireless 2-Way PGM 4 Signals
- Option **[5]** OFF = Repeat Wireless 2-Way PGM 5 Signals (default)
- Option **[5]** ON = Repeat Wireless 2-Way PGM 5 Signals
- Option **[6]** OFF = Repeat Wireless 2-Way PGM 6 Signals (default)
- Option **[6]** ON = Repeat Wireless 2-Way PGM 6 Signals
- Option **[7]** OFF = Repeat Wireless 2-Way PGM 7 Signals (default)
- Option **[7]** ON = Repeat Wireless 2-Way PGM 7 Signals
- Option **[8]** OFF = Repeat Wireless 2-Way PGM 8 Signals (default)
- Option **[8]** ON = Repeat Wireless 2-Way PGM 8 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.

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]** OFF = Repeat Wireless 2-Way PGM 10 Signals (default)

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

Option **[3]** OFF = Repeat Wireless 2-Way PGM 11 Signals (default)

Option **[3]** ON = Repeat Wireless 2-Way PGM 11 Signals

Option **[4]** OFF = Repeat Wireless 2-Way PGM 12 Signals (default)

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

Option **[5]** OFF = Repeat Wireless 2-Way PGM 13 Signals (default)

Option **[5]** ON = Repeat Wireless 2-Way PGM 13 Signals

Option **[6]** OFF = Repeat Wireless 2-Way PGM 14 Signals (default)

Option **[6]** ON = Repeat Wireless 2-Way PGM 14 Signals

Option **[7]** OFF = Repeat Wireless 2-Way PGM 15 Signals (default)

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.

Part 7: Arming and Disarming Options

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]**.

7.9.1 Auto-Arm Timer

Section **[761]** = Partition 1, **[762]** = Partition 2

Select the section corresponding to the desired partition and program the time (use the 24-hour clock i.e. 6:30PM = 18:30) that you wish the control panel to attempt to arm the selected partition and/or send the Late to Close report code.

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

[3]	[4]	
OFF	OFF	Regular
OFF	ON	Sleep
ON	OFF	Stay

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]

Option [1] ON = Press & hold the [ARM] key for One-touch Regular Arming.

Option [2] ON = Press & hold the [STAY] key for One-touch Stay Arming.

Option [3] ON = Press & hold the [SLEEP] key for One-touch Sleep Arming.

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]

Option [4] ON = Press & hold the [BYP] key for One-touch Bypass Programming.

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

[3]	[4]	Zones/RF Module Tamper Recognition Options	Keypad / Bus Module Tamper Recognition Options*
OFF	OFF	Disabled	TROUBLE ONLY
OFF	ON	TROUBLE ONLY	TROUBLE ONLY
ON	OFF	When disarmed: TROUBLE ONLY When armed: Follow zone's alarm type	TROUBLE ONLY
ON	ON	When disarmed: AUDIBLE ALARM When armed: Follow zone's alarm type	AUDIBLE ALARM
* 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

[6]	[7]	RF Supervision Options	Keypad / Bus Module Supervision Options
OFF	OFF	Disabled	Disabled
OFF	ON	TROUBLE ONLY	TROUBLE ONLY
ON	OFF	When disarmed: TROUBLE ONLY When armed: Follow zone's alarm type	TROUBLE ONLY
ON	ON	When disarmed: AUDIBLE ALARM When armed: Follow zone's alarm type	AUDIBLE ALARM

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 = Tamperers 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 tamperers 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]

- N/A
- **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]

- **Fail To Communicate:** The control panel has failed all attempts to communicate with the monitoring station. The report code will be transmitted upon the next successful attempt.
- **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 6: Special Keys for Telephone Numbers

Press	Action or Value
[OFF]	*
[BYP]	#
[MEM]	switch from pulse to tone dialing or vice versa
[TBL]	4-second pause
[SLEEP]	deletes current digit
[]	inserts blank space

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 7: Reporting Formats

Value Entered	Reporting Format
0	Ademco Slow (1400Hz, 1900Hz, 10BPS)
1	Silent Knight Fast (1400Hz, 1900Hz, 10BPS)
2	SESCOA (2300Hz, 1800Hz, 20BPS)
3	Ademco Express (DTMF 4+2)
4	Ademco Contact ID
5	SIA



If Hexadecimals (0 to FF) are used to program the report codes, verify that the pager also supports Hexadecimals. If the pager does not support Hexadecimals, 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] OFF = Pulse Dialing (see *Pulse Ratio* on page 37).

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]** OFF = Force Dial Disabled

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] OFF = Report On Bell Cut-Off (default)

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

[1] OFF / [2] OFF: *TLM Disabled*

[1] OFF / [2] ON: *Trouble Only*

Upon line test failure, a TLM Trouble will appear in the keypad's trouble display (see *Trouble Display* on page 46).

[1] ON / [2] OFF: *Audible Alarm If System Armed*

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.

[1] ON / [2] ON: *Silent Alarm Becomes Audible*

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] OFF = PGM State Normally Open (N.O.) (default)

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)
----------------------------------	---------------------------------	-----------------------------------	--

Part 11: System Settings

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.

Part 12: Settings for WinLoad Software



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] OFF = Auto Event Buffer Transmission Disabled (default)

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

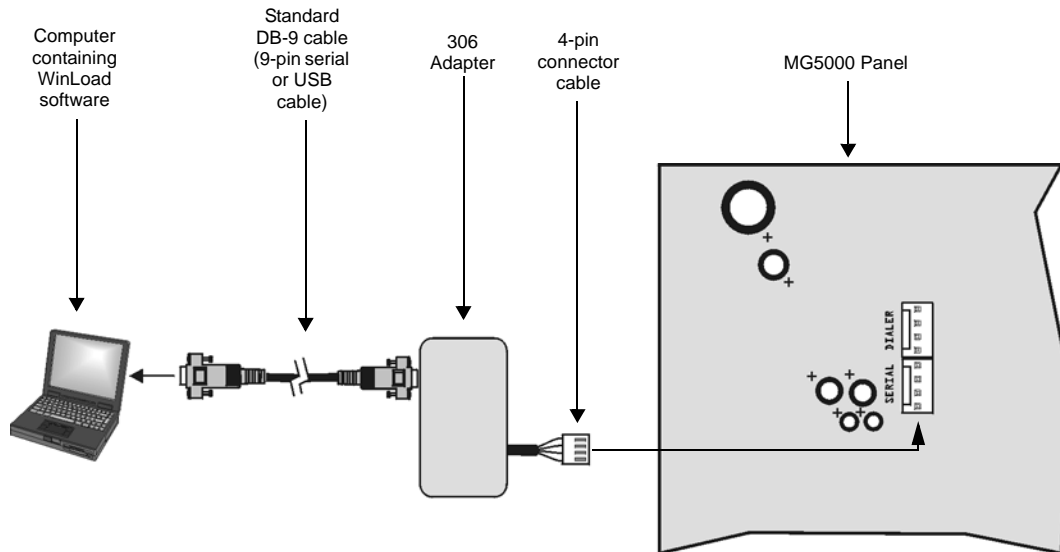
Section [900]: Dialer Options

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



Part 13: User Operation

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.

Main Menu Trouble	Sub-Menu Trouble Menu
[1] Wireless zone low battery	[1] to [32] Zones in low battery
[2] Power trouble	[1] Low/No battery on the control panel [2] AC failure on control panel [3] Auxiliary overload on control panel [4] Wireless keypad AC failure [5] Wireless keypad battery failure [6] Wireless repeater AC failure [7] Wireless repeater battery failure
[3] Bell trouble	[1] Bell disconnect on control panel [2] Bell overload on control panel
[4] Communication trouble	[1] Telephone Line Monitoring on control panel [2] Fail to communicate on Monitoring Telephone 1 on control panel [3] Fail to communicate on Monitoring Telephone 2 on control panel [4] Fail to communicate on pager telephone on control panel [5] Fail to communicate on voice telephone on control panel [6] Fail to communicate with PC on control panel
[5] Tamper and zone wiring failure	[1] to [32] Zones in tamper and zone wiring failure
[6] Module tamper trouble	[1] MG-2WPGM [2] Keypad bus [5] Wireless keypad
[7] Fire loop trouble	[1] to [32] Zones in fire loop trouble
[8] Timer loss	
[9] Wireless zone supervision loss	[1] to [32] Zones in supervision lost [STAY] RF interference trouble
[0 (10)] or [10] Module supervision loss	[1] MG-2WPGM [2] Keypad bus (Panel reset will not clear this trouble, clear it in section [955]) [5] Wireless keypad supervision failure [6] Wireless repeater supervision failure
[16] Keypad fault (MG32LED/MG32LRF only)	
[SLEEP] Keypad fault (MG10LEDV/H only)	

INDEX

Numerics		Bell Squawk On Arm/Disarm	
24 Hr. Burglary Zones	16	With Keypad	29
24 Hr. Buzzer	16	With Remote Control	29
24 Hr. Freeze Zones	17	Bypassable Zones	18
24 Hr. Gas Zones	17		
24 Hr. Heat Zones	17	C	
24 Hr. Hold-up Zones	17	Call Back Feature	45
24 Hr. Water Zones	17	Call WinLoad Software	44
		Cancel Auto-Arm Report Code	33
A		Charge Current	42
AC Failure Report Code	34	Closing Delinquency	38
AC Power	2	Cold Start Report Code	34
Access Codes	11	Configuring The LED Keypads	10
Length	11	Connecting	
Account	36	Bells or Sirens	5
Ademco Contact ID	36	Fire Zones	8
Ademco Express	36	PGMs	5
Advanced Technology Zone (ATZ) Connections	7	Single Zone Inputs	6
Alarm Display	46	Telephone Lines	5
Alarm Options	31	Counter, Auto Zone Shutdown	18
Alarm Report Code Transmission, Delay	19		
Alarm Types	18	D	
Alternate Dial Option	37	Data Display Mode	10
Answer WinLoad Software	45	Daylight Savings Time	43
Answering Machine Override	44	Delay	30, 32, 39
Arming and Disarming Options	27	Before Alarm Report Code Transmission	19
ATZ Wiring Options	19	Between Dialing Attempts	37
ATZ Zone Doubling	19	Power Failure Report	38
Audible Trouble Warning Except AC Failure	43	Delayed Fire Silent Zones	16
Audible Trouble Warning on AC Failure	43	Delayed Fire Zones	16
Auto Event Buffer Transmission	45	Dial	37
Auto Force Arming	27	Dialer settings	33
Auto Test Report	37	Dialing Attempts	37
Auto Zone Shutdown	18	Dialing Method	36
Counter	18	Duress	13
Report Code	33	Duress Report Code	33
Auto-Arming			
Options	29	E	
Timer	28	Emergency Panic Report Code	33
Timing	28	Entry Delay 1 / Stay / Sleep Zones	15
Auxiliary Panic Report Code	33	Entry Delay 2 / Stay / Sleep Zones	15
Auxiliary Power	5	EOL Zones	19
Auxiliary Supply Report Code	34	Event Buffer Transmission	45
		Exit Delay	29
B			
Backup Battery	2	F	
Battery Charge Current	42	Fail to Communicate Report Code	34
Battery Failure Report Code	34	Feature Select Programming Method	9
Battery, Backup	2	Features, Wireless	20
Beep On Exit Delay	29	Fire Circuits	8
Bell Cut-Off Timer	31	Fire Loop Trouble Report Code	34
Bell Output		Fire Panic Report Code	33
Connection	5	Follow / Stay / Sleep Zones	15
Disconnected Report Code	34	Follow / Stay Zones	15
Overload Report Code	34		

Follow Zones	15
Force Arming	12
Force Zones	19
 G	
Ground	2
 H	
Hardware Reset	42
 I	
Installation	2
Installer	
Code	11
Lock	42
Quick Functions Keys	43
Installer In Report Code	34
Installer Out Report Code	34
Instant / Stay / Sleep Zones	15
Instant / Stay Zones	15
Instant Fire Silent Zones	16
Instant Fire Zones	16
Instant Zones	15
Intellizone	19
 K	
Key. See Memory Card	
Keypad	
Lockout Report Code	33
Panic Options	32
 L	
Late to Close Report Code	33
Length of Access Codes	11
Location and Mounting	2
Lock Master Code	13
Lockout	32
 M	
Maintenance Code	12
Maximum Dialing Attempts	37
Memory Card	10
Message	39
Module Fault Report Code	34
Mounting	2
Multiple Feature Select Programming Method	9
 N	
No Arming	
On Battery Fail	27
On Tamper Trouble	27, 28
No Audible Feedback Upon Stay Arming	30
No Exit Delay When Arming with Remote Control	30
No Movement Auto-Arming	28
No Movement Report Code	33
Number of Rings	44

Numbers	36
 O	
One-Touch Arming	29
Report Code	33
Options	
Alarm	31
Arming and Disarming	27
Auto-Arming	29
User code	12
Zone	18
Override Answering Machine	44
 P	
Pager	39
Panel Answer Options	44
Panel Identifier	44
Panic	32
Panic Options	32, 40
Partial Arming Report Code	33
Partition Account Numbers	35
Partition Assignment, Zone	18
Partitioning	42
PC Password	44
PC Telephone Number	44
Personal	39
Personal Dialing Numbers	35
PGM	40
PGM (Control Panel)	
Activation Event	40
Deactivation Event	40
PGM Delay	40
PGM Activation, User Code Option	13
Power	2
Power Failure Report Delay	38
Programmable Output Connections	5
Programmable Outputs	40
Programming	
Methods	9
Using a Keypad	9
Wireless Features	20
Pulse	37
Pulse Ratio	37
 Q	
Quick Arming	29
 R	
Recent Close Delay	37
Recent Closing Report Code	33
Recycle Alarm	31
Regular Arming Switches to Force Arming	27
Remote Arming Report Code	33
Remote Controls	
Deleting	21
Programming	21
Programming Remote Control Buttons	22
Remote Disarm Report Code	33

Repetition	39
Report	38
Report Code, Special	
Cold Start	34
Installer In	34
Installer Out	34
Test Report	34
Report Code, Special Alarm	
Auto Zone Shutdown	33
Auxiliary Panic	33
Duress	33
Emergency Panic	33
Fire Panic	33
Keypad Lockout	33
Recent Closing	33
Report Code, Special Arming	
Late to Close	33
No Movement	33
One-Touch Arming	33
Partial Arming	33
Remote Arming	33
Timed Auto-Arming	33
Report Code, Special Disarming	
Cancel Auto-Arm	33
Remote Disarm	33
Report Code, System Trouble	
AC Failure	34
Auxiliary Supply	34
Battery Failure	34
Bell Output Disconnected	34
Bell Output Overload	34
Fail to Communicate	34
Fire Loop Trouble	34
Module Fault	34
Timer Loss	34
Wireless Low Battery	34
Reporting	39
Reporting and Dialer settings	33
Reporting Formats	35
Reset, Hardware	42
Restrict Arming	
On Battery Fail	27
On Tamper Trouble	27, 28
RF Jamming Supervision	21
RF Supervision	18
Rings	44

S

Silent	32
Single Digit Data Entry Method (Decimal and Hexadecimal)	
9	6
Single Zone Inputs	6
Sleep	32
Software, Upload/Download	9
Special Alarm Report Codes	33
Special Arming Report Codes	33
Special Disarming Report Codes	33
Special Reporting Codes	34
Standard Pulse Formats	35
Switch	37

Switch to Stay Arming	27
System	38
Master Code	12
Settings	42
Trouble Report Codes	34
Trouble Restore Codes	33, 34

T

Tamper Bypass Options	32
Tamper Recognition	31
Telephone Line Connection	5
Telephone Line Monitoring (TLM)	38
Telephone Number, PC	44
Telephone Numbers	35
Termination	30
Test Report	
Automatic	37
Report Code	34
Timed Auto-Arming	28
Report Code	33
Timer	32, 38
Timer Loss Report Code	34
TLM	38
Transformer Requirements	2
Trouble Display	46

U

Upload/Download Software	9
User Code Options	
Arm Only	13
Bypass Programming	12
Partition 1 Assignment	12
Partition 2 Assignment	12
PGM Activation	13
Stay Arming	12
User Operation	46

W

When Delay Zone is bypassed Follow Zones become Entry	
Delay 2	27
Winload Software	9
Wireless Features	20
Wireless Keypad Assignment	22
Wireless Keypad Live Display Mode	23
Wireless Keypad Options	23
Wireless Low Battery Report Code	34
Wireless Repeater Option	23
Wireless Repeater Programming	23
Wireless Serial Number Display	21
Wireless Transmitters	
Check-in Supervision Timer Settings	21
Programming	20, 41
Viewing Signal Strength	20, 22, 41

Z

Zone Definition Status	17
Zone Definitions	14
Zone Input 1 Becomes a 2-wire Smoke Input	19

Zone Options	
Delay Before Alarm Report Code Transmission	19
Force Zones	19
Zone Programming	14
Zone Restore Report Options	38
Zone Shutdown, Auto	18
Zone Timers	20

Warranty

Paradox Security Systems Ltd. ("Seller") warrants its products to be free from defects in materials and workmanship under normal use for a period of one year. Except as specifically stated herein, all express or implied warranties whatsoever, statutory or otherwise, including without limitation, any implied warranty of merchantability and fitness for a particular purpose, are expressly excluded. Because Seller does not install or connect the products and because the products may be used in conjunction with products not manufactured by Seller, Seller cannot guarantee the performance of the security system and shall not be responsible for circumstances resulting from the product's inability to operate. Seller obligation and liability under this warranty is expressly limited to repairing or replacing, at Seller's option, any product not meeting the specifications. Returns must include proof of purchase and be within the warranty period. In no event shall the Seller be liable to the buyer or any other person for any loss or damages whether direct or indirect or consequential or incidental, including without limitation, any damages for lost profits stolen goods, or claims by any other party, caused by defective goods or otherwise arising from the improper, incorrect or otherwise faulty installation or use of the merchandise sold.

Notwithstanding the preceding paragraph, the Seller's maximum liability will be strictly limited to the purchase price of the defective product. Your use of this product signifies your acceptance of this warranty.

BEWARE: Dealers, installers and/or others selling the product are not authorized to modify this warranty or make additional warranties that are binding on the Seller.

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 but 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 #2011002000
- **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 #NP7-12 recommended) for residential use. Use a 7Ah battery to comply with fire requirements.
- Wheelock 46T-12 siren

Legal

© 2004-2006 Paradox Security Systems Ltd. All rights reserved. Specifications may change without prior notice. One or more of the following US patents may apply: 6215399, 6111256, 5751803, 5721542, 5287111, 5119069, 5077549, 5920259, 5886632. Canadian and international patents may also apply. Magellan is a trademark or registered trademark of Paradox Security Systems Ltd. or its affiliates in Canada, the United States and/or other countries.

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.



Printed in Canada 01/2007

MG5000-EI03