MAGELLAN™

32-Zone Wireless Transceiver Security Systems

MG5000 Version 4.7
MG5050 Version 4.92

SP SPECTRA®

4 to 32-Zone Expandable Security Systems

SP5500 • SP6000 • SP7000
Version 4.92

SP4000 • SP65
Version 5.12

Programming Guide

PARADOX™

Warranty

For complete warranty information on this product please refer to the Limited Warranty Statement found on our Web site: www.paradox.com. Your use of this Paradox product signifies your acceptance of all warranty terms and conditions.

Limitations of Alarm Systems

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

Your security system should therefore be considered as one of many tools available to reduce risk and/or damage of burglary, fire or other emergencies, such other tools include but are not limited to insurance coverage, fire prevention and extinguish devices, and sprinkler systems.
We also strongly recommend that you regularly maintain your security systems and stay aware of new and improved Paradox products and developments.
TBR-21: In order to comply with TBR-21, standard force dialing must be enabled.

CAUTION: The user is cautioned that any changes or modifications not expressly approved by Paradox Security Systems could void the user's authority to operate/use the equipment. This device complies with Industry Canada licence-exempt RSS standards). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.
Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.
This Class B digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.
This device complies with part 15 of the FCC Rules. Operation is subject to the following twoconditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

UL And ULC Warnings

This equipment has the capability of being programmed with features not verified for use in UL installations. To stay within UL and ULC 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 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.
- **WARNING: This equipment must be installed and maintained by qualified service personnel only**
- This equipment must be verified by a qualified technician once every three years.
- All keypads must use an anti-tamper switch.
- Do not bypass fire zones.
- 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.
- EOL resistor part #2011002000
- **For UL Installations**: Universal UB1640W 16.5 Vac min **40 VA**
- All outputs are rated from 11.3 Vdc to 12.7 Vdc
- 12 Vdc 4 Ah rechargeable acid/lead or gel cell backup battery (YUASA model #NP7-12 recommended) for residential use. Use a 7 Ah battery to comply with fire requirements.
- Wheelock 46T-12 siren

Things You Need to Know

About this Programming Guide

Use this programming guide to record programmed settings for your Magellan or Spectra SP control panel. This programming guide should be used along with the Magellan and Spectra SP Reference & Installation Manual (available online), whenever installing or programming your Magellan or Spectra SP system.

Conventions

The following typographical conventions are used throughout this guide:

Default Settings: Values which appear in bold typeface signify the default value: e.g., Access code length: ☐ 6 digits ☐ **4 digits** (*4 digits* is the default value)	QM: Installer Quick Menu (indicates that information on the topic can also be found in the Installer Quick Menu on page 7)
Section numbers and keypad keys also appear in bold typeface, enclosed by brackets: e.g., *Section* **[706]** *must be enabled...*	**WARNING: Important information**
Throughout this guide, Magellan (MG) and Spectra (SP) will be referred to as MG/SP	**NOTE:** Suggestion or reminder

Installer Code

The default installer code is **0000** *or* **000000**. This code allows you to enter programming mode, where you can program all features, options, and commands of the control panel, except for user codes. To change this code, see *System Codes* on page 30.

Maintenance Code

Similar to the installer code, the maintenance code allows you to enter programming mode and program all sections, except for user codes and communication settings (sections **[395]**, **[397]**, **[398]**, **[815]**, **[816]**, **[817]**, **[910]**, **[911]**, **[970]**, **[918]**, **[919]**, **[920]** to **[927]**, **[929]** to **[935]**, **[936]** to **[942]**, **[943]** to **[949]**, and **[975]**) – these sections can only be accessed using the installer code. Since there is no default code, see *System Codes* on page 30 to set a default.

System Master Code

The default system master code is **1234** or **123456**. The system master code allows you to utilize any arming method, as well as program user codes. To change the default code, see *System Codes* on page 30.

Panel Reset

Performing a panel reset will reset all panel settings to their preset, default values.

SP4000 / SP65 panels

To perform a panel reset for a SP4000 or SP65 control panel, proceed as follows:

1. Verify that the installer lock is disabled.
2. Remove the battery and AC power from the control panel.
3. Remove all connected wires and devices from the PG1 and zone 1 terminals.
4. Using a wire, short the PG1 and zone 1 terminals.
5. Reconnect the AC and battery power to the panel. Once connected, the following will occur: 1) **STATUS** LED flashes; 2) **STATUS** LED remains illuminated, indicating a reset is in progress; 3) **STATUS** LED flashes, indicating the reset is complete.
6. Remove the jumper wire.

All other MG/SP panels

To perform a panel reset for all other MG/SP panels:

1. Press and hold the panel's **RESET** button until the **STATUS** LED flashes (5 seconds).
2. Release the **RESET** button, and then push it once more, within two seconds.

To reset the panel to its default settings using section programming, see section **[950]** in *Usability Sections*, on page 53.

Entering Programming Mode

To enter programming mode, proceed as follows:

1. Press **ENTER**.
2. Enter your installer or maintenance code. Upon entering your code, the **ARM** and **STAY** LEDs will flash. To modify codes, see *System Codes* on page 30.
3. Enter the three-digit section you wish to program. The **ARM** and **STAY** LEDs remain illuminated.
4. Enter required data.

WARNING: To enter programming mode, all zones must be disarmed and StayD mode deactivated. To deactivate StayD, press OFF, enter your master or user code, and then press OFF.

Data Entry and Display

To access the data display mode, access the desired section and press **ENTER** before entering any data. Depending on the keypad(s) configured to your system, specific LEDs or icons will flash, thus indicating that you are in data display mode. Each time **ENTER** is pressed, the keypad will display the next digit in the current section, and will continue to do so through all the remaining sections, one digit at a time, without changing the programmed values; this is not available for sections using the *multiple feature select method*. Press **CLEAR** at any time, to exit data display mode.

There are two methods that can be used to enter data when in programming mode: *single digit data entry* and *feature select programming*.

Single Digit Data Entry Method

After entering programming mode, some sections will require you to 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 guide. When entering the final digit in a section, the panel will automatically save and advance to the next section. See *Decimal and Hexadecimal Programming* for details on the various keys, and their equivalent decimal and hexadecimal values.

Feature Select Programming Method

After entering certain sections, eight options will be displayed. In these instances, each option (from 1 to 8) represent a specific feature. To turn enable the option, press the key corresponding to the desired option. Press the key again to remove the digit, thereby, disabling the option. Press **SLEEP** to disable all eight options. When the options are set, press **ENTER** to save your settings and advance to the next section.

Viewing Version Numbers

Table 1: Viewing panel and keypad version numbers

Step	*Action*	*Details*	*When Viewing Keypad Version*
1	Enter viewing mode: • For panel version, enter section **[980]** • For keypad version, enter installer programming, then press and hold **ARM**	The first digit is displayed (usually *0*)	Digit 1: **ARM** is illuminated
2	Press **ENTER**	The second digit is displayed	Digit 2: **SLEEP** is illuminated
3	Press **ENTER**	The third digit is displayed	Digit 3: **STAY** is illuminated
4	Press **ENTER**	The fourth digit is displayed	Digit 4: **OFF** is illuminated

Example: Version 01.42

Digits 1-4

NOTE: For keypads K10V/H and K636, the keypad version numbers cannot be viewed.

Decimal and Hexadecimal Programming

Table 2: Decimal and hexadecimal values for 10 and 32-Zone LED keypads

Value or Action	*Key*	*Result*	
		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	Keys **1** to **9**
A (hex only)	**0**	Zone 10	Key **0** (10)
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 and Stay LEDs flash	Arm and Stay LEDs flash
Save data (hex only)	**ENTER**	Advances to next section	Advances to next section

EN 50131 Compliancy

To have your EVO panel compliant with EN 50131 standards, see *Appendix A* on page 68.

Contents

List of Worksheets

Installer Quick Menu

Zones

Step	Action	Details
1	⏻ + installer code	⏻ = flash; programmed zones are lit (buttons or LED, depending on keypad); maintenance code may also be used
2	Zone number	Two digits: **01** to **32**
3	Enroll or erase zone	Wireless zone: open/close cover or press **LEARN/TAMPER** switch; hardwired zone: press **ENTER**; to erase a programmed zone, press and hold **SLEEP** for three seconds
4	Zone type	See *Zone Definitions* on page 16, for the zone type
5	Assign partition (**1** and/or **2** + **ENTER**)	If applicable, assign the zone to one or both partitions, and then press **ENTER**; by default, all zones are assigned to partition 1

NOTE: If applicable, partition 2 status LEDs display signal strength of selected wireless zone (4 LEDs = best signal; 1 LED = weak signal; no LEDs = hardwired panel/keypad zone).

Delays

Step	Action	Details
1	⏻ + installer code	⏻ = flash; maintenance code may also be used
2	TBL	-
3	**1** = entry delay 1	Default: 045 sec.
	2 = entry delay 2	Default: 045 sec.
	3 = exit delay	Default: 060 sec.
	4 = bell cut-off	Default: 004 min.
4	**000** to **255**	Entry/exit delay = seconds; bell cut-off = minutes

Time and Date

Step	Action	Details
1	⏻ + installer code	⏻ = flash; maintenance code may also be used
2	TBL + **5**	-
3	Time (HH:MM)	If **HH** = 13 or more, go to step 5
4	Time format	**1** = 24 hr. format, **2** = AM, **3** = PM
5	Date (YYYY/MM/DD)	Enter the year/month/day

NOTE: For SP4000 and SP65 systems, the time format must be entered in 24 hr. format, therefore, omit step 4.

Walk Test Mode

Step	Action	Details
1	⏻ + installer code	⏻ = flash; maintenance code may also be used
2	TBL	-
3	**6**	Activates or deactivates walk test mode

Installer and Maintenance Codes

Step	Action	Details
1	⏻ + installer code	⏻ = flash
2	TBL	-
3	• **7** for installer code • **8** for maintenance code	-
4	Code	Enter a four or six-digit code
5	Confirm code	Re-enter the four or six-digit code, to confirm

NOTE: To erase a code, press and hold **SLEEP** for three seconds.

WinLoad/BabyWare

Step	Action	Details
1	⏻ + installer code	⏻ = flash
2	TBL	-
3	**9**	-
4	Phone # + **ENTER**	Enter PC phone number (up to 32 digits), and then press **ENTER**
5	Panel ID	Enter four-digit panel ID
6	PC password	Enter four-digit PC password

NOTE: To erase the WinLoad/BabyWare phone number, panel ID, and PC password, press and hold **SLEEP** for three seconds.

Monitoring Phone Number

Step	Action	Details
1	⏻ + installer code	⏻ = flash
2	MEM	-
3	**1**	-
4	Phone # + **ENTER**	Enter monitoring station phone number (up to 32 digits), and then press **ENTER**
5	Partition 1 account #	-
6	• **1** for CID • **2** for SIA	SIA is not supported with GPRS/IP reporting
7	Partition 2 account #	-

NOTE: To erase monitoring phone number, reporting format, and account numbers, press and hold **SLEEP** for three seconds.

Communicator

Step	Action	Details
1	⏻ + installer code	⏻ = flash; maintenance code may also be used
2	MEM	-
3	**2** = backup phone #	-
	3 = personal phone #1	
	4 = personal phone #2	
	5 = personal phone #3	
	6 = personal phone #4	
	7 = personal phone #5	
	8 = pager #	
4	Phone # + **ENTER**	Enter phone number (up to 32 digits), and then press **ENTER** to proceed to the next phone number, or go to step 5 if option **8** was selected
5	Message + **ENTER**	Enter pager message, and then press **ENTER**; this step applies only to the pager number

NOTE: To erase a phone number pager message, press and hold **SLEEP** for three seconds.

Cancel Communication

Step	Action	Details
1	⏻ + installer code	⏻ = flash; maintenance code may also be used
2	MEM	-
3	**9**	Cancels all communication with WinLoad, BabyWare, and GSM module

Keypad Programming

Assigning Keypad Zone Numbers

Step	Action	Details
1	**ENTER** + installer code	**ARM** + **STAY** = flash; maintenance code may also be used
2	Press and hold ⏻ for three seconds	**ARM** + **STAY** = ON
3	Zone number + **ENTER**	K35, K32, K32LCD, K32LX = two digits: **01** to **32**; K636, K10V/H = one digit: **1** to **0** (10)

NOTE: To erase a keypad zone number, press **CLEAR**, and then **ENTER**.

Entry Point Zone Assignment (StayD)

Step	Action	Details
1	**ENTER** + installer code	**ARM** + **STAY** = flash
2	Press and hold **OFF** for three seconds	**ARM** + **STAY** = ON
3	Zone number	K35, K32RF, K37, K32LCD, K32LX = two digits: **01** to **32**; K636, K10V/H = one digit: **1** to **0** (10; maximum ten zones); the first zone programmed will be the designated entry point and will flash; up to three more path zones can be added – these zones will light up and remain lit
4	**ENTER**	Press **ENTER** to save and exit

Keypad Input/Output Configuration (K636 V2.0 and higher)

Step	Action	Details
1	**ENTER** + installer code	**ARM** + **STAY** = flash
2	Press and hold **ENTER** for three seconds	**ARM** + **STAY** = ON
3	Option **1**	ON = output switches to ground following system arming (blue wire, maximum150 mA) **OFF** = input (keypad zone input)
4	Option **2**	ON = output N.C. **OFF** = output N.O.

NOTE: When configuring as an output, clear the assigned keypad zone first.

PGMs

Step	Action	Details
1	⏻ + installer code	⏻ = flash; maintenance code may also be used
2	BYP	-
3	PGM number	Two digits: **01** to **16**
4	Enroll or erase PGM	Wireless PGM = open/close cover; hardwired PGM = press **ENTER**
5	PGM type	**1** = Follow button ⏻ or ●
		2 = Follow button → or ●●
		3 = Follow zone
		4 = Follow alarm
		5 = Follow bell
		6 = Follow arm
		7 = Follow Stay arm
		8 = Follow Sleep arm
6	If PGM type is **1**, **2**, **3**, or **4**, enter activation delay	**1** = Follow
		2 = 1 sec.
		3 = 5 sec.
		4 = 15 sec.
		5 = 30 sec.
		6 = 1 min.
		7 = 5 min.
		8 = 15 min.
		9 = 30 min.
	If PGM type is **5**, proceed to the next available PGM	-
	If PGM type is **6**, **7**, or **8**, enter **1** and/or **2** + **ENTER**	If system is partitioned, select partition(s), and then press **ENTER** to proceed to the next available PGM
7	If PGM type is **1** or **2**, enter two-digit remote control #	01 to 32 (00 = all remote controls); the control panel proceeds to the next available PGM
	If PGM type is **3**, enter two-digit zone #	01 to 32 (00 = all zones); the control panel proceeds to the next available PGM
	If PGM type is **4**, enter **1** and/or **2** + **ENTER**	If system is partitioned, select partition(s), and then press **ENTER** to proceed to the next available PGM

NOTE: To erase a PGM, press and hold **SLEEP** for three seconds.

System Planning

Bus Module Planning

Worksheet 1: Planning Bus Modules

Serial # Sticker	Description	Path Zone (Entry Point)	Path Zone	Path Zone	Path Zone
Bus Module 1					
Bus Module 2					
Bus Module 3					
Bus Module 4					
Bus Module 5					
Bus Module 6					
Bus Module 7					
Bus Module 8					
Bus Module 9					
Bus Module 10					
Bus Module 11					
Bus Module 12					
Bus Module 13					
Bus Module 14					
Bus Module 15					

NOTE: Paths are only applicable when StayD is enabled.

Wireless Keypad Planning

Worksheet 2: Planning Wireless Keypads

Serial # Sticker	*Description*	*Path Zone (Entry Point)*	*Path Zone*	*Path Zone*	*Path Zone*
Wireless Keypad 1					
Wireless Keypad 2					
Wireless Keypad 3					
Wireless Keypad 4					
Wireless Keypad 5					
Wireless Keypad 6					
Wireless Keypad 7					
Wireless Keypad 8					

NOTE: When deleting a wireless keypad (K32RF/K37) from the system, the corresponding StayD path zones will also be deleted.

Wireless Siren Planning

Worksheet 3: Planning Wireless Sirens

Serial # Sticker	*Description*	*Serial # Sticker*	*Description*
Siren 1		Siren 3	
Siren 2		Siren 4	

Programmable Output (PGM) Planning

Worksheet 4: Planning Programmable Outputs

Serial # Sticker	Description
PGM 1	
PGM 2	
PGM 3	
PGM 4	
PGM 5	
PGM 6	
PGM 7	
PGM 8	

Serial # Sticker	Description
PGM 9	
PGM 10	
PGM 11	
PGM 12	
PGM 13	
PGM 14	
PGM 15	
PGM 16	

Wireless Repeater Planning

Worksheet 5: Planning Wireless Repeaters

Serial # Sticker	Description
Repeater 1	

Serial # Sticker	Description
Repeater 2	

Zone Planning

Worksheet 6: Planning Zones

Serial # Sticker	Zone #	Zone Description	Arming Method		
			Stay	Sleep	Full
Zone			☐	☐	☐
Zone			☐	☐	☐

Serial # Sticker	Zone #	Zone Description	Arming Method		
			Stay	Sleep	Full
Zone			☐	☐	☐
Zone			☐	☐	☐

Worksheet 6: Planning Zones (Continued)

			Arming Method		
Serial # Sticker	*Zone #*	*Zone Description*	*Stay*	*Sleep*	*Full*
Zone			☐	☐	☐
Zone			☐	☐	☐
Zone			☐	☐	☐
Zone			☐	☐	☐
Zone			☐	☐	☐
Zone			☐	☐	☐
Zone			☐	☐	☐
Zone			☐	☐	☐
Zone			☐	☐	☐
Zone			☐	☐	☐
Zone			☐	☐	☐
Zone			☐	☐	☐
Zone			☐	☐	☐
Zone			☐	☐	☐

			Arming Method		
Serial # Sticker	*Zone #*	*Zone Description*	*Stay*	*Sleep*	*Full*
Zone			☐	☐	☐
Zone			☐	☐	☐
Zone			☐	☐	☐
Zone			☐	☐	☐
Zone			☐	☐	☐
Zone			☐	☐	☐
Zone			☐	☐	☐
Zone			☐	☐	☐
Zone			☐	☐	☐
Zone			☐	☐	☐
Zone			☐	☐	☐
Zone			☐	☐	☐
Zone			☐	☐	☐
Zone			☐	☐	☐

Zone Recognition

NOTE: For keypad zone programming, see *Keypad Programming* on page 8.

MG Series

When expanding zones via ZX8, up to three ZX8 modules can be added to the system, and they are identified by the ZX8 three-position jumpers: +1, +9, and +17. Table 3 displays zone recognition information for MG control panels.

Table 3: Zone recognition information for the MG series

MG5000 (without ATZ)		
Type	*Zone*	*Description*
Panel	1	Panel input 1
	2	Panel input 2
ZX8 Jumper Panel + 1	3	Input 1
	4	Input 2
	5	Input 3
	6	Input 4
	7	Input 5
	8	Input 6
	9	Input 7
	10	Input 8
ZX8 Jumper Panel + 9	11	Input 1
	12	Input 2
	13	Input 3
	14	Input 4
	15	Input 5
	16	Input 6
	17	Input 7
	18	Input 8
ZX8 Jumper Panel + 17	19	Input 1
	20	Input 2
	21	Input 3
	22	Input 4
	23	Input 5
	24	Input 6
	25	Input 7
	26	Input 8
-	27	-
	28	-
	29	-
	30	-
	31	-
	32	-

MG5000 (with ATZ)		
Type	*Zone*	*Description*
Panel	1	Panel input 1A
	2	Panel input 2A
	3	Panel input 1B
	4	Panel input 2B
ZX8 Jumper Panel + 1	5	Input 1
	6	Input 2
	7	Input 3
	8	Input 4
	9	Input 5
	10	Input 6
	11	Input 7
	12	Input 8
ZX8 Jumper Panel + 9	13	Input 1
	14	Input 2
	15	Input 3
	16	Input 4
	17	Input 5
	18	Input 6
	19	Input 7
	20	Input 8
ZX8 Jumper Panel + 17	21	Input 1
	22	Input 2
	23	Input 3
	24	Input 4
	25	Input 5
	26	Input 6
	27	Input 7
	28	Input 8
-	29	-
	30	-
	31	-
	32	-

MG5050 (without ATZ)		
Type	*Zone*	*Description*
Panel	1	Panel input 1
	2	Panel input 2
	3	Panel input 3
	4	Panel input 4
	5	Panel input 5
ZX8 Jumper Panel + 1	6	Input 1
	7	Input 2
	8	Input 3
	9	Input 4
	10	Input 5
	11	Input 6
	12	Input 7
	13	Input 8
ZX8 Jumper Panel + 9	14	Input 1
	15	Input 2
	16	Input 3
	17	Input 4
	18	Input 5
	19	Input 6
	20	Input 7
	21	Input 8
ZX8 Jumper Panel + 17	22	Input 1
	23	Input 2
	24	Input 3
	25	Input 4
	26	Input 5
	27	Input 6
	28	Input 7
	29	Input 8
-	30	-
	31	-
	32	-

MG5050 (with ATZ)		
Type	*Zone*	*Description*
Panel	1	Panel input 1A
	2	Panel input 2A
	3	Panel input 3A
	4	Panel input 4A
	5	Panel input 5A
	6	Panel input 1B
	7	Panel input 2B
	8	Panel input 3B
	9	Panel input 4B
	10	Panel input 5B
ZX8 Jumper Panel + 1	11	Input 1
	12	Input 2
	13	Input 3
	14	Input 4
	15	Input 5
	16	Input 6
	17	Input 7
	18	Input 8
ZX8 Jumper Panel + 9	19	Input 1
	20	Input 2
	21	Input 3
	22	Input 4
	23	Input 5
	24	Input 6
	25	Input 7
	26	Input 8
ZX8 Jumper Panel + 17	27	Input 1
	28	Input 2
	29	Input 3
	30	Input 4
	31	Input 5
	32	Input 6

NOTE: If a device is assigned to a zone which is already programmed, a wireless zone will overwrite a keypad/hardwire zone and a keypad zone will overwrite a hardwire zone.

SP Series

When expanding zones via ZX8, up to three ZX8 modules can be added to the system, and they are identified by the ZX8 three-position jumpers: +1, +9, and +17. Table 4 displays zone recognition information for SP control panels.

Table 4: Zone recognition information for the SP series

SP4000 (without ATZ)			*SP4000 (with ATZ)*			*SP5500 (without ATZ)*			*SP5500 (with ATZ)*			*SP6000 (without ATZ)*			*SP6000 (with ATZ)*		
Type	*Zone*	*Description*	*Type*	*Zone*	*Description*	*Type*	*Zone*	*Description*	*Type*	*Zone*	*Description*	*Type*	*Zone*	*Description*	*Type*	*Zone*	*Description*
Panel	1	Panel input 1	Panel	1	Panel input 1A	Panel	1	Panel input 1	Panel	1	Panel input 1A	Panel	1	Panel input 1	Panel	1	Panel input 1A
	2	Panel input 2		2	Panel input 2A		2	Panel input 2		2	Panel input 2A		2	Panel input 2		2	Panel input 2A
	3	Panel input 3		3	Panel input 3A		3	Panel input 3		3	Panel input 3A		3	Panel input 3		3	Panel input 3A
	4	Panel input 4		4	Panel input 4A		4	Panel input 4		4	Panel input 4A		4	Panel input 4		4	Panel input 4A
ZX8 Jumper Panel + 1	5	Input 1		5	Panel input 1B		5	Panel input 5		5	Panel input 5A		5	Panel input 5		5	Panel input 5A
	6	Input 2		6	Panel input 2B	ZX8 Jumper Panel + 1	6	Input 1		6	Panel input 1B		6	Panel input 6		6	Panel input 6A
	7	Input 3		7	Panel input 3B		7	Input 2		7	Panel input 2B		7	Panel input 7		7	Panel input 7A
	8	Input 4		8	Panel input 4B		8	Input 3		8	Panel input 3B		8	Panel input 8		8	Panel input 8A
	9	Input 5	ZX8 Jumper Panel + 1	9	Input 1		9	Input 4		9	Panel input 4B	ZX8 Jumper Panel + 1	9	Input 1	Panel	9	Panel input 1B
	10	Input 6		10	Input 2		10	Input 5		10	Panel input 5B		10	Input 2		10	Panel input 2B
	11	Input 7		11	Input 3		11	Input 6	ZX8 Jumper Panel + 1	11	Input 1		11	Input 3		11	Panel input 3B
	12	Input 8		12	Input 4		12	Input 7		12	Input 2		12	Input 4		12	Panel input 4B
ZX8 Jumper Panel + 9	13	Input 1		13	Input 5		13	Input 8		13	Input 3		13	Input 5		13	Panel input 5B
	14	Input 2		14	Input 6	ZX8 Jumper Panel + 9	14	Input 1		14	Input 4		14	Input 6		14	Panel input 6B
	15	Input 3		15	Input 7		15	Input 2		15	Input 5		15	Input 7		15	Panel input 7B
	16	Input 4		16	Input 8		16	Input 3		16	Input 6		16	Input 8		16	Panel input 8B
	17	Input 5	ZX8 Jumper Panel + 9	17	Input 1		17	Input 4		17	Input 7	ZX8 Jumper Panel + 9	17	Input 1	ZX8 Jumper Panel + 1	17	Input 1
	18	Input 6		18	Input 2		18	Input 5		18	Input 8		18	Input 2		18	Input 2
	19	Input 7		19	Input 3		19	Input 6	ZX8 Jumper Panel + 9	19	Input 1		19	Input 3		19	Input 3
	20	Input 8		20	Input 4		20	Input 7		20	Input 2		20	Input 4		20	Input 4
ZX8 Jumper Panel + 17	21	Input 1		21	Input 5		21	Input 8		21	Input 3		21	Input 5		21	Input 5
	22	Input 2		22	Input 6	ZX8 Jumper Panel + 17	22	Input 1		22	Input 4		22	Input 6		22	Input 6
	23	Input 3		23	Input 7		23	Input 2		23	Input 5		23	Input 7		23	Input 7
	24	Input 4		24	Input 8		24	Input 3		24	Input 6		24	Input 8		24	Input 8
	25	Input 5	ZX8 Jumper Panel + 17	25	Input 1		25	Input 4		25	Input 7	ZX8 Jumper Panel + 17	25	Input 1	ZX8 Jumper Panel + 9	25	Input 1
	26	Input 6		26	Input 2		26	Input 5		26	Input 8		26	Input 2		26	Input 2
	27	Input 7		27	Input 3		27	Input 6	ZX8 Jumper Panel + 17	27	Input 1		27	Input 3		27	Input 3
	28	Input 8		28	Input 4		28	Input 7		28	Input 2		28	Input 4		28	Input 4
-	29	-		29	Input 5		29	Input 8		29	Input 3		29	Input 5		29	Input 5
	30	-		30	Input 6	-	30	-		30	Input 4		30	Input 6		30	Input 6
	31	-		31	Input 7		31	-		31	Input 5		31	Input 7		31	Input 7
	32	-		32	Input 8		32	-		32	Input 6		32	Input 8		32	Input 8

Table 4: Zone recognition information for the SP series (Continued)

SP65 (without ATZ)			*SP65 (with ATZ)*			*SP7000 (without ATZ)*			*SP7000 (with ATZ)*		
Type	*Zone*	*Description*	*Type*	*Zone*	*Description*	*Type*	*Zone*	*Description*	*Type*	*Zone*	*Description*
Panel	1	Panel input 1	Panel	1	Panel input 1A	Panel	1	Panel input 1	Panel	1	Panel input 1A
	2	Panel input 2		2	Panel input 2A		2	Panel input 2		2	Panel input 2A
	3	Panel input 3		3	Panel input 3A		3	Panel input 3		3	Panel input 3A
	4	Panel input 4		4	Panel input 4A		4	Panel input 4		4	Panel input 4A
	5	Panel input 5		5	Panel input 5A		5	Panel input 5		5	Panel input 5A
	6	Panel input 6		6	Panel input 6A		6	Panel input 6		6	Panel input 6A
	7	Panel input 7		7	Panel input 7A		7	Panel input 7		7	Panel input 7A
	8	Panel input 8		8	Panel input 8A		8	Panel input 8		8	Panel input 8A
	9	Panel input 9		9	Panel input 9A		9	Panel input 9		9	Panel input 9A
ZX8 Jumper Panel + 1	10	Input 1		10	Panel input 1B		10	Panel input 10		10	Panel input 10A
	11	Input 2		11	Panel input 2B		11	Panel input 11		11	Panel input 11A
	12	Input 3		12	Panel input 3B		12	Panel input 12		12	Panel input 12A
	13	Input 4		13	Panel input 4B		13	Panel input 13		13	Panel input 13A
	14	Input 5		14	Panel input 5B		14	Panel input 14		14	Panel input 14A
	15	Input 6		15	Panel input 6B		15	Panel input 15		15	Panel input 15A
	16	Input 7		16	Panel input 7B		16	Panel input 16		16	Panel input 16A
	17	Input 8		17	Panel input 8B	ZX8 Jumper Panel +	17	Input 1		17	Panel input 1B
ZX8 Jumper Panel + 9	18	Input 1		18	Panel input 9B		18	Input 2		18	Panel input 2B
	19	Input 2	ZX8 Jumper Panel + 1	19	Input 1		19	Input 3		19	Panel input 3B
	20	Input 3		20	Input 2		20	Input 4		20	Panel input 4B
	21	Input 4		21	Input 3		21	Input 5		21	Panel input 5B
	22	Input 5		22	Input 4		22	Input 6		22	Panel input 6B
	23	Input 6		23	Input 5		23	Input 7		23	Panel input 7B
	24	Input 7		24	Input 6		24	Input 8		24	Panel input 8B
	25	Input 8		25	Input 7	ZX8 Jumper Panel + 9	25	Input 1		25	Panel input 9B
ZX8 Jumper Panel + 17	26	Input 1		26	Input 8		26	Input 2		26	Panel input 10B
	27	Input 2	ZX8 Jumper Panel + 9	27	Input 1		27	Input 3		27	Panel input 11B
	28	Input 3		28	Input 2		28	Input 4		28	Panel input 12B
	29	Input 4		29	Input 3		29	Input 5		29	Panel input 13B
	30	Input 5		30	Input 4		30	Input 6		30	Panel input 14B
	31	Input 6		31	Input 5		31	Input 7		31	Panel input 15B
	32	Input 7		32	Input 6		32	Input 8		32	Panel input 16B

NOTE: If a device is assigned to a zone which is already programmed, a wireless zone will overwrite a keypad/hardwire zone and a keypad zone will overwrite a hardwire zone.

Zone Definitions

NOTE: If a device is assigned to a zone which is already programmed, a wireless zone will overwrite a keypad/hardwire zone and a keypad zone will overwrite a hardwire zone.

To define zones on your MG/SP control panel:

1. Press **ENTER**, and then enter your installer code (maintenance code may also be used). The **ARM** and **STAY** functions will flash.
2. Enter the three-digit zone number you wish to program (e.g., **001** to **032**). The **ARM** and **STAY** functions will remain illuminated.
3. Enter a two-digit zone definition, by referring to table 5.
4. Assign a partition, by referring to table 6. By default, all zones are assigned to partition 1.
5. Select or deselect zone options, using buttons **1** to **8** (see tables 7 and 8).
6. Press **ENTER** to save and proceed to the next zone.
7. Repeat steps 3 to 6 for all remaining zones.

Table 5: Zone definitions for MG/SP panels

Input Value	*Description*	*Arming Type*		
		Stay Arm	Sleep Arm	Fully Arm
00	Disabled (default)	-	-	-
01	Entry delay 1	Entry delay 1	Entry delay 1	Entry delay 1
02	Entry delay 2	Entry delay 2	Entry delay 2	Entry delay 2
03	Entry delay 1 (Full Arm)	Not armed	Not armed	Entry delay 1
04	Entry delay 2 (Full Arm)	Not armed	Not armed	Entry delay 2
05	Follow	Follow*	Follow*	Follow
06	Follow (sleep/full arm)	Not armed	Follow*	Follow
07	Follow (full arm)	Not armed	Not armed	Follow
08	Instant	Instant*	Instant*	Instant
09	Instant (sleep/full arm)	Not armed	Instant*	Instant
10	Instant (full arm)	Not armed	Not armed	Instant
11	Instant fire†	-	-	-
12	Delayed fire†	-	-	-
13	Instant fire silent†	-	-	-
14	Delayed fire silent†	-	-	-
15	24 hr. buzzer	-	-	-
16	24 hr. burglary	-	-	-
17	24 hr. hold-up	-	-	-
18	24 hr. gas	-	-	-
19	24 hr. heat	-	-	-
20	24 hr. water	-	-	-
21	24 hr. freeze	-	-	-
22	24 hr. panic‡	-	-	-
23	Follow no pre-alarm	-	-	-
24	Instant no pre-alarm	-	-	-
25	Keyswitch maintain**	-	-	-
26	Keyswitch momentary**	-	-	-
33	Instant no pre-alarm (stay/sleep)	Instant	Instant	Not armed
34	Instant no pre-alarm (sleep)	Not armed	Instant	Not armed
35	Entry delay 1 (stay/full)/instant	Entry delay 1	Instant	Entry delay 1
36	Entry delay 1 (full arm)/instant	Instant	Instant	Entry delay 1

* Flex-instant: zone will follow the delay at section **[720]** (default is 15 seconds/0 = instant zone).

** On-board, hardwire, control panel zones only.

† ZX8 inputs do not support fire zones. For two-wire smoke installations (not supported by SP4000/SP5500/SP65), these definitions apply to zone 1 input only. Section **[706]**, option 3, must be enabled. For four-wire smoke installations, use any panel, on-board zone input.

‡ This alarm will follow the panic 1 option (section **[702]**, option 1).

Table 6: Partition assignment for MG/SP panels

Input Value	*Description*
1	**Assign to partition 1**
2	Assign to partition 2
3	Assign to both partitions

NOTE: When using the K636 keypad, only partition 1 is available.

Table 7: Zone options for MG/SP panels

Input Value	*Description*
1	**Auto zone shutdown**
2	**Bypassable zone**
3	**RF zone supervision**
6	Intellizone
7	Delay alarm transmission
8	**Force zone**

Input Value		*Zone Alarm Type*
4	5	
OFF	**OFF**	**Audible alarm**
OFF	ON	Pulsed alarm
ON	OFF	Silent alarm
ON	ON	Report only

NOTE: For additional zone options, see *Zone Options* on page 38.

Table 8: Keyswitch options for MG/SP panels

Input Value	*Description*
1	-
2	-
3	-
4	**OFF = Disarm**; ON = Disarm only if Stay/Sleep armed
5	Arm only
6	Stay arming*
7	Sleep arming*
8	-

* Select only one. If all are OFF, keyswitch will regular arm.

Table 9: Permitted zone definitions for MG/SP panels

Input Value	*Description*	*Arming Type*			
		Disarm	Stay Arm	Sleep Arm	Fully Arm
00	Zone disabled	✔	✔	✔	✔
01	Entry delay 1	-	✔	✔	✔
02	Entry delay 2	-	✔	✔	✔
03	Entry delay 1 (Full Arm)	-	-	-	✔
04	Entry delay 2 (Full Arm)	-	-	-	✔
05	Follow	-	✔	✔	✔
06	Follow (sleep/full arm)	-	-	✔	✔
07	Follow (full arm)	-	-	-	✔
08	Instant	-	✔	✔	✔
09	Instant (sleep/full arm)	-	-	✔	✔
10	Instant (full arm)	-	-	-	✔
11	Instant fire	✔	✔	✔	✔
12	Delayed fire	✔	✔	✔	✔
13	Instant fire silent	✔	✔	✔	✔
14	Delayed fire silent	✔	✔	✔	✔
15	24 hr. buzzer	✔	✔	✔	✔

Input Value	*Description*	*Arming Type*			
		Disarm	Stay Arm	Sleep Arm	Fully Arm
16	24 hr. burglary	✔	✔	✔	✔
17	24 hr. hold-up	✔	✔	✔	✔
18	24 hr. gas	✔	✔	✔	✔
19	24 hr. heat	✔	✔	✔	✔
20	24 hr. water	✔	✔	✔	✔
21	24 hr. freeze	✔	✔	✔	✔
22	24 hr. panic	✔	✔	✔	✔
23	Follow no pre-alarm	-	✔	✔	✔
24	Instant no pre-alarm	-	✔	✔	✔
25	Keyswitch maintain	✔	✔	✔	✔
26	Keyswitch momentary	✔	✔	✔	✔
33	Instant no pre-alarm (stay/sleep)	-	✔	✔	-
34	Instant no pre-alarm (sleep)	-	-	✔	-
35	Entry delay 1 (stay/full)/instant	-	✔	✔	✔
36	Entry delay 1 (full arm)/instant	-	✔	✔	✔

Worksheet 7: Zone Definitions

Section	*Zone*	*Description (see tables 3 and 4)*	*Zone Definition*	*Partition*	*Zone Options*							
[001]	1	_____	____/____	_____	1	2	3	4	5	6	7	8
[002]	2	_____	____/____	_____	1	2	3	4	5	6	7	8
[003]	3	_____	____/____	_____	1	2	3	4	5	6	7	8
[004]	4	_____	____/____	_____	1	2	3	4	5	6	7	8
[005]	5	_____	____/____	_____	1	2	3	4	5	6	7	8
[006]	6	_____	____/____	_____	1	2	3	4	5	6	7	8
[007]	7	_____	____/____	_____	1	2	3	4	5	6	7	8
[008]	8	_____	____/____	_____	1	2	3	4	5	6	7	8
[009]	9	_____	____/____	_____	1	2	3	4	5	6	7	8
[010]	10	_____	____/____	_____	1	2	3	4	5	6	7	8
[011]	11	_____	____/____	_____	1	2	3	4	5	6	7	8
[012]	12	_____	____/____	_____	1	2	3	4	5	6	7	8
[013]	13	_____	____/____	_____	1	2	3	4	5	6	7	8
[014]	14	_____	____/____	_____	1	2	3	4	5	6	7	8
[015]	15	_____	____/____	_____	1	2	3	4	5	6	7	8
[016]	16	_____	____/____	_____	1	2	3	4	5	6	7	8

Section	*Zone*	*Description (see tables 3 and 4)*	*Zone Definition*	*Partition*	*Zone Options*							
[017]	17	_____	____/____	_____	1	2	3	4	5	6	7	8
[018]	18	_____	____/____	_____	1	2	3	4	5	6	7	8
[019]	19	_____	____/____	_____	1	2	3	4	5	6	7	8
[020]	20	_____	____/____	_____	1	2	3	4	5	6	7	8
[021]	21	_____	____/____	_____	1	2	3	4	5	6	7	8
[022]	22	_____	____/____	_____	1	2	3	4	5	6	7	8
[023]	23	_____	____/____	_____	1	2	3	4	5	6	7	8
[024]	24	_____	____/____	_____	1	2	3	4	5	6	7	8
[025]	25	_____	____/____	_____	1	2	3	4	5	6	7	8
[026]	26	_____	____/____	_____	1	2	3	4	5	6	7	8
[027]	27	_____	____/____	_____	1	2	3	4	5	6	7	8
[028]	28	_____	____/____	_____	1	2	3	4	5	6	7	8
[029]	29	_____	____/____	_____	1	2	3	4	5	6	7	8
[030]	30	_____	____/____	_____	1	2	3	4	5	6	7	8
[031]	31	_____	____/____	_____	1	2	3	4	5	6	7	8
[032]	32	_____	____/____	_____	1	2	3	4	5	6	7	8

NOTE: See worksheet 11 on page 19, for assigning wireless zones to your MG/SP control panel.

Custom Zone Definitions

With MG/SP control panels you can create up to four custom zone definition templates (use worksheet 8). Custom zone definition templates (sections **[033]** to **[036])** will overwrite zone definitions 33 to 36 in table 5 on page 16. Modifications can be made in accordance with table 9 (*Permitted zone definitions for MG/SP panels)*, on page 17.

Worksheet 8: Custom Zone Definitions

Section	*Description*	*Disarm*	*Stay Arm*	*Sleep Arm*	*Full Arm*
[033]	Zone definition template 1	_____/_____	_____/_____	_____/_____	_____/_____
[034]	Zone definition template 2	_____/_____	_____/_____	_____/_____	_____/_____
[035]	Zone definition template 3	_____/_____	_____/_____	_____/_____	_____/_____
[036]	Zone definition template 4	_____/_____	_____/_____	_____/_____	_____/_____

Zone Timers

Use the following section to program zone timers for your MG/SP control panel. Use worksheets 9 and 10 to record your settings.

NOTE: When both ATZ and EOL are enabled, the zone speed should not be set below 300 msec.

MG Series

Worksheet 9: Zone Timers for the MG Series

Section	*Zone*	*MG5000*	*MG5050*	*Data*	*Description (default: 060)*
[041]	1	(Z1)	(Z1)	____/____/____ (000 to 255) x 10 msec.	Speed of hardwire zone 1
[042]	2	(Z2)	(Z2)	____/____/____ (000 to 255) x 10 msec.	Speed of hardwire zone 2
[043]	3	(Z1 ATZ)	(Z3)	____/____/____ (000 to 255) x 10 msec.	Speed of hardwire zone 3
[044]	4	(Z2 ATZ)	(Z4)	____/____/____ (000 to 255) x 10 msec.	Speed of hardwire zone 4
[045]	5		(Z5)	____/____/____ (000 to 255) x 10 msec.	Speed of hardwire zone 5
[046]	6		(Z1 ATZ)	____/____/____ (000 to 255) x 10 msec.	Speed of hardwire zone 6
[047]	7		(Z2 ATZ)	____/____/____ (000 to 255) x 10 msec.	Speed of hardwire zone 7
[048]	8		(Z3 ATZ)	____/____/____ (000 to 255) x 10 msec.	Speed of hardwire zone 8
[049]	9		(Z4 ATZ)	____/____/____ (000 to 255) x 10 msec.	Speed of hardwire zone 9
[050]	10		(Z5 ATZ)	____/____/____ (000 to 255) x 10 msec.	Speed of hardwire zone 10
[051]	11			____/____/____ (000 to 255) x 10 msec.	Speed of hardwire zone 11
[052]	12			____/____/____ (000 to 255) x 10 msec.	Speed of hardwire zone 12
[053]	13			____/____/____ (000 to 255) x 10 msec.	Speed of hardwire zone 13
[054]	14			____/____/____ (000 to 255) x 10 msec.	Speed of hardwire zone 14
[055]	15			____/____/____ (000 to 255) x 10 msec.	Speed of hardwire zone 15
[056]	16			____/____/____ (000 to 255) x 10 msec.	Speed of hardwire zone 16

SP Series

Worksheet 10: Zone Timers for the SP Series

Section	*Zone*	*SP4000*	*SP5500*	*SP6000*	*SP65**	*SP7000***	*Data*	*Description (default: 060)*
[041]	1	(Z1)	(Z1)	(Z1)	(Z1)	(Z1)	____/____/____ (000 to 255) x 10 msec.	Speed of hardwire zone 1
[042]	2	(Z2)	(Z2)	(Z2)	(Z2)	(Z2)	____/____/____ (000 to 255) x 10 msec.	Speed of hardwire zone 2
[043]	3	(Z3)	(Z3)	(Z3)	(Z3)	(Z3)	____/____/____ (000 to 255) x 10 msec.	Speed of hardwire zone 3
[044]	4	(Z4)	(Z4)	(Z4)	(Z4)	(Z4)	____/____/____ (000 to 255) x 10 msec.	Speed of hardwire zone 4
[045]	5	(Z1 ATZ)	(Z5)	(Z5)	(Z5)	(Z5)	____/____/____ (000 to 255) x 10 msec.	Speed of hardwire zone 5
[046]	6	(Z2 ATZ)	(Z1 ATZ)	(Z6)	(Z6)	(Z6)	____/____/____ (000 to 255) x 10 msec.	Speed of hardwire zone 6
[047]	7	(Z3 ATZ)	(Z2 ATZ)	(Z7)	(Z7)	(Z7)	____/____/____ (000 to 255) x 10 msec.	Speed of hardwire zone 7
[048]	8	(Z4 ATZ)	(Z3 ATZ)	(Z8)	(Z8)	(Z8)	____/____/____ (000 to 255) x 10 msec.	Speed of hardwire zone 8
[049]	9		(Z4 ATZ)	(Z1 ATZ)	(Z9)	(Z9)	____/____/____ (000 to 255) x 10 msec.	Speed of hardwire zone 9
[050]	10		(Z5 ATZ)	(Z2 ATZ)	(Z1 ATZ)	(Z10)	____/____/____ (000 to 255) x 10 msec.	Speed of hardwire zone 10
[051]	11			(Z3 ATZ)	(Z2 ATZ)	(Z11)	____/____/____ (000 to 255) x 10 msec.	Speed of hardwire zone 11
[052]	12			(Z4 ATZ)	(Z3 ATZ)	(Z12)	____/____/____ (000 to 255) x 10 msec.	Speed of hardwire zone 12
[053]	13			(Z5 ATZ)	(Z4 ATZ)	(Z13)	____/____/____ (000 to 255) x 10 msec.	Speed of hardwire zone 13
[054]	14			(Z6 ATZ)	(Z5 ATZ)	(Z14)	____/____/____ (000 to 255) x 10 msec.	Speed of hardwire zone 14
[055]	15			(Z7 ATZ)	(Z6 ATZ)	(Z15)	____/____/____ (000 to 255) x 10 msec.	Speed of hardwire zone 15
[056]	16			(Z8 ATZ)	(Z7 ATZ)	(Z16)	____/____/____ (000 to 255) x 10 msec.	Speed of hardwire zone 16

* For zones 17-18 (ATZ), the zone timer is set to 600 msec.

** For zones 17-32 (ATZ), the zone timer is set to 600 msec.

Wireless Zone Assignment

Use the following section to program the wireless zones on your MG/SP control panel. Use worksheet 11 to record your settings.

Worksheet 11: Wireless Zones

Section	Zone	Wireless Zone (Serial #)	Section	Zone	Wireless Zone (Serial #)	Section	Zone	Wireless Zone (Serial #)
[061]	1	___/___/___/___/___/___	**[072]**	12	___/___/___/___/___/___	**[083]**	23	___/___/___/___/___/___
[062]	2	___/___/___/___/___/___	**[073]**	13	___/___/___/___/___/___	**[084]**	24	___/___/___/___/___/___
[063]	3	___/___/___/___/___/___	**[074]**	14	___/___/___/___/___/___	**[085]**	25	___/___/___/___/___/___
[064]	4	___/___/___/___/___/___	**[075]**	15	___/___/___/___/___/___	**[086]**	26	___/___/___/___/___/___
[065]	5	___/___/___/___/___/___	**[076]**	16	___/___/___/___/___/___	**[087]**	27	___/___/___/___/___/___
[066]	6	___/___/___/___/___/___	**[077]**	17	___/___/___/___/___/___	**[088]**	28	___/___/___/___/___/___
[067]	7	___/___/___/___/___/___	**[078]**	18	___/___/___/___/___/___	**[089]**	29	___/___/___/___/___/___
[068]	8	___/___/___/___/___/___	**[079]**	19	___/___/___/___/___/___	**[090]**	30	___/___/___/___/___/___
[069]	9	___/___/___/___/___/___	**[080]**	20	___/___/___/___/___/___	**[091]**	31	___/___/___/___/___/___
[070]	10	___/___/___/___/___/___	**[081]**	21	___/___/___/___/___/___	**[092]**	32	___/___/___/___/___/___
[071]	11	___/___/___/___/___/___	**[082]**	22	___/___/___/___/___/___			

NOTE: When assigning wireless zones, either enter the serial number or press **TAMPER/LEARN**. To delete the serial number, enter **000000**.

Wireless Transmitter Signal Strength

The signal strength test for wireless transmitters is performed in sections **[101]** to **[132]**; these sections represent zones 1 to 32, respectively. To test the wireless transmitter strength of your various wireless devices, proceed as follows:

1. Enter the zone's respective section (e.g., for zone 1, enter section **[101]**).
2. Press the transmitter's anti-tamper switch and note the number of beeps which are emitted. As shown in table 10, the number of beeps correspond to a preset signal strength range.

Table 10: Signal strength indicator for wireless transmitters

Number of Beeps	Signal Strength	Result
3	8 to 10	Strong signal
2	5 to 7	Average signal
1	1 to 4	Weak signal (relocate)

NOTE: The visual representation of a transmitter's signal strength is dependent on the type of keypad. For LED keypads, zones 1 through 10 will illuminate, depending on the signal strength. For instance, a signal strength of 8 will result in zones 1 through 8 to illuminate. For LCD keypads, a ten-level progress bar composed of arrows will appear, followed by the numeric value. For a signal strength of 8, eight arrows will appear, followed by the number 8.

Zone Report Codes and Labels

Use the following section to program zone report codes and labels on your MG/SP control panel.

Zone Report Codes

Use worksheet 12 to record your settings when programming zone report codes.

Worksheet 12: Zone Report Codes

Section	Zone	Alarm Report Codes	Alarm Restore Report Codes	Tamper Report Codes	Tamper Restore Report Codes	Section	Zone	Alarm Report Codes	Alarm Restore Report Codes	Tamper Report Codes	Tamper Restore Report Codes
[141]	1	___/___	___/___	___/___	___/___	**[157]**	17	___/___	___/___	___/___	___/___
[142]	2	___/___	___/___	___/___	___/___	**[158]**	18	___/___	___/___	___/___	___/___
[143]	3	___/___	___/___	___/___	___/___	**[159]**	19	___/___	___/___	___/___	___/___
[144]	4	___/___	___/___	___/___	___/___	**[160]**	20	___/___	___/___	___/___	___/___
[145]	5	___/___	___/___	___/___	___/___	**[161]**	21	___/___	___/___	___/___	___/___
[146]	6	___/___	___/___	___/___	___/___	**[162]**	22	___/___	___/___	___/___	___/___
[147]	7	___/___	___/___	___/___	___/___	**[163]**	23	___/___	___/___	___/___	___/___
[148]	8	___/___	___/___	___/___	___/___	**[164]**	24	___/___	___/___	___/___	___/___
[149]	9	___/___	___/___	___/___	___/___	**[165]**	25	___/___	___/___	___/___	___/___
[150]	10	___/___	___/___	___/___	___/___	**[166]**	26	___/___	___/___	___/___	___/___
[151]	11	___/___	___/___	___/___	___/___	**[167]**	27	___/___	___/___	___/___	___/___
[152]	12	___/___	___/___	___/___	___/___	**[168]**	28	___/___	___/___	___/___	___/___
[153]	13	___/___	___/___	___/___	___/___	**[169]**	29	___/___	___/___	___/___	___/___
[154]	14	___/___	___/___	___/___	___/___	**[170]**	30	___/___	___/___	___/___	___/___
[155]	15	___/___	___/___	___/___	___/___	**[171]**	31	___/___	___/___	___/___	___/___
[156]	16	___/___	___/___	___/___	___/___	**[172]**	32	___/___	___/___	___/___	___/___

Zone Labels

Use worksheet 13 to record your settings when programming zone labels.

Worksheet 13: Zone Labels

Section	Zone	Zone Label	Section	Zone	Zone Label
[181]	1	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__	[197]	17	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__
[182]	2	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__	[198]	18	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__
[183]	3	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__	[199]	19	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__
[184]	4	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__	[200]	20	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__
[185]	5	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__	[201]	21	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__
[186]	6	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__	[202]	22	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__
[187]	7	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__	[203]	23	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__
[188]	8	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__	[204]	24	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__
[189]	9	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__	[205]	25	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__
[190]	10	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__	[206]	26	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__
[191]	11	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__	[207]	27	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__
[192]	12	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__	[208]	28	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__
[193]	13	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__	[209]	29	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__
[194]	14	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__	[210]	30	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__
[195]	15	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__	[211]	31	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__
[196]	16	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__	[212]	32	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__

Programmable Output Programming QM

Use the following section to program programmable outputs (PGMs) on your MG/SP control panel.

Programmable Output Recognition

Table 11: Programmable outputs for MG/SP panels

PGM	PGM Output	Control Panel						
		MG5000	MG5050	SP4000	SP5500	SP6000	SP65	SP7000
1	Control panel output 1	✔	✔	✔	✔	✔	✔	✔
2	Control panel output 2	✔	✔	-	✔	✔	✔	✔
3	Control panel output 3	-	✔	-	-	Optional	✔	✔
4	Control panel output 4	-	✔	-	-	Optional	-	✔
5	Control panel relay	-	-	-	-	Optional	-	✔
6	ZX8 ID = 1 output	✔	✔	✔	✔	✔	✔	✔
7	ZX8 ID = 2 output	✔	✔	✔	✔	✔	✔	✔
8	ZX8 ID = 3 output	✔	✔	✔	✔	✔	✔	-
9	PGM4 relay 1	✔	✔	✔	✔	✔	✔	✔
10	PGM4 relay 2	✔	✔	✔	✔	✔	✔	✔
11	PGM4 relay 3	✔	✔	✔	✔	✔	✔	✔
12	PGM4 relay 4	✔	✔	✔	✔	✔	✔	✔
13	RTX3/RX1 output 1	-	-	✔	✔	✔	✔	✔
14	RTX3/RX1 output 2	-	-	✔	✔	✔	✔	✔
15	RTX3 output 3 (relay)	-	-	✔	✔	✔	✔	✔
16	RTX3 output 4 (relay)	Optional	Optional	Optional	Optional	Optional	Optional	Optional

NOTE: A wireless PGM module can be assigned to any PGM. These modules will work in parallel with the control panel output (not applicable to the SP4000).

Programmable Output on the K32LCD/K32LX

The on-board PGM of the K32LCD and K32LX (not programmable) will follow the arm status of any partition, via any arming method, including StayD. This only applies to versions 5.10 and higher, with an ECO number of J014.

Description of MG/SP Events

Table 12: List of events for MG/SP control panels

Event Group	*Event Group Description*	*Sub-group*	*Sub-group Description*
00	Zone OK	01 to 32	Zone number
01	Zone open	99	Any zone number
02	Partition status	00 to 01	-
		02	Silent alarm
		03	Buzzer alarm
		04	Steady alarm
		05	Pulsed alarm
		06	Strobe
		07	Alarm stopped
		08	Squawk ON (partition 1only)
		09	Squawk OFF (partition 1 only)
		10	Ground start (partition 1 only)
		11	Disarm partition
		12	Arm partition
		13	Entry delay started
		14	Exit delay started
		15	Pre-alarm delay
		16	Report confirmation
		99	Any partition status event
03	Bell status (partition 1 only)	00	Bell OFF
		01	Bell ON
		02	Bell squawk arm
		03	Bell squawk disarm
		99	Any bell status event
06	Non-reportable event	00	Telephone line trouble
		01	**CLEAR** + **ENTER**, or ⏻ was pressed for 3 secs. (partition 1 only)
		02	-
		03	Arm in Stay mode
		04	Arm in Sleep mode
		05	Arm in Force mode
		06	Full arm when armed in Stay mode
		07	PC fail to communicate (partition 1 only)
		08	Utility key 1 pressed (keys **1** and **2**; partition 1 only)
		09	Utility key 2 pressed (keys **4** and **5**; partition 1 only)
		10	Utility key 3 pressed (keys **7** and **8**; partition 1 only)
		11	Utility key 4 pressed (keys **2** and **3**; partition 1 only)
		12	Utility key 5 pressed (keys **5** and **6**; partition 1 only)
		13	Utility key 6 pressed (keys **8** and **9**; partition 1 only)
		14	Tamper generated alarm
		15	Supervision loss generated alarm
		16	-
		17	-
		18	-
		19	-
		20	Full arm when armed in Sleep mode
		21	Firmware upgrade (partition 1 only; non-PGM event)
		22	-
		23	StayD mode activated
		24	StayD mode deactivated

Table 12: List of events for MG/SP control panels (Continued)

Event Group	*Event Group Description*	*Sub-group*	*Sub-group Description*
06 (Cont.)	Non-reportable event (Cont.)	25	IP registration status change
		26	GPRS registration status change
		27	Armed with trouble(s)
		28	Supervision alert
		29	Supervision alert restore
		30	Armed with remote with low battery
		99	Any non-reportable event
08	Button pressed on remote (see *Default Data B*, in worksheet 26 on page 35)	01 to 32	Remote control number
		99	Any remote control number
09	Button pressed on remote (see *Default Data C*, in worksheet 26 on page 35)	01 to 32	Remote control number
		99	Any remote control number
10	Button pressed on remote (see *Default Data D*, in worksheet 26 on page 35)	01 to 32	Remote control number
		99	Any remote control number
11	Button pressed on remote (see *Default Data E*, in worksheet 26 on page 35)	01 to 32	Remote control number
		99	Any remote control number
12	Cold start wireless zone	01 to 32	Zone number
		99	Any zone number
13	Cold start wireless module (partition 1 only)	01 to 16	Output number
		17 to 18	Wireless repeater
		19 to 26	Wireless keypad
		27 to 30	Wireless siren
		99	Any output number
14	Bypass programming	01 to 32	User number
		99	Any user number
15	User code activated output (partition 1 only)	01 to 32	User number
		99	Any user number
16	Wireless smoke maintenance signal	01 to 32	Zone number
		99	Any zone number
17	Delay zone alarm transmission	01 to 32	Zone number
		99	Any zone number
18	Zone signal strength weak 1 (partition 1 only)	01 to 32	Zone number
		99	Any zone number
19	Zone signal strength weak 2 (partition 1 only)	01 to 32	Zone number
		99	Any zone number
20	Zone signal strength weak 3 (partition 1 only)	01 to 32	Zone number
		99	Any zone number
21	Zone signal strength weak 4 (partition 1 only)	01 to 32	Zone number
		99	Any zone number
22	Button pressed on remote (see option 5, in table 22 on page 34)	01 to 32	Remote control number
		99	Any remote control number
23	Button pressed on remote (see option 6, in table 22 on page 34)	01 to 32	Remote control number
		99	Any remote control number
24	Fire delay started	01 to 32	Zone number
		99	Any zone number

Table 12: List of events for MG/SP control panels (Continued)

Event Group	*Event Group Description*	*Sub-group*	*Sub-group Description*
25	-	-	-
26	Software access (VDMP3, IP100, WinLoad, BabyWare)	00	Non-valid source ID
		01	WinLoad/BabyWare direct
		02	WinLoad/BabyWare through IP module
		03	WinLoad/BabyWare through GSM module
		04	WinLoad/BabyWare through modem
		09	IP100 direct
		10	VDMP3 direct
		11	Voice through GSM module
		12	Remote access
		13	SMS through GSM module
		99	Any software access
27	Bus module event	00	A bus module was added
		01	A bus module was removed
		02	2-way RF module communication failure
		03	2-way RF module communication restored
		99	Any bus module event
28	StayD pass acknowledged	01 to 32	Zone number
		99	Any zone number
29	Arming with user	01 to 32	User number
		99	Any user number
30	Special arming	00	Auto-arming (on-time/no movement)
		01	Late to close
		02	No movement arming
		03	Partial arming
		04	Quick arming
		05	Arming through WinLoad/BabyWare
		06	Arming with keyswitch
		99	Any special arming
31	Disarming with user	01 to 32	User number
		99	Any user number
32	Disarming after an alarm with user	01 to 32	User number
		99	Any user number
33	Alarm cancelled with user	01 to 32	User number
		99	Any user number
34	Special disarming	00	Auto-arm cancelled (on-time/no movement)
		01	Disarming through WinLoad/BabyWare
		02	Disarming through WinLoad/BabyWare after alarm
		03	Alarm cancelled through WinLoad/BabyWare
		04	Paramedical alarm cancelled
		05	Disarm with keyswitch
		06	Disarm with keyswitch after an alarm
		07	Alarm cancelled with keyswitch
		99	Any special disarming
35	Zone bypassed	01 to 32	Zone number
		99	Any zone number
36	Zone in alarm	01 to 32	Zone number
		99	Any zone number
37	Fire alarm	01 to 32	Zone number
		99	Any zone number

Table 12: List of events for MG/SP control panels (Continued)

Event Group	*Event Group Description*	*Sub-group*	*Sub-group Description*
38	Zone alarm restore	01 to 32	Zone number
		99	Any zone number
39	Fire alarm restore	01 to 32	Zone number
		99	Any zone number
40	Special alarm	00	Panic non-medical emergency
		01	Panic medical (this panic alarm in not UL approved)
		02	Panic fire
		03	Recent closing
		04	Global shutdown
		05	Duress alarm
		06	Keypad lockout (partition 1 only)
		99	Any special alarm event
41	Zone shutdown	01 to 32	Zone number
		99	Any zone number
42	Zone tampered	01 to 32	Zone number
		99	Any zone number
43	Zone tamper restore	01 to 32	Zone number
		99	Any zone number

Table 12: List of events for MG/SP control panels (Continued)

Event Group	*Event Group Description*	*Sub-group*	*Sub-group Description*
44	New trouble (partition 1 only, except sub-group 07, which is for both partitions)	00	-
		01	AC failure
		02	Battery failure
		03	Auxiliary current overload
		04	Bell current overload
		05	Bell disconnected
		06	Clock loss
		07	Fire loop trouble
		08	Fail to communicate with monitoring station telephone # 1
		09	Fail to communicate with monitoring station telephone # 2
		11	Fail to communicate with voice report
		12	RF jamming
		13	GSM RF jamming
		14	GSM no service
		15	GSM supervision lost
		16	Fail to communicate IP receiver 1 (GPRS)
		17	Fail to communicate IP receiver 2 (GPRS)
		18	IP module no service
		19	IP module supervision loss
		20	Fail to communicate IP receiver 1 (IP)
		21	Fail to communicate IP receiver 2 (IP)
		22	GSM/GPRS module tamper trouble
		99	Any new trouble event
45	Trouble restored	00	Telephone line restored
		01	AC failure restore
		02	Battery failure restore
		03	Auxiliary current overload
		04	Bell current overload restore
		05	Bell disconnected restore
		06	Clock loss restore
		07	Fire loop trouble restore
		08	Fail to communicate with monitoring station tel. # 1 restore
		09	Fail to communicate with monitoring station tel. # 2 restore
		11	Fail to communicate with voice report restore
		12	RF jamming restore
		13	GMS RF jamming restore
		14	GSM no service restore
		15	GSM supervision lost restore
		16	Fail to communicate restore IP receiver 1 (GPRS)
		17	Fail to communicate restore IP receiver 2 (GPRS)
		18	IP module no service restore
		19	IP module supervision loss restore
		20	Fail to communicate restore IP receiver 1 (IP)
		21	Fail to communicate restore IP receiver 2 (IP)
		22	GSM/GPRS module tamper trouble restore
		99	Any new trouble restored event

Table 12: List of events for MG/SP control panels (Continued)

Event Group	*Event Group Description*	*Sub-group*	*Sub-group Description*
46	Bus/EBus/wireless module new trouble (partition 1 only)	00	Bus/EBus/wireless module communication fault
		01	Tamper trouble
		02	Power fail
		03	Battery failure
		99	Any bus module new trouble event
47	Bus/EBus/wireless module trouble restored (partition 1 only)	00	Bus/EBus/wireless module communication fault restore
		01	Tamper trouble restore
		02	Power fail restore
		03	Battery failure restore
		99	Any bus module new trouble restored event
48	Special (partition1 only)	00	System power up
		01	Reporting test
		02	Software log on
		03	Software log off
		04	Installer in programming mode
		05	Installer exited programming mode
		06	Maintenance in programming mode
		07	Maintenance exited programming mode
		08	Closing delinquency delay elapsed
		13	Failed to arm
		99	Any special event
49	Low battery on zone	01 to 32	Zone number
		99	Any zone number
50	Low battery on zone restore	01 to 32	Zone number
		99	Any zone number
51	Zone supervision trouble	01 to 32	Zone number
		99	Any zone number
52	Zone supervision restore	01 to 32	Zone number
		99	Any zone number
53	Wireless module supervision trouble (partition 1 only)	01 to 16	Output
		17 to 18	Wireless repeater
		19 to 22	Wireless keypad
		27 to 30	Wireless siren
		99	Any output number
54	Wireless module supervision restore (partition 1 only)	01 to 16	Output
		17 to 18	Wireless repeater
		19 to 22	Wireless keypad
		27 to 30	Wireless siren
		99	Any output number
55	Wireless module tamper trouble (partition 1 only)	01 to 16	Output
		17 to 18	Wireless repeater
		19 to 22	Wireless keypad
		27 to 30	Wireless siren
		99	Any output number
56	Wireless module tamper restore (partition 1 only)	01 to 16	Output
		17 to 18	Wireless repeater
		19 to 22	Wireless keypad
		27 to 30	Wireless siren
		99	Any output number

Table 12: List of events for MG/SP control panels (Continued)

Event Group	Event Group Description	Sub-group	Sub-group Description
57	Non-medical alarm (paramedic)	01 to 32	User number
		99	Any user number
58	Zone forced	01 to 32	Zone number
		99	Any zone number
59	Zone included	01 to 32	Zone number
	Zone included (Cont.)	99	Any zone number
60	Remote low battery	01 to 32	User number
		99	Any user number
61	Remote low battery restore	01 to 32	User number
		99	Any user number
64	System status (on-board PGMs only)	00	Follow **ARM** LED status*: PGM pulse fast in alarm PGM pulse fast in exit delay, below 10 sec. PGM pulse slow in exit delay, over 10 sec. PGM steady ON, if armed PGM OFF, if disarmed * This event can be assigned to partition 1 or 2. If assigned to both partitions, the PGM event will follow the list order above, with number 1 being the highest priority.

PGM Activation/Deactivation Events

Use worksheet 14 to record your settings for the MG/SP PGM events. See table 12 on page 21, for a list of these events.

Worksheet 14: PGM Activation/Deactivation Events

Section	PGM	Event	Event Group	Sub-group	Partition (99 for both)	Default
[220]	PGM 1	Activation	___/___	___/___	___/___	08/99/99*
[221]		Deactivation	___/___	___/___	___/___	00/00/00
[222]	PGM 2	Activation	___/___	___/___	___/___	09/99/99**
[223]		Deactivation	___/___	___/___	___/___	00/00/00
[224]	PGM 3	Activation	___/___	___/___	___/___	00/00/00
[225]		Deactivation	___/___	___/___	___/___	00/00/00
[226]	PGM 4	Activation	___/___	___/___	___/___	00/00/00
[227]		Deactivation	___/___	___/___	___/___	00/00/00
[228]	PGM 5	Activation	___/___	___/___	___/___	00/00/00
[229]		Deactivation	___/___	___/___	___/___	00/00/00
[230]	PGM 6	Activation	___/___	___/___	___/___	00/00/00
[231]		Deactivation	___/___	___/___	___/___	00/00/00
[232]	PGM 7	Activation	___/___	___/___	___/___	00/00/00
[233]		Deactivation	___/___	___/___	___/___	00/00/00
[234]	PGM 8	Activation	___/___	___/___	___/___	00/00/00
[235]		Deactivation	___/___	___/___	___/___	00/00/00

Section	PGM	Event	Event Group	Sub-group	Partition (99 for both)	Default
[236]	PGM 9	Activation	___/___	___/___	___/___	00/00/00
[237]		Deactivation	___/___	___/___	___/___	00/00/00
[238]	PGM 10	Activation	___/___	___/___	___/___	00/00/00
[239]		Deactivation	___/___	___/___	___/___	00/00/00
[240]	PGM 11	Activation	___/___	___/___	___/___	00/00/00
[241]		Deactivation	___/___	___/___	___/___	00/00/00
[242]	PGM 12	Activation	___/___	___/___	___/___	00/00/00
[243]		Deactivation	___/___	___/___	___/___	00/00/00
[244]	PGM 13	Activation	___/___	___/___	___/___	08/99/01
[245]		Deactivation	___/___	___/___	___/___	08/99/01
[246]	PGM 14	Activation	___/___	___/___	___/___	09/99/01
[247]		Deactivation	___/___	___/___	___/___	09/99/01
[248]	PGM 15	Activation	___/___	___/___	___/___	00/00/00
[249]		Deactivation	___/___	___/___	___/___	00/00/00
[250]	PGM 16	Activation	___/___	___/___	___/___	00/00/00
[251]		Deactivation	___/___	___/___	___/___	00/00/00

* Section **[220]**, PGM 1 activation event: default = option B remote assignment. Button pressed on any remote/any partition (see table 22 on page 34).

** Section **[222]**, PGM 2 activation event: default = option C remote assignment. Button pressed on any remote/any partition (see table 22 on page 34).

PGM Options

Table 13: Description of PGM options

Option	Description	PGM 1 [261]		PGM 2 [262]		PGM 3 [263]		PGM 4 [264]		PGM 5 [265]		PGM 6 [266]		PGM 7 [267]		PGM 8 [268]	
		OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON
1	PGM base time (OFF = sec., ON = min.)	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□
2	PGM state (OFF = N.O.; ON = N.C.)	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□
3	PGM supervision (not applicable to SP4000)	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲
4	PGM activation mode (OFF = steady; ON = pulse)	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□
5	PGM pulse once every 30 seconds, if armed	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□
6	PGM pulse on any alarm	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□
7	PGM pulse on any alarm (OFF = partition 1; ON = partition 2)	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□
8	Flexible PGM deactivation option (OFF[1] = PGM delay only, two activation events; ON = PGM delay or deactivation event, whichever comes first)	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□
Option	Description	PGM 9 [269]		PGM 10 [270]		PGM 11 [271]		PGM 12 [272]		PGM 13 [273]		PGM 14 [274]		PGM 15 [275]		PGM 16 [276]	
		OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON
1	PGM base time (OFF = sec., ON = min.)	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□
2	PGM state (OFF = N.O.; ON = N.C.)	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□
3	PGM supervision (not applicable to SP4000)	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲
4	PGM activation mode (OFF = steady; ON = pulse)	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□
5	PGM pulse once every 30 seconds, if armed	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□
6	PGM pulse on any alarm	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□
7	PGM pulse on any alarm (OFF = partition 1; ON = partition 2)	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□
8	Flexible PGM deactivation option (OFF[1] = PGM delay only, two activation events; ON = PGM delay or deactivation event, whichever comes first)	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□

▲= Default Setting

[1] If a PGM delay is programmed (OFF option), the deactivation event can be used as a second activation event.

Section [277] for SP65

Table 14: Description of section [277] for SP65

Option	Option Type	Description	[277]	
			OFF	ON
1	Voltage output (OFF = negative trigger, 0V; ON = positive trigger, 12V)	PGM 1	▲	□
2		PGM 2	▲	□
3		PGM 3	▲	□

▲= Default Setting

NOTE: Section **[277]** only applies to the SP65 system.

PGM Delays

Use worksheet 15 to record your settings for the MG/SP PGM delays.

Worksheet 15: PGM Delays

Section	PGM	PGM Delay Value	Default
[281]	PGM 1	___/___/___ (001 to 255 x 1 sec./min.)	005
[282]	PGM 2	___/___/___ (001 to 255 x 1 sec./min.)	005
[283]	PGM 3	___/___/___ (001 to 255 x 1 sec./min.)	005
[284]	PGM 4	___/___/___ (001 to 255 x 1 sec./min.)	005
[285]	PGM 5	___/___/___ (001 to 255 x 1 sec./min.)	005
[286]	PGM 6	___/___/___ (001 to 255 x 1 sec./min.)	005
[287]	PGM 7	___/___/___ (001 to 255 x 1 sec./min.)	005
[288]	PGM 8	___/___/___ (001 to 255 x 1 sec./min.)	005

Section	PGM	PGM Delay Value	Default
[289]	PGM 9	___/___/___ (001 to 255 x 1 sec./min.)	005
[290]	PGM 10	___/___/___ (001 to 255 x 1 sec./min.)	005
[291]	PGM 11	___/___/___ (001 to 255 x 1 sec./min.)	005
[292]	PGM 12	___/___/___ (001 to 255 x 1 sec./min.)	005
[293]	PGM 13	___/___/___ (001 to 255 x 1 sec./min.)	000
[294]	PGM 14	___/___/___ (001 to 255 x 1 sec./min.)	000
[295]	PGM 15	___/___/___ (001 to 255 x 1 sec./min.)	005
[296]	PGM 16	___/___/___ (001 to 255 x 1 sec./min.)	005

NOTE: To change the base time (minutes or seconds), see *PGM Options* on page 28.

PGM Serial Numbers

Use worksheet 16 to record your settings for the MG/SP PGM serial numbers. To delete a wireless PGM, enter **000000**, while in the PGM's respective section. For automatic assignment, press the PGM's anti-tamper switch, while in the PGM's respective section.

Worksheet 16: PGM Serial Numbers

Section	PGM	Wireless PGM Serial Number
[301]	PGM 1	___/___/___/___/___/___
[302]	PGM 2	___/___/___/___/___/___
[303]	PGM 3	___/___/___/___/___/___
[304]	PGM 4	___/___/___/___/___/___
[305]	PGM 5	___/___/___/___/___/___
[306]	PGM 6	___/___/___/___/___/___
[307]	PGM 7	___/___/___/___/___/___
[308]	PGM 8	___/___/___/___/___/___

Section	PGM	Wireless PGM Serial Number
[309]	PGM 9	___/___/___/___/___/___
[310]	PGM 10	___/___/___/___/___/___
[311]	PGM 11	___/___/___/___/___/___
[312]	PGM 12	___/___/___/___/___/___
[313]	PGM 13	___/___/___/___/___/___
[314]	PGM 14	___/___/___/___/___/___
[315]	PGM 15	___/___/___/___/___/___
[316]	PGM 16	___/___/___/___/___/___

NOTE: To view a PGM's serial number, see section **[960]** in *Description of Sections [950], [955], and [960]* on page 53.

Wireless PGM Signal Strength

The signal strength for wireless PGMs is visible in sections **[321]** to **[336]**; these sections represent PGMs 1 to 16, respectively. To view the signal strength, proceed as follows:

1. Enter the wireless PGM's respective section (e.g., for PGM1, enter section **[321]**).
2. Press the PGM's anti-tamper switch. As shown in table 15, the number of beeps correspond to a preset signal strength range.

Table 15: Signal strength indicator for wireless PGMs

Number of Beeps	Signal Strength	Result
3	8 to 10	Strong signal
2	5 to 7	Average signal
1	1 to 4	Weak signal (relocate)

NOTE: The visual representation of a PGM's signal strength is dependent on the type of keypad. For LED keypads, zones 1 through 10 will illuminate, depending on the signal strength. For instance, a signal strength of 8 will result in zones 1 through 8 to illuminate. For LCD keypads, a ten-level progress bar composed of arrows will appear, followed by the numeric value. For a signal strength of 8, eight arrows will appear, followed by the number 8.

PGM Labels

Use worksheet 17 to record your settings for the MG/SP PGM labels. To reset these labels, see *Description of Section [965]* on page 53.

Worksheet 17: PGM Labels

Section	PGM	PGM Label
[341]	PGM 1	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__
[342]	PGM 2	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__
[343]	PGM 3	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__
[344]	PGM 4	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__
[345]	PGM 5	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__
[346]	PGM 6	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__
[347]	PGM 7	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__
[348]	PGM 8	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__

Section	PGM	PGM Label
[349]	PGM 9	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__
[350]	PGM 10	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__
[351]	PGM 11	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__
[352]	PGM 12	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__
[353]	PGM 13	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__
[354]	PGM 14	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__
[355]	PGM 15	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__
[356]	PGM 16	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__

NOTE: For special characters and keypad letter assignments, see *Label Programming with LCD Keypads* on page 54.

User Programming

Use the following section to program the various user features on your MG/SP control panel.

System Codes

Use worksheet 18 to record your settings for the MG/SP system codes. For access options, see section **[701]**, in table 25 on page 37.

NOTE: The maintenance code cannot access the following sections: **[395]** (Installer code lock); **[397]** (Installer code); **[398]** (Maintenance code); **[815]** (Monitoring station telephone number 1); **[816]** (Monitoring station telephone number 2); **[817]** (Backup monitoring station telephone); **[910]** (Panel ID); **[911]** (PC password); **[970]** (Download memory key into panel); **[975]** (Upload panel into the memory key).

Worksheet 18: User System Codes

Section	*Data*	*Description*	*Default Setting*
[395]	___/___/___	Installer code lock*	000
[397]	___/___/___/___/___/___	Installer code	000000
[398]	___/___/___/___/___/___	Maintenance code	-
[399]	___/___/___/___/___/___	System master code	123456

* Enter *147* to lock entire control panel. Once locked, enter any other three-digit combination to unlock.

WARNING: The installer and system master codes may consist of four or six digits (see option 1 of section [701], in table 25 on page 37). The control panel automatically removes the last two digits of these codes, if the length is changed from six digits to four. However, if the access code length is changed from four digits to six, the control panel adds the code's first two digits to the end of the code.

User Code Options

Use worksheet 19 to record your settings for the MG/SP user code options. See table 16 for details on these options.

Table 16: User code options for MG/SP control panels

Option	*Description*
1	**Partition 1 access**
2	Partition 2 access
3	**Bypass programming**
4	**Stay/Sleep arming**
5	**Force arming**
6	Arm only
7	PGM activation only
8	Duress

WARNING: When section [400] is accessed, the control panel will copy the saved value of that section to all user option sections (sections [404] to [432]).

Worksheet 19: User Code Options

Section	*User*	*Options*							
[400]	Default option	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**
[401]	System master	①	②	③	④	⑤	6	7	8
[402]	Master 1	①	2	③	④	⑤	6	7	8
[403]	Master 2	1	②	③	④	⑤	6	7	8
[404]	User 4	1	2	3	4	5	6	7	8
[405]	User 5	1	2	3	4	5	6	7	8
[406]	User 6	1	2	3	4	5	6	7	8
[407]	User 7	1	2	3	4	5	6	7	8
[408]	User 8	1	2	3	4	5	6	7	8
[409]	User 9	1	2	3	4	5	6	7	8
[410]	User 10	1	2	3	4	5	6	7	8
[411]	User 11	1	2	3	4	5	6	7	8
[412]	User 12	1	2	3	4	5	6	7	8
[413]	User 13	1	2	3	4	5	6	7	8
[414]	User 14	1	2	3	4	5	6	7	8
[415]	User 15	1	2	3	4	5	6	7	8
[416]	User 16	1	2	3	4	5	6	7	8

Section	*User*	*Options*							
[417]	User 17	1	2	3	4	5	6	7	8
[418]	User 18	1	2	3	4	5	6	7	8
[419]	User 19	1	2	3	4	5	6	7	8
[420]	User 20	1	2	3	4	5	6	7	8
[421]	User 21	1	2	3	4	5	6	7	8
[422]	User 22	1	2	3	4	5	6	7	8
[423]	User 23	1	2	3	4	5	6	7	8
[424]	User 24	1	2	3	4	5	6	7	8
[425]	User 25	1	2	3	4	5	6	7	8
[426]	User 26	1	2	3	4	5	6	7	8
[427]	User 27	1	2	3	4	5	6	7	8
[428]	User 28	1	2	3	4	5	6	7	8
[429]	User 29	1	2	3	4	5	6	7	8
[430]	User 30	1	2	3	4	5	6	7	8
[431]	User 31	1	2	3	4	5	6	7	8
[432]	User 32	1	2	3	4	5	6	7	8

NOTE: The system master, master 1, and master 2 user code options cannot be modified. However, if partitioning is not enabled, the user code options for master 2 will match those of master 1.

User Report Codes

Use worksheet 20 to record your settings for the MG/SP user report codes (the default code is **FF**). To clear and reset these codes, see *Description of Sections [966] and [967]* on page 54.

Worksheet 20: User Report Codes

Section	User	Arming	Disarming/Cancel Alarm	Section	User	Arming	Disarming/Cancel Alarm
[471]	System master	____/____	____/____	**[487]**	User 17	____/____	____/____
[472]	Master 1	____/____	____/____	**[488]**	User 18	____/____	____/____
[473]	Master 2	____/____	____/____	**[489]**	User 19	____/____	____/____
[474]	User 4	____/____	____/____	**[490]**	User 20	____/____	____/____
[475]	User 5	____/____	____/____	**[491]**	User 21	____/____	____/____
[476]	User 6	____/____	____/____	**[492]**	User 22	____/____	____/____
[477]	User 7	____/____	____/____	**[493]**	User 23	____/____	____/____
[478]	User 8	____/____	____/____	**[494]**	User 24	____/____	____/____
[479]	User 9	____/____	____/____	**[495]**	User 25	____/____	____/____
[480]	User 10	____/____	____/____	**[496]**	User 26	____/____	____/____
[481]	User 11	____/____	____/____	**[497]**	User 27	____/____	____/____
[482]	User 12	____/____	____/____	**[498]**	User 28	____/____	____/____
[483]	User 13	____/____	____/____	**[499]**	User 29	____/____	____/____
[484]	User 14	____/____	____/____	**[500]**	User 30	____/____	____/____
[485]	User 15	____/____	____/____	**[501]**	User 31	____/____	____/____
[486]	User 16	____/____	____/____	**[502]**	User 32	____/____	____/____

NOTE: For instructions on formatting report codes, see *Entering Report Codes* on page 45.

User Labels

Use worksheet 21 to record your settings for the MG/SP user labels. To reset these labels, see *Description of Section [965]* on page 53.

Worksheet 21: User Labels

Section	User	User Label	Section	User	User Label
[511]	1	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__	**[527]**	17	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__
[512]	2	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__	**[528]**	18	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__
[513]	3	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__	**[529]**	19	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__
[514]	4	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__	**[530]**	20	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__
[515]	5	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__	**[531]**	21	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__
[516]	6	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__	**[532]**	22	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__
[517]	7	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__	**[533]**	23	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__
[518]	8	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__	**[534]**	24	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__
[519]	9	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__	**[535]**	25	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__
[520]	10	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__	**[536]**	26	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__
[521]	11	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__	**[537]**	27	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__
[522]	12	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__	**[538]**	28	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__
[523]	13	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__	**[539]**	29	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__
[524]	14	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__	**[540]**	30	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__
[525]	15	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__	**[541]**	31	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__
[526]	16	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__	**[542]**	32	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__

NOTE: For special characters and keypad letter assignments, see *Label Programming with LCD Keypads* on page 54.

Wireless Repeater Programming (RPT1)

Use the following section to program the wireless repeaters on your MG/SP control panel.

Wireless Repeater Assignment

Use worksheet 22 to record your settings when assigning wireless repeaters to your MG/SP control panel. To reset wireless repeaters, see *Description of Section [965]* on page 53.

Worksheet 22: Wireless Repeater Assignment

Section	Description	Wireless Repeater Serial Number
[545]	Repeater 1	___/___/___/___/___/___
[546]	Repeater 2	___/___/___/___/___/___

NOTE: For automatic assignment, press the wireless repeater's anti-tamper switch, while in the repeater's respective section.

Wireless Repeater Signal Strength

The signal strength for wireless repeaters is visible in sections **[548]** and **[549]**; these sections represent repeaters 1 and 2, respectively. To view the signal strength, proceed as follows:

1. Enter the wireless repeater's respective section (e.g., for repeater 1, enter section **[548]**).
2. Press the repeater's anti-tamper switch. As shown in table 17, the number of beeps correspond to a preset signal strength range.

Table 17: Signal strength indicator for wireless repeaters

Number of Beeps	*Signal Strength*	*Result*
3	8 to 10	Strong signal
2	5 to 7	Average signal
1	1 to 4	Weak signal (relocate)

NOTE: The visual representation of a repeater's signal strength is dependent on the type of keypad. For LED keypads, zones 1 through 10 will illuminate, depending on the signal strength. For instance, a signal strength of 8 will result in zones 1 through 8 to illuminate. For LCD keypads, a ten-level progress bar composed of arrows will appear, followed by the numeric value. For a signal strength of 8, eight arrows will appear, followed by the number 8.

Wireless Repeater Options

Table 18: Description of the wireless repeater options

Option	*Description*	***RPT1 [551]***		***RPT2 [561]***	
		OFF	**ON**	**OFF**	**ON**
1	Repeat wireless keypad 1 signals	▲	□	▲	□
2	Repeat wireless keypad 2 signals	▲	□	▲	□
3	Repeat wireless keypad 3 signals	▲	□	▲	□
4	Repeat wireless keypad 4 signals	▲	□	▲	□
5	Repeat wireless keypad 5 signals	▲	□	▲	□
6	Repeat wireless keypad 6 signals	▲	□	▲	□
7	Repeat wireless keypad 7 signals	▲	□	▲	□
8	Repeat wireless keypad 8 signals	▲	□	▲	□

Option	*Description*	***RPT1 [552]***		***RPT2 [562]***	
		OFF	**ON**	**OFF**	**ON**
1	Repeat wireless zone 1 signals	▲	□	▲	□
2	Repeat wireless zone 2 signals	▲	□	▲	□
3	Repeat wireless zone 3 signals	▲	□	▲	□
4	Repeat wireless zone 4 signals	▲	□	▲	□
5	Repeat wireless zone 5 signals	▲	□	▲	□
6	Repeat wireless zone 6 signals	▲	□	▲	□
7	Repeat wireless zone 7 signals	▲	□	▲	□
8	Repeat wireless zone 8 signals	▲	□	▲	□

Option	*Description*	***RPT1 [553]***		***RPT2 [563]***	
		OFF	**ON**	**OFF**	**ON**
1	Repeat wireless zone 9 signals	▲	□	▲	□
2	Repeat wireless zone 10 signals	▲	□	▲	□
3	Repeat wireless zone 11 signals	▲	□	▲	□
4	Repeat wireless zone 12 signals	▲	□	▲	□
5	Repeat wireless zone 13 signals	▲	□	▲	□
6	Repeat wireless zone 14 signals	▲	□	▲	□
7	Repeat wireless zone 15 signals	▲	□	▲	□
8	Repeat wireless zone 16 signals	▲	□	▲	□

Option	*Description*	***RPT1 [554]***		***RPT2 [564]***	
		OFF	**ON**	**OFF**	**ON**
1	Repeat wireless zone 17 signals	▲	□	▲	□
2	Repeat wireless zone 18 signals	▲	□	▲	□
3	Repeat wireless zone 19 signals	▲	□	▲	□
4	Repeat wireless zone 20 signals	▲	□	▲	□
5	Repeat wireless zone 21 signals	▲	□	▲	□
6	Repeat wireless zone 22 signals	▲	□	▲	□
7	Repeat wireless zone 23 signals	▲	□	▲	□
8	Repeat wireless zone 24 signals	▲	□	▲	□

Option	*Description*	***RPT1 [555]***		***RPT2 [565]***	
		OFF	**ON**	**OFF**	**ON**
1	Repeat wireless zone 25 signals	▲	□	▲	□
2	Repeat wireless zone 26 signals	▲	□	▲	□
3	Repeat wireless zone 27 signals	▲	□	▲	□
4	Repeat wireless zone 28 signals	▲	□	▲	□
5	Repeat wireless zone 29 signals	▲	□	▲	□
6	Repeat wireless zone 30 signals	▲	□	▲	□
7	Repeat wireless zone 31 signals	▲	□	▲	□
8	Repeat wireless zone 32 signals	▲	□	▲	□

Option	*Description*	***RPT1 [556]***		***RPT2 [566]***	
		OFF	**ON**	**OFF**	**ON**
1	Repeat wireless two-way PGM 1 signals	▲	□	▲	□
2	Repeat wireless two-way PGM 2 signals	▲	□	▲	□
3	Repeat wireless two-way PGM 3 signals	▲	□	▲	□
4	Repeat wireless two-way PGM 4 signals	▲	□	▲	□
5	Repeat wireless two-way PGM 5 signals	▲	□	▲	□
6	Repeat wireless two-way PGM 6 signals	▲	□	▲	□
7	Repeat wireless two-way PGM 7 signals	▲	□	▲	□
8	Repeat wireless two-way PGM 8 signals	▲	□	▲	□

Option	*Description*	***RPT1 [557]***		***RPT2 [567]***	
		OFF	**ON**	**OFF**	**ON**
1	Repeat wireless two-way PGM 9 signals	▲	□	▲	□
2	Repeat wireless two-way PGM 10 signals	▲	□	▲	□
3	Repeat wireless two-way PGM 11 signals	▲	□	▲	□
4	Repeat wireless two-way PGM 12 signals	▲	□	▲	□
5	Repeat wireless two-way PGM 13 signals	▲	□	▲	□
6	Repeat wireless two-way PGM 14 signals	▲	□	▲	□
7	Repeat wireless two-way PGM 15 signals	▲	□	▲	□
8	Repeat wireless two-way PGM 16 signals	▲	□	▲	□

▲= Default Setting

Wireless Repeater Labels

Use worksheet 23 to record your settings for wireless repeater labels. To reset these labels, see *Description of Section [965]* on page 53.

Worksheet 23: Wireless Repeater Labels

Section	Description	Wireless Repeater Label
[568]	Repeater 1	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__
[569]	Repeater 2	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__

NOTE: For special characters and keypad letter assignments, see *Label Programming with LCD Keypads* on page 54.

Wireless Keypad Programming

Automatic Wireless Keypad Assignment

After powering-up, the control panel will open a ten-minute window for automatic assignment. To assign a keypad to your MG/SP control panel, press and hold ⏻ and **BYP** for three seconds on the respective keypad. Up to eight wireless keypads can be assigned within this ten-minute period.

Compatibility Check (K37 only)

If the K37 is not compatible with the current MG/SP control panel version, the following trouble will be displayed: **[TROUBLE: FLASH] [17: ON]**. If this occurs, update your MG/SP control panel to version 3.2 or higher.

Standard Wireless Keypad Assignment

Use worksheet 24 to record your settings, when assigning wireless keypads to your MG/SP control panel. To assign your wireless keypads, enter the serial number or press and hold ⏻ and **BYP** for three seconds.

Worksheet 24: Wireless Keypad Assignment

Section	Description	Wireless Keypad Serial Number
[571]	Keypad 1	___/___/___/___/___/___
[572]	Keypad 2	___/___/___/___/___/___
[573]	Keypad 3	___/___/___/___/___/___
[574]	Keypad 4	___/___/___/___/___/___
[575]	Keypad 5	___/___/___/___/___/___
[576]	Keypad 6	___/___/___/___/___/___
[577]	Keypad 7	___/___/___/___/___/___
[578]	Keypad 8	___/___/___/___/___/___

Wireless Keypad, Repeater, and Siren Options

Table 19: Description of section [587]

Option	Description	[587]	
		OFF	ON
1	Repeater 1 supervision	☐	▲
2	Repeater 2 supervision	☐	▲
3	Wireless siren 1 supervision	☐	▲
4	Wireless siren 2 supervision	☐	▲
5	Wireless siren 3 supervision	☐	▲
6	Wireless siren 4 supervision	☐	▲
8	Live display mode	☐	▲

▲= Default

NOTE: To cancel the wireless siren tamper supervision, see *Cancelling the Tamper Supervision for Wireless Sirens* on page 37.

Wireless Keypad Options

Table 20: Description of section [588]

Option	Description	[588]	
		OFF	ON
1	Keypad 1 supervision	☐	▲
2	Keypad 2 supervision	☐	▲
3	Keypad 3 supervision	☐	▲
4	Keypad 4 supervision	☐	▲
5	Keypad 5 supervision	☐	▲
6	Keypad 6 supervision	☐	▲
7	Keypad 7 supervision	☐	▲
8	Keypad 8 supervision	☐	▲

▲= Default

Wireless Keypad Signal Strength

The signal strength for wireless keypads is visible in sections **[591]** to **[598]**; these sections represent keypads 1 through 8, respectively. To view the signal strength, proceed as follows:

1. Enter the wireless keypad's respective section (e.g., for keypad 1, enter section **[591]**).
2. Press ◌ on the keypad. As shown in table 21, the number of beeps correspond to a preset signal strength range.

Table 21: Signal strength indicator for wireless keypads

Number of Beeps	*Signal Strength*	*Result*
3	8 to 10	Strong signal
2	5 to 7	Average signal
1	1 to 4	Weak signal (relocate)

NOTE: The visual representation of a keypad's signal strength is dependent on the type of keypad. For LED keypads, zones 1 through 10 will illuminate, depending on the signal strength. For instance, a signal strength of 8 will result in zones 1 through 8 to illuminate. For LCD keypads, a ten-level progress bar composed of arrows will appear, followed by the numeric value. For a signal strength of 8, eight arrows will appear, followed by the number 8.

Wireless Keypad Labels

Use worksheet 25 to record your settings for wireless keypad labels. To reset these labels, see *Description of Section [965]* on page 53.

Worksheet 25: Wireless Keypad Labels

Section	*Description*	*Wireless Keypad Label*
[599]	Keypad 1	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__
[600]	Keypad 2	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__
[601]	Keypad 3	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__
[602]	Keypad 4	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__
[603]	Keypad 5	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__
[604]	Keypad 6	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__
[605]	Keypad 7	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__
[606]	Keypad 8	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__

NOTE: For special characters and keypad letter assignments, see *Label Programming with LCD Keypads* on page 54.

Remote Control Programming

Use the following section to program remote controls for your MG/SP control panel.

Remote Control Button Assignment

Use worksheet 26 on page 35 to record your settings when assigning remote controls to your MG/SP control panel. See table 22 for details on button options for these remotes.

WARNING: Remote controls which are supported by MG/SP control panels are the following: REM1, REM2, RAC1, RAC2, REM3, and REM15.

Table 22: Button options for MG/SP remote controls (see *Decimal and Hexadecimal Programming* on page 4)

Option	*Description*
Sleep	Empty/button disabled
1	Regular/regular force arming
2	Stay/stay force arming
3	-
4	Sleep/sleep force arming
5	PGM activation (event group 22)*
6	PGM activation (event group 23)*
7	Activate window mode (StayD)

Option	*Description*
8	Panic 1
9	Panic 2
A	Panic 3
B	PGM activation (event group 8)*
C	PGM activation (event group 9)*
D	PGM activation (event group 10)*
E	PGM activation (event group 11)*
F	Paramedic alarm

* For descriptions on the event groups, see *Description of MG/SP Events* on page 21.

NOTE: The disarm button (🔓) cannot be modified.

Worksheet 26: Programming Remote Controls

		REM3 Remote Control							
		PGM 1 **9**	*PGM 2* **0**	*PGM 3* **x**	*PGM 4* ✓	*PGM 5* ●	*PGM 6* ●	*PGM 3 & 4* x + ✓	*PGM 5 & 6* ● + ●
	Default Data	B	C	D	E	5	6	Disabled	Disabled
RC #	*Section*								
All	**[610]**	_____	_____	_____	_____	_____	_____	_____	_____
1	**[611]**	_____	_____	_____	_____	_____	_____	_____	_____
2	**[612]**	_____	_____	_____	_____	_____	_____	_____	_____
3	**[613]**	_____	_____	_____	_____	_____	_____	_____	_____
4	**[614]**	_____	_____	_____	_____	_____	_____	_____	_____
5	**[615]**	_____	_____	_____	_____	_____	_____	_____	_____
6	**[616]**	_____	_____	_____	_____	_____	_____	_____	_____
7	**[617]**	_____	_____	_____	_____	_____	_____	_____	_____
8	**[618]**	_____	_____	_____	_____	_____	_____	_____	_____
9	**[619]**	_____	_____	_____	_____	_____	_____	_____	_____
10	**[620]**	_____	_____	_____	_____	_____	_____	_____	_____
11	**[621]**	_____	_____	_____	_____	_____	_____	_____	_____
12	**[622]**	_____	_____	_____	_____	_____	_____	_____	_____
13	**[623]**	_____	_____	_____	_____	_____	_____	_____	_____
14	**[624]**	_____	_____	_____	_____	_____	_____	_____	_____
15	**[625]**	_____	_____	_____	_____	_____	_____	_____	_____
16	**[626]**	_____	_____	_____	_____	_____	_____	_____	_____
17	**[627]**	_____	_____	_____	_____	_____	_____	_____	_____
18	**[628]**	_____	_____	_____	_____	_____	_____	_____	_____
19	**[629]**	_____	_____	_____	_____	_____	_____	_____	_____
20	**[630]**	_____	_____	_____	_____	_____	_____	_____	_____
21	**[631]**	_____	_____	_____	_____	_____	_____	_____	_____
22	**[632]**	_____	_____	_____	_____	_____	_____	_____	_____
23	**[633]**	_____	_____	_____	_____	_____	_____	_____	_____
24	**[634]**	_____	_____	_____	_____	_____	_____	_____	_____
25	**[635]**	_____	_____	_____	_____	_____	_____	_____	_____
26	**[636]**	_____	_____	_____	_____	_____	_____	_____	_____
27	**[637]**	_____	_____	_____	_____	_____	_____	_____	_____
28	**[638]**	_____	_____	_____	_____	_____	_____	_____	_____
29	**[639]**	_____	_____	_____	_____	_____	_____	_____	_____
30	**[640]**	_____	_____	_____	_____	_____	_____	_____	_____
31	**[641]**	_____	_____	_____	_____	_____	_____	_____	_____
32	**[642]**	_____	_____	_____	_____	_____	_____	_____	_____

		REM1/REM2/RAC1/RAC2/REM15			
		🔒	⏻ ●	→ ●●	⏻ + → ● + ●●
	Default Data	1	B	C	Disabled
RC #	*Section*				
All	**[610]**	_____	_____	_____	_____
1	**[611]**	_____	_____	_____	_____
2	**[612]**	_____	_____	_____	_____
3	**[613]**	_____	_____	_____	_____
4	**[614]**	_____	_____	_____	_____
5	**[615]**	_____	_____	_____	_____
6	**[616]**	_____	_____	_____	_____
7	**[617]**	_____	_____	_____	_____
8	**[618]**	_____	_____	_____	_____
9	**[619]**	_____	_____	_____	_____
10	**[620]**	_____	_____	_____	_____
11	**[621]**	_____	_____	_____	_____
12	**[622]**	_____	_____	_____	_____
13	**[623]**	_____	_____	_____	_____
14	**[624]**	_____	_____	_____	_____
15	**[625]**	_____	_____	_____	_____
16	**[626]**	_____	_____	_____	_____
17	**[627]**	_____	_____	_____	_____
18	**[628]**	_____	_____	_____	_____
19	**[629]**	_____	_____	_____	_____
20	**[630]**	_____	_____	_____	_____
21	**[631]**	_____	_____	_____	_____
22	**[632]**	_____	_____	_____	_____
23	**[633]**	_____	_____	_____	_____
24	**[634]**	_____	_____	_____	_____
25	**[635]**	_____	_____	_____	_____
26	**[636]**	_____	_____	_____	_____
27	**[637]**	_____	_____	_____	_____
28	**[638]**	_____	_____	_____	_____
29	**[639]**	_____	_____	_____	_____
30	**[640]**	_____	_____	_____	_____
31	**[641]**	_____	_____	_____	_____
32	**[642]**	_____	_____	_____	_____

WARNING: When section [610] is accessed, the control panel will copy the saved value of that section to all remote controls.

NOTE: When using an RTX3 with the SP series, the left button on a remote control will, by default, trigger PGM3 onboard the RTX3.

User Assignment for Remote Controls

Table 23: User assignment per remote control

Section	Description	Section	Description	Section	Description	Section	Description
[651]	RC 1 for user 1	**[659]**	RC 9 for user 9	**[667]**	RC 17 for user 17	**[675]**	RC 25 for user 25
[652]	RC 2 for user 2	**[660]**	RC 10 for user 10	**[668]**	RC 18 for user 18	**[676]**	RC 26 for user 26
[653]	RC 3 for user 3	**[661]**	RC 11 for user 11	**[669]**	RC 19 for user 19	**[677]**	RC 27 for user 27
[654]	RC 4 for user 4	**[662]**	RC 12 for user 12	**[670]**	RC 20 for user 20	**[678]**	RC 28 for user 28
[655]	RC 5 for user 5	**[663]**	RC 13 for user 13	**[671]**	RC 21 for user 21	**[679]**	RC 29 for user 29
[656]	RC 6 for user 6	**[664]**	RC 14 for user 14	**[672]**	RC 22 for user 22	**[680]**	RC 30 for user 30
[657]	RC 7 for user 7	**[665]**	RC 15 for user 15	**[673]**	RC 23 for user 23	**[681]**	RC 31 for user 31
[658]	RC 8 for user 8	**[666]**	RC 16 for user 16	**[674]**	RC 24 for user 24	**[682]**	RC 32 for user 32

Assigning a Remote Control

1. Enter the remote's respective section (see table 23).
2. Press any button on the designated remote twice, or manually enter the serial number.

Deleting a Remote Control

1. Enter the remote's respective section (see table 23).
2. Enter **000000**.

NOTE: To view a remote control's serial number, see section **[960]** in *Description of Sections [950], [955], and [960]* on page 53.

Wireless Siren Programming

Use the following section to program wireless sirens for your MG/SP control panel.

Wireless Siren Assignment

Use worksheet 27 to record your settings when assigning wireless sirens.

Worksheet 27: Wireless Siren Assignment

Section	Description	Wireless Siren Serial Number	Section	Description	Wireless Siren Serial Number
[683]	Siren 1	___/___/___/___/___/___	**[685]**	Siren 3	___/___/___/___/___/___
[684]	Siren 2	___/___/___/___/___/___	**[686]**	Siren 4	___/___/___/___/___/___

Wireless Siren Signal Strength

The signal strength for wireless keypads is visible in sections **[687]** to **[690]**; these sections represent sirens 1 through 4, respectively. To view the signal strength:

1. Enter the wireless siren's respective section (e.g., for siren 1, enter section **[687]**).
2. Note the number of beeps which are emitted. As shown in table 21, the number of beeps correspond to a preset signal strength range.

Table 24: Signal strength indicator for wireless sirens

Number of Beeps	Signal Strength	Result
3	8 to 10	Strong signal
2	5 to 7	Average signal
1	1 to 4	Weak signal (relocate)

NOTE: The visual representation of a siren's signal strength is dependent on the type of keypad. For LED keypads, zones 1 through 10 will illuminate, depending on the signal strength. For instance, a signal strength of 8 will result in zones 1 through 8 to illuminate. For LCD keypads, a ten-level progress bar composed of arrows will appear, followed by the numeric value. For a signal strength of 8, eight arrows will appear, followed by the number 8.

Wireless Siren Labels

Use worksheet 28 to record your settings for wireless siren labels. To reset these labels, see *Description of Section [965]* on page 53.

Worksheet 28: Wireless Siren Labels

Section	Description	Wireless Siren Label	Section	Description	Wireless Siren Label
[691]	Siren 1	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__	**[693]**	Siren 3	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__
[692]	Siren 2	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__	**[694]**	Siren 4	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__

NOTE: For special characters and keypad letter assignments, see *Label Programming with LCD Keypads* on page 54.

Cancelling the Tamper Supervision for Wireless Sirens

To cancel tamper supervision, access section **[695]**, and then press **ENTER**. The tamper supervision is disabled until the cover is replaced or after 30 minutes have elapsed.

Description of Sections [700] to [704]

The following section provides information on sections **[700]** to **[704]**. See table 25 for details. For keypad programming instructions, refer to  on page 7.

Table 25: Description of sections [700] to [704]

	Option	Option Type	Description	OFF		ON	
Section [700]	1	Partitioning	Partitioning	▲	Disabled	□	Enabled
	2	General system options	Battery charging, 350 mA or 700 mA (not applicable to SP4000 and SP65)	▲	350 mA	□	700 mA
	3		Audible trouble warning (except AC failure)	▲	Disabled	□	Enabled
	4		Audible trouble warning on AC failure	▲	Disabled	□	Enabled
	5	RF jamming supervision	RF jamming supervision	□	Disabled	▲	Enabled
	6	General system options	Exit delay termination	▲	Disabled	□	Enabled
	7		Tamper supervision on the bus module	▲	Disabled	□	Enabled
	8	Future use	-	-	-	-	-
Section [702]	1	Panic options	Panic 1	▲	Disabled	□	Enabled
	2		Panic 2	▲	Disabled	□	Enabled
	3		Panic 3	▲	Disabled	□	Enabled
	4		Panic 1: report only or audible alarm	▲	Report only	□	Audible
	5		Panic 2: report only or audible alarm	▲	Report only	□	Audible
	6		Panic 3: report only or audible alarm	▲	Report only	□	Audible
	7	Future use	-	-	-	-	-
	8	Future use	-	-	-	-	-
Section [704]	1	Arming/disarming options	Regular arming switches to force arming	□	Disabled	▲	Enabled
	2		Stay arming switches to stay force arming	□	Disabled	▲	Enabled
	3		Sleep arming switches to sleep force arming	□	Disabled	▲	Enabled
	4		Bell squawk when arm/disarm with remote	▲	Disabled	□	Enabled
	5	Keypad options 3	Bell squawk when arm/disarm with a keypad	▲	Disabled	□	Enabled
	6		Beep on exit delay	□	Disabled	▲	Enabled
	7		No exit delay beeps and no bell squawk, when stay/sleep arm	□	Disabled	▲	Enabled
	8	Arming/disarming options	No exit delay when arm with remote	▲	Disabled	□	Enabled

	Option	Option Type	Description	OFF		ON	
Section [701]	1	Access/master code options	Access code length*	□	6 digits	▲	4 digits
	2		Lock master code	▲	Disabled	□	Enabled
	3	Keypad options 1**	Confidential mode	▲	Disabled	□	Enabled
	4		To exit confidential mode	▲	Enter code	□	Press a key
	5		Confidential mode timer	▲	2 mins.	□	5 secs.
	6	REM2 version number	REM2 version number	□	V2.00	▲	V2.01 or higher
	7	Keypad options 1	Display entry delay on LCD keypad	□	Disabled	▲	Enabled
	8		Display exit delay on LCD keypad	□	Disabled	▲	Enabled
Section [703]	1	Keypad options 2	One-touch regular arming (also REM3)	□	Disabled	▲	Enabled
	2		One-touch stay arming (also REM3)	□	Disabled	▲	Enabled
	3		One-touch sleep arming (also REM3)	□	Disabled	▲	Enabled
	4		One-touch bypass programming	□	Disabled	▲	Enabled
	5	Arming/disarming options	Restrict arming on battery failure	▲	Disabled	□	Enabled
	6		Restrict arming on tamper failure (zone + bus module + wireless PGM)	▲	Disabled	□	Enabled
	7		Restrict arming on supervision trouble; wireless zones & PGM + bus module	▲	Disabled	□	Enabled
	8	Arm/disarm with VDMP3	Arm/disarm with VDMP3	□	Disabled	▲	Enabled

▲= Default

*All numbers from 000000 to 999999 are valid giving a total o f 1,000,000 different possible combinations.

**Automatic timed operation that will make indications inaccessible to users without a valid access code.

Zone Options

Use the following section to program zone options for your MG/SP control panel.

ATZ Options

Table 26: Description of section [705]

	Option	Description	OFF		ON	
Section [705]	1	ATZ zone doubling	▲	Disabled	□	Enabled
	2	ATZ wiring options	▲	Series	□	Parallel
	3	Tamper recognition	(see table 27 for details)			
	4					
	5	Generate tamper on bypassed zone	□	No	▲	Yes
	6	Supervision options	(see table 27 for details)			
	7					
	8	Generate supervision on bypassed zone	□	No	▲	Yes

▲= Default

Table 27: Description of options 3 & 4 and 6 & 7, in section [705]

Option		Description	
3	4	RF Zone/Hardwired Zone Tamper Recognition Options	Keypad/Bus Module Tamper Recognition 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
6	7	RF Zone 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

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

General Zone Options

Table 28: Description of section [706]

	Option	Description	OFF		ON	
Section [706]	1	Check-in supervision time	▲	24 hours	□	80 minutes
	2	EOL resistors (applies to all hardwired zones – panel, keypad, ZX8)	▲	Disabled	□	Enabled
	3	Zone input 1 becomes a two-wire smoke input (except SP4000, SP5500, and SP65)	▲	Disabled	□	Enabled
	4	ZX8 ID A (panel + 1) input 1	▲	Zone input	□	Tamper input
	5	ZX8 ID B (panel + 9) input 1	▲	Zone input	□	Tamper input
	6	ZX8 ID C (panel + 17) input 1	▲	Zone input	□	Tamper input

▲= Default

Miscellaneous System Options

Table 29: Description of section [708]

	Option	Description	OFF		ON	
Section [708] EN50131 OPTIONS	1	Enter code to view trouble	▲	One-touch	□	Enter code
	2	Enter code to view alarm in memory/event list	▲	One-touch	□	Enter code
	3	Trouble latch	▲	Disabled	□	Enabled
	4	Bell squawk on Installer in	▲	Disabled	□	Enabled
	5	Acknowledge trouble(s) before arming	▲	Disabled	□	Enabled
	6	Do not arm if zone opens during exit delay	▲	Disabled	□	Enabled
	7	Disable 'Bypass and Arm'	▲	Disabled	□	Enabled
	8	Future use				

▲= Default

System Timers

Use the following section to program system timers on your MG/SP control panel. Use worksheet 29 to record your settings.

Worksheet 29: System Timers

Section	Data	Description
[710]	___/___/___ 000 to 255 seconds	Entry delay 1* (default: 045)
[711]	___/___/___ 000 to 255 seconds	Entry delay 2* (default: 045)
[712]	___/___/___ 000 to 015	Auto-zone shutdown counter (default: 005)
[713]	___/___/___ 000 to 255 seconds	Intellizone delay (default: 048)
[714]	___/___/___ 000 to 255 minutes	Recycle alarm delay (default: 000)
[715]	___/___/___ 000 to 255	Recycle alarm counter (default: 000)

Section	Data	Description
[718]	___/___/___ 000 to 255 seconds	Remote panic disarm lock delay (default: 000)
[719]	___/___/___ 000 to 255 days	Closing delinquency delay (default: 000)
[720]	___/___/___ 000 to 255 seconds	Flex-instant delay (default: 015)
[721]	___/___/___ 000 to 255 seconds	For StayD: re-arm delay (default: 005)
[722]	___/___/___ 000 to 255 times	Auto trouble shutdown** (default:000)
[723]	___/___/___ 000 to 255 seconds	Panic shutdown** (default:000)

* For EN 50131, the maximum value is 45 seconds.
** For EN 50131, the section must be set to a minimum of 3 and a maximum of 10

Keypad Lockout

Use the following section to program keypad lockout settings for your MG/SP control panel. Use worksheet 30 to record your settings.

Worksheet 30: Keypad Lockout

Section	Data		Description	Default
[716]	___/___/___	000 to 255 minutes	Keypad lockout delay	000
[717]	___/___/___	000 to 255 attempts before locking	Keypad lockout counter	000

NOTE: For EN 50131, the keypad lockout value must be set between three and ten attempts. The minimum delay to lock must be two minutes.

Programming the Daylight Savings Feature

Use the following section to program Daylight Savings Time on your MG/SP control panel. Use worksheet 31 to record your settings.

Table 30: Description of section [730]

Section	Option	Description	OFF		ON	
[730]	1	Daylight savings (not applicable to SP4000 and SP65)	▲	Disabled	□	Enabled

▲= Default

Country Codes

Table 31 lists countries and their respective codes. This information is required when programming section **[731]** (see worksheet 31 for details).

Table 31: Country codes for MG/SP control panels

Input Value	*Country*
00	Mexico; St. Johns; Bahamas; Turks and Caicos
01	Cuba
02	Brazil
03	Chile
04	Falkland Islands
05	Paraguay
06	European Union; United Kingdom; Greenland
07	Russia and surrounding countries
08	South Australia; Victoria; Australian Capital Territory; New South Wales
09	Tasmania; Lord Howe Island

Input Value	*Country*
10	Chatham
11	Tonga
12	Iraq; Syria
13	Israel
14	Lebanon; Kyrgyzstan
15	Palestine
16	Egypt
17	Namibia
18	Canada; United States
19	New Zealand

Customized Daylight Savings Features

In addition to using the default Daylight Saving Time (DST) settings in section **[731]**, you can also set a customized DST. In sections **[732]** and **[733]**, you can program DST starting and ending periods, respectively. Both these sections recognize five different entries, consisting of two digits each.
All entries must be made in the following order:

1. **Month**: 01 to 12, where *01* represents January
2. **Date**: 01 to 31, where *01* represents the first day of the month
3. **Day**: 00 to 07, where *00* is the default setting and *01* represents Sunday
4. **Hours**: 00 to 23, where *00* represents 12:00 AM
5. **Minutes**: 00 only, where *00* represents the top of the hour (e.g., 12:**00** AM)

NOTE: If the *Day* value is set to *00*, it is ignored and the DST change will only respect the *Date* value. If the *Day* setting is set to a value other than *00* (e.g., *03* for Tuesday), the DST time change will occur on the first Tuesday following the programmed *Date* value.

Worksheet 31: Daylight Savings Time

Section	*Data*		*Description*
[731]	___/___	00 to 99	Country code
[732]	__/__/__/__/__/__/__/__/__/__	Month-date-day-hours-minutes	DST staring period
[733]	__/__/__/__/__/__/__/__/__/__	Month-date-day-hours-minutes	DST ending period

NOTE: If sections **[732]** and **[733]** have been modified, but you want to revert to a standard DST code, change all settings in sections **[732]** and **[733]** to *00*.

Partition Programming

Use the following section to program partitions on your MG/SP control panel.

Partition Options

Table 32: Description of partition 1 options (section [741])

	Option	*Description*	*OFF*		*ON*	
Section **[741]**	1	Auto-arm on time	▲	Disabled	□	Enabled
	2	Auto-arm on no movement	▲	Disabled	□	Enabled
	3 & 4	Auto-arm arming mode	□	See options 3 & 4, on right	□	See options 3 & 4, on right
	5	Switch to stay arming, if no entry zone is opened	▲	Disabled	□	Enabled
	6	Follow zones become entry delay 2, when delay zone is bypassed	▲	Disabled	□	Enabled

▲= Default

Option		*Description*
3	4	
OFF	**OFF**	Regular (default)
OFF	ON	Sleep
ON	OFF	Stay

Table 33: Description of partition 2 options (section [742])

	Option	Description	OFF		ON	
Section [742]	1	Auto-arm on time	▲	Disabled	□	Enabled
	2	Auto-arm on no movement	▲	Disabled	□	Enabled
	3 & 4	Auto-arm arming mode	□	See options 3 & 4, on right	□	See options 3 & 4, on right
	5	Switch to stay arming, if no entry zone is opened	▲	Disabled	□	Enabled
	6	Follow zones become entry delay 2, when delay zone is bypassed	▲	Disabled	□	Enabled

Option		Description
3	4	
OFF	**OFF**	Regular (default)
OFF	ON	Sleep
ON	OFF	Stay

▲= Default

Partition Timers

Use worksheet 32 to record your settings for partition timers.

Worksheet 32: Partition Timers

Section	Data	Description	Default
[745]	___/___/___	000 to 255 seconds	Partition 1 exit delay	060
[746]	___/___/___	000 to 255 seconds	Partition 2 exit delay	060
[747]	___/___/___	000 to 255 minutes	Partition 1 bell cut-off	004*
[748]	___/___/___	000 to 255 minutes	Partition 2 bell cut-off	004*
[749]	___/___/___	000 to 255 x 15 minutes	Partition 1 no movement	000
[750]	___/___/___	000 to 255 x 15 minutes	Partition 2 no movement	000
[761]	___/___ : ___/___	HH:MM	Auto-arm on time partition 1	00:00
[762]	___/___ : ___/___	HH:MM	Auto-arm on time partition 2	00:00

*For EN 50131, the minimum bell cut-off timer value should be 2 minutes and maximum 60 minutes.

Partition Labels

Use worksheet 33 to record your settings for partition labels. To reset these labels, see *Description of Section [965]* on page 53.

Worksheet 33: Partition Labels

Section	Description	Partition Label
[771]	Partition 1	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__
[772]	Partition 2	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__

NOTE: For special characters and keypad letter assignments, see *Label Programming with LCD Keypads* on page 54.

SMS and Bus Module Programming

Use the following section to program SMS site name and bus module labels on your MG/SP control panel.

SMS Site Name

Use worksheet 34 to record your SMS site name. See worksheet 52 on page 52, for additional communication settings.

Worksheet 34: SMS Site Name

Section	Description	Name
[780]	SMS site name	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__

Bus Module Labels

Use worksheet 35 to record your settings for bus module labels. To reset these labels, see *Description of Section [965]* on page 53.

Worksheet 35: Bus Module Labels

Section	Description	Bus Module Label
[781]	Bus 1	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__
[782]	Bus 2	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__
[783]	Bus 3	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__
[784]	Bus 4	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__
[785]	Bus 5	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__
[786]	Bus 6	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__
[787]	Bus 7	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__
[788]	Bus 8	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__

Section	Description	Bus Module Label
[789]	Bus 9	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__
[790]	Bus 10	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__
[791]	Bus 11	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__
[792]	Bus 12	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__
[793]	Bus 13	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__
[794]	Bus 14	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__
[795]	Bus 15	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__

NOTE: For special characters and keypad letter assignments, see *Label Programming with LCD Keypads* on page 54.

Communication Programming

Use the following section to program various communication features on your MG/SP control panel. Table 34 lists features available for each MG/SP control panel. Prioritization of signals and messages are based on a "first in, first out" scheme. Systems meet EN 50136 ATS2 or ATS3 requirements when configured as depicted.

NOTE: For increased security, it is suggested that redundant communication methods be installed.

Table 34: Communication features for MG/SP panels

Communication Feature	*Control Panel*						
	MG5000	MG5050	SP4000	SP5500	SP6000	SP65	SP7000
GPRS reporting (PCS series)	✔	✔	✔	✔	✔	✔	✔
GSM reporting and SMS (PCS series)	✔	✔	✔	✔	✔	✔	✔
IP reporting (IP100)	✔	✔	✔	✔	✔	✔	✔
E-mail/monitoring (IP100)	✔	✔	✔	✔	✔	✔	✔
Patented dialer	✔	✔	✔	✔	✔	-	✔
Supports VDMP3	✔	✔	✔	✔	✔	✔	✔

Dialer Options

Table 35: Description of dialer options for landline communication (section [800])

	Option	*Description*	*OFF*		*ON*	
Section **[800]**	1 & 2	Telephone line monitoring	☐	See options 1 & 2, on right	☐	See options 1 & 2, on right
	3	Switch to pulse on fifth attempt	▲	Disabled	☐	Enabled
	4	Alternate dial	▲	Disabled	☐	Enabled
	5	Force dial (must be enabled to comply with TBR-21)	☐	Disabled	▲	Enabled
	6	DTMF dialing	☐	Disabled	▲	Enabled
	7	Pulse ratio	☐	1:2	▲	1:1.5
	8	Reporting*	▲	Dialer activated	☐	No dialer

Option		*Description*
1	2	
OFF	**OFF**	Disabled (default)
OFF	ON	Trouble only
ON	OFF	When disarmed: trouble only; when armed: audible only
ON	ON	Silent alarms become audible alarm

▲= Default

* This option also applies to both landline and GSM communication (see *Landline and GSM Communication* on page 44).

Table 36: Description of general communication dialer options (section [801])

	Option	*Description*	*OFF*		*ON*	
Section **[801]**	1	Report system disarming	☐	Always	▲	After alarm
	2	Report zone restore	▲	Bell cutoff	☐	Zone closure
	3 & 4	Auto-test report transmission	☐	See table 37 on page 42	☐	See table 37 on page 42
	5	Contact ID override	▲	Disabled	☐	CID defaults/slow format custom
	6	Bell squawk upon alarm report confirmation (SP4000 and SP65 only)	☐	Disabled	▲	Enabled
	7	Bell squawk upon arming report confirmation (SP4000 and SP65 only)	▲	Disabled	☐	Enabled
	8	Keypad beeps upon arming report confirmation (SP4000 and SP65 only)	☐	Disabled	▲	Enabled

▲= Default

Table 37: Auto-test report transmission options (section [801])

	Option		*Description*
	3	4	
1	**OFF**	**OFF**	Transmit the test report code when the days programmed in section **[840]** have elapsed, at the time programmed in section **[850]** (default).
2	OFF	ON	When disarmed: transmit test report code when the time programmed in section **[852]** has elapsed. When armed: transmit test report code when the time programmed in section **[851]** has elapsed.
3	ON	OFF	The control panel will transmit the test report code every hour, on the minute value programmed in section **[850]** (the last two digits); the first two digits of section **[850]** will be ignored. For example, if *10:25* was programmed into section **[850]**, the test report code would be transmitted at the 25th minute of every hour, i.e., 11:25, 12:25, etc.

Table 37: Auto-test report transmission options (section [801])

4	ON	ON	The test report code will be transmitted when the conditions in entries 2 or 3 above (option 3 = OFF and option 4 = ON; option 3 = ON and option 4 = OFF), are met.

Event Call Direction Options

Table 38: Description of event call direction options (sections [802] to [804])

	Option	Description	OFF		ON	
Section [802] Event Call Direction Options 1	1	Call tel. #1/monitoring rcvr. #1 for arm/disarm report codes	□	Disabled	▲	Enabled
	2	Call tel. #2/monitoring rcvr. #2 for arm/disarm report codes	□	Disabled	▲	Enabled
	3	Call pager for arm/disarm report codes	▲	Disabled	□	Enabled
	5	Call tel. #1/monitoring rcvr. #1 for alarm/restore report codes	□	Disabled	▲	Enabled
	6	Call tel. #2/monitoring rcvr. #2 for alarm/restore report codes	□	Disabled	▲	Enabled
	7	Call pager for alarm/restore report codes	□	Disabled	▲	Enabled
Section [804] Event Call Direction Options 3	1	Call tel. #1/monitoring rcvr. #1 for special report codes	□	Disabled	▲	Enabled
	2	Call tel. #2/monitoring rcvr. #2 for special report codes	□	Disabled	▲	Enabled
	3	Call pager for special report codes	▲	Disabled	□	Enabled
	5	Call personal tel. # on zone alarm (burglary/fire)	□	Disabled	▲	Enabled
	6	Call personal tel. # on panic alarms	□	Disabled	▲	Enabled
	7	Call personal tel. # on paramedic alarms	□	Disabled	▲	Enabled
	8	Call personal tel. # on panel power trouble	▲	Disabled	□	Enabled

	Option	Description	OFF		ON	
Section [803] Event Call Direction Options 2	1	Call tel. #1/monitoring rcvr. #1 for tamper/restore report codes	□	Disabled	▲	Enabled
	2	Call tel. #2/monitoring rcvr. #2 for tamper/restore report codes	□	Disabled	▲	Enabled
	3	Call pager for tamper/restore report codes	▲	Disabled	□	Enabled
	5	Call tel. #1/monitoring rcvr. #1 for trouble/restore report codes	□	Disabled	▲	Enabled
	6	Call tel. #2/monitoring rcvr. #2 for trouble/restore report codes	□	Disabled	▲	Enabled
	7	Call pager for trouble/restore report codes	▲	Disabled	□	Enabled

▲= Default

GSM Options

Table 39: Description of GSM options (PCS series)

	Option	Description	OFF		ON	
Section [805]	1 & 2	GSM reporting	□	See options 1 & 2, on right	□	See options 1 & 2, on right
	3 & 4	Future use	-	-	-	-
	5 & 6	GSM no service trouble feedback	□	See options 5 & 6, on right	□	See options 5 & 6, on right
	7	Future use	-	-	-	-
	8	GSM RF jamming supervision	□	Disabled	▲	Enabled

Option		Primary	Backup
1	2		
OFF	**OFF**	Landline	Landline
OFF	ON	Landline	GSM
ON	OFF	GSM	Landline
ON	ON	GSM	GSM

Option		Description
5	6	
OFF	OFF	Disabled
OFF	**ON**	Trouble only
ON	OFF	When disarmed: trouble only; when armed: audible alarm
ON	ON	Silent alarm becomes audible alarm

▲= Default

IP/GPRS Options

Table 40: Description of IP/GPRS options (section [806])

	Option	Description	OFF		ON	
Section [806]	5 & 6	IP/GPRS no service trouble feedback	▲	See options 5 & 6	□	See options 5 & 6
	7	User dialer reporting	▲	As IP/GPRS reporting backup	□	Enabled
	8	Enable IP/GPRS reporting	□	Disabled	▲	Enabled
▲= Default						

Option		Description
5	6	
OFF	OFF	Disabled
OFF	**ON**	Trouble only
ON	OFF	When disarmed: trouble only; when armed: audible alarm
ON	ON	Silent alarm becomes audible alarm

Report Codes and Partition Accounts

Use worksheet 36 to record your settings for sections **[810]** to **[812]**.

Worksheet 36: Report Codes and Partition Accounts

Section	*Data*	*Description*
[810]	___/___	Tel. 1 & Tel. 2; Reporting format: 0 = Ademco Slow; 1 = Silent Knight; 2 = Sescoa; 3 = Ademco Express; **4 = Ademco Contact ID**; 5 = SIA (not supported with GPRS/IP reporting, as well as on SP65)
[811]	___/___/___/___	Partition 1 account number (landline/GSM communication only)
[812]	___/___/___/___	Partition 2 account number (landline/GSM communication only)

Landline and GSM Communication

Use worksheet 37 to record your settings for sections **[815]** to **[819]**. This worksheet applies to both landline and GSM communication.

Worksheet 37: Landline and GSM Communication Settings

Section	*Data*	*Description*
[815]	__/__	Monitoring station telephone number 1
[816]	__/__	Monitoring station telephone number 2
[817]	__/__	Backup telephone number
[818]	__/__	Pager telephone number
[819]	__/__	Numeric message sent with pager reporting

Table 41: Special keys for telephone numbers

Function	*Keypad Key*	*Function*	*Keypad Key*
*	**OFF**	Four-second pause	**TBL**
#	**BYP**	Delete current digit	**SLEEP**
Switch from pulse to tone dialing, or vice-versa	**MEM**	Insert a blank space	⏻

NOTE: To erase a phone number or numeric message, press sleep for each digit, in the respective section.

Timers

Use worksheet 38 to record your settings for sections **[820]** to **[840]**. For additional timers, see worksheets 40 and 49 on pages 45 and 51, respectively.

Worksheet 38: Communication Timers

Section		*Data*	*Description*	*Default*
[820]	___/___/___	000 to 255 hours	Fail to comm. clear event timer (does not apply to SP4000 and SP65)	000 = disabled
[830]	___/___/___	000 to 255 x 2 seconds	TLM fail delay (landline only)	016
[831]	___/___/___	000 to 032	Maximum dialing attempts monitoring station (landline and GSM only)	008
[832]	___/___/___	000 to 127 seconds	Delay between dialing attempts* (landline and GSM only)	020
[833]	___/___/___	000 to 255 seconds	Delay alarm transmission	000
[834]	___/___/___	000 to 127 seconds	Pager reporting delay	020
[835]	___/___/___	000 to 010	Pager reporting message repetition	003
[836]	___/___/___	000 to 127 seconds	Personal reporting delay*	005
[837]	___/___/___	000 to 010	Personal reporting message repetition*	003
[838]	___/___/___	000 to 255 seconds	Recent closing delay	000
[839]	___/___/___	000 to 255 minutes	Power failure report delay**	015
[840]	___/___/___	000 to 255 days	Auto test report (see table 37 on page 42)	000

* Also applicable when using a VDMP3 Plug-in Voice Dialer.

**For EN 50131, the maximum value for power failure delay is 60 minutes.

VDMP3 Options

Use worksheet 39 to record your setting for section **[841]**. For additional VDMP3 options, see worksheet 38.

Worksheet 39: VDMP3 Maximum Attempts

Section		*Data*	*Description*	*Default*
[841]	___/___/___	000 to 032	Maximum voice dialing attempts	008

Test Report and Report Delays

Use worksheet 40 to record your settings for sections **[850]** to **[852]**. For additional timers, see worksheets 38 and 49 on pages 44 and 51, respectively.

Worksheet 40: Test Report and Report Delays

Section		*Data*	*Description*	*Default*
[850]	___/___/___	HH:MM	Auto test report time of day (see table 37 on page 42)	00:00
[851]	___/___/___	000 to 255 minutes	Armed report delay	005
[852]	___/___/___	000 to 255 minutes	Disarmed report delay	060

GSM Settings

Use worksheet 41 to record your settings for sections **[855]** to **[856]**. See table 42 on page 45 for applicable SMS language codes.

Worksheet 41: GSM Settings (PCS series)

Section		*Data*	*Description*	*Default*
[855]	___/___/___	000 to 255 x 2 seconds	GSM no service timer	016
[856]	___/___/___	000 to 255	SMS language (see table 42 for SMS language codes)	000

Table 42: SMS language codes for GSM settings

Input Value	*SMS Language*
000	English
001	French
002	Spanish
003	Italian
004	Swedish

Input Value	*SMS Language*
005	Polish
006	Portuguese
007	German
008	Turkish
009	Hungarian

Input Value	*SMS Language*
010	Czech
011	Dutch
012	Croatian
013	Greek
014	Hebrew

Input Value	*SMS Language*
015	Russian
016	Bulgarian
017	Romanian
018	Slovak
019	Chinese

Input Value	*SMS Language*
020	Serbian
021 to 255	Future use

System and Communication Report Codes

Use the following section to program system report codes, as well as additional communication report codes on your MG/SP control panel.

Entering Report Codes

- **For Ademco slow, Silent Knight, SESCOA, and Ademco express formats**, key-in the desired two-digit hex value from 00 to FF.
- **For Ademco Programmable Format**, enter the desired two-digit hex value, found in table 44 on page 47. Entering *FF* will set the report code to those outlined in table 45 on page 49.
- **For Ademco All Codes Format**, the control panel automatically generates report codes from the ones found in table 45 on page 49.

Special Arming and Disarming Report Codes

Use worksheet 42 to record your settings for special arming and disarming report codes.

Worksheet 42: Special Arming and Disarming Report Codes

Section	*Data*	*Description*
[860]	___/___	Auto-arming
	___/___	Late to close
	___/___	No movement
	___/___	Partial arming

Section	*Data*	*Description*
[861]	___/___	Quick arming
	___/___	Arming via PC
	___/___	Arming with keyswitch
	___/___	-

Section	*Data*	*Description*
[862]	___/___	Cancel auto-arm
	___/___	Disarming via PC
	___/___	Cancel alarm with user, or WinLoad/BabyWare
	___/___	Cancel paramedic

Default: FF

Special Alarm Report Codes

Use worksheet 43 to record your settings for special alarm report codes.

Worksheet 43: Special Alarm Report Codes

Section	*Data*	*Description*
[863]	___/___	Emergency panic
	___/___	Auxiliary panic
	___/___	Fire panic
	___/___	Recent closing

Section	*Data*	*Description*
[864]	___/___	Zone shutdown
	___/___	Duress
	___/___	Keypad lockout
	___/___	Paramedic alarm

Default: FF

System Trouble Report Codes

Use worksheet 44 to record your settings for system trouble report codes.

Worksheet 44: Special Trouble Report Codes

Section	Data	Description
[865]	___/___	-
	___/___	AC failure
	___/___	Battery failure
	___/___	Auxiliary supply
[868]	___/___	Module power fail
	___/___	Module low/no battery*
	___/___	Wireless zone low battery
	___/___	Wireless zone supervision lost

Section	Data	Description
[866]	___/___	Bell output overload
	___/___	Bell output disconnected
	___/___	Timer loss
	___/___	Fire loop trouble
[869]	___/___	Wireless module supervision lost
	___/___	Wireless module tamper
	___/___	Remote low battery
	___/___	-

Section	Data	Description
[867]	___/___	Fail to communicate
	___/___	RF jamming
	___/___	Module lost
	___/___	Module tamper

Default: FF

System Trouble Restore Codes

Use worksheet 45 to record your settings for system trouble restore codes.

Worksheet 45: System Trouble Restore Codes

Section	Data	Description
[870]	___/___	TLM
	___/___	AC failure
	___/___	Battery failure
	___/___	Auxiliary supply
[873]	___/___	Module power fail
	___/___	Module low/no battery*
	___/___	Wireless zone low battery
	___/___	Wireless zone supervision lost

Section	Data	Description
[871]	___/___	Bell output overload
	___/___	Bell output disconnect
	___/___	Timer loss
	___/___	Fire loop trouble
[874]	___/___	Wireless module supervision lost*
	___/___	Wireless module tamper
	___/___	Remote low battery
	___/___	-

Section	Data	Description
[872]	___/___	Fail to communicate
	___/___	RF jamming
	___/___	Module lost
	___/___	Module tamper

Default: FF

System Special Report Codes

Use worksheet 46 to record your settings for system special report codes.

Worksheet 46: System Special Report Codes

Section	Data	Description
[875]	___/___	Cold start
	___/___	Test report
	___/___	-
	___/___	Software out

Section	Data	Description
[876]	___/___	Installer in
	___/___	Installer out
	___/___	Closing delinquency
	___/___	-

Section	Data	Description
[877]	___/___	-
	___/___	-
	___/___	-
	___/___	Fail to arm

Default: FF

NOTE: For report code formatting instructions, see *Entering Report Codes* on page 45.

Installer Function Keys

Table 43: Description of installer functions for MG/SP keypads

Function	Action	Description
Test report	**ENTER** + installer code + **ENTER**	Sends the *Test Report* report code programmed in section **[875]**, to the monitoring station.
Cancel communication	**ENTER** + installer code + **STAY**	Cancels all communication with the WinLoad/BabyWare software or with the monitoring station, until the next reportable event.
Answer WinLoad/ BabyWare software	**ENTER** + installer code + **SLEEP**	Will force the console to answer an incoming call from the monitoring station, which is using the WinLoad/BabyWare software.
Call WinLoad/ BabyWare software	**ENTER** + installer code + **BYP**	Will dial the PC telephone number programmed in section **[915]**, thereby initiating communication with a computer using the WinLoad software.
Installer test mode	**ENTER** + installer code + **TBL**	This mode allows to perform walk tests, where the siren will squawk to indicate opened zones. To exit, press **TBL**.

Contact ID Report Codes

Table 44: Ademco contact ID report codes

Type	CID #	Reporting Code	Value
Medical Alarms (100)	100	Medical alarm	01
	101	Pendant transmitter	02
	102	Fail to report in	03
Fire Alarms (110)	110	Fire Alarm	04
	111	Smoke	05
	112	Combustion	06
	113	Water Flow	07
	114	Heat	08
	115	Pull Station	09
	116	Duct	0A
	117	Flame	0B
	118	Near Alarm	0C
Panic Alarms (120)	120	Panic alarm	0D
	121	Duress	0E
	122	Silent	0F
	123	Audible	10
	124	Duress - access granted	11
	125	Duress - egress granted	12
Burglar Alarms (130)	130	Burglary	13
	131	Perimeter	14
	132	Interior	15
	133	24-hour	16
	134	Entry/exit	17
	135	Day/night	18
	136	Outdoor	19
	137	Tamper	1A
	138	Near alarm	1B
	139	Intrusion verifier	1C
General Alarms (140)	140	General alarm	1D
	141	Polling loop open	1E
	142	Polling loop short	1F
	143	Extension module failure	20
	144	Sensor tamper	21
	145	Expansion module tamper	22
	146	Silent burglary	23
	147	Sensor supervision failure	24

Table 44: Ademco contact ID report codes (Continued)

Type	CID #	Reporting Code	Value
24-hour Non-burglary (150 & 160)	150	24-hour non-burglary	25
	151	Gas detected	26
	152	Refrigeration	27
	153	Loss of heat	28
	154	Water leakage	29
	155	Foil break	2A
	156	Day trouble	2B
	157	Low bottled gas level	2C
	158	High temperature	2D
	159	Low temperature	2E
	161	Loss of air flow	2F
	162	Carbon monoxide detected	30
	163	Tank level	31
Fire Supervisory (200 & 210)	200	Fire supervisory	32
	201	Low water pressure	33
	202	Low CO2	34
	203	Gate valve sensor	35
	204	Low water level	36
	205	Pump activated	37
	206	Pump failure	38
System Troubles (300 & 310)	300	System trouble	39
	301	AC loss	3A
	302	Low system battery	3B
	303	RAM checksum bad	3C
	304	ROM checksum	3D
	305	System reset	3E
	306	Panel program changed	3F
	307	Self-test failure	40
	308	System shutdown	41
	309	Battery test failure	42
	310	Ground fault	43
	311	Battery missing/dead	44
	312	Powr. supply over current limit	45
	313	Engineer reset	46
Sounder/Relay Troubles (320)	320	Sounder relay	47
	321	Bell 1	48
	322	Bell 2	49
	323	Alarm relay	4A
	324	Trouble relay	4B
	325	Reversing relay	4C
	326	Notification appliance chk. #3	4D
	327	Notification appliance chk. #4	4E

Table 44: Ademco contact ID report codes (Continued)

Type	CID #	Reporting Code	Value
System Peripheral Troubles (330 & 340)	330	System peripheral	4F
	331	Polling loop open	50
	332	Polling loop short	51
	333	Expansion module failure	52
	334	Repeater failure	53
	335	Local printer paper out	54
	336	Local printer failure	55
	337	Exp. module DC loss	56
	338	Exp. module low battery	57
	339	Exp. module reset	58
	341	Exp. module tamper	59
	342	Exp. module AC loss	5A
	343	Exp. module self-test fail	5B
	344	RF receiver jam detected	5C
Communication Troubles (350 & 360)	350	Communication	5D
	351	Telco fault 1	5E
	352	Telco fault 2	5F
	353	Long range radio	60
	354	Fail to communicate	61
	355	Loss of radio supervision	62
	356	Loss of central polling	63
	357	Long range radio VSWR problem	64
Protection Loop Troubles (370)	370	Protection loop	65
	371	Protection loop open	66
	372	Protection loop short	67
	373	Fire trouble	68
	374	Exit error alarm	69
	375	Panic zone trouble	6A
	376	Hold-up zone trouble	6B
	377	Swinger trouble	6C
	378	Cross-zone trouble	6D
Sensor Troubles (380 & 390)	380	Sensor trouble	6E
	381	Loss of supervision - RF	6F
	382	Loss of supervision - RPM	70
	383	Sensor tamper	71
	384	RF transmitter low battery	72
	385	Smoke detector hi sensitivity	73
	386	Smoke detector low sensitivity	74
	387	Intrusion detector hi sensitivity	75
	388	Intrusion detector low sensitivity	76
	389	Sensor self-test failure	77
	391	Sensor watch trouble	78
	392	Drift compensation error	79
	393	Maintenance alert	7A

Table 44: Ademco contact ID report codes (Continued)

Type	CID #	Reporting Code	Value
Open/Close (400)	400	Open/close	7B
	401	Open/close by user	7C
	402	Group open/close	7D
	403	Automatic open/close	7E
	406	Cancel	7F
	407	Remote arm/disarm	80
	408	Quick arm	81
	409	Keyswitch open/close	82
Remote Access (410)	411	Call back request made	83
	412	Successful - download access	84
	413	Unsuccessful access	85
	414	System shutdown	86
	415	Dialer shutdown	87
	416	Successful upload	88
Access Control (420 & 430)	421	Access denied	89
	422	Access report by user	8A
	423	Forced access	8B
	424	Egress denied	8C
	425	Egress granted	8D
	426	Access door propped open	8E
	427	Access point door status monitor trouble	8F
	428	Access point request to exit	90
	429	Access program mode entry	91
	430	Access program mode exit	92
	431	Access threat level change	93
	432	Access relay/trigger fail	94
	433	Access RTE shunt	95
	434	Access DSM shunt	96
Arming (440 & 450)	441	Armed stay	97
	442	Keyswitch armed stay	98
	450	Exception open/close	99
	451	Early open/close	9A
	452	Late open/close	9B
	453	Failed to open	9C
	454	Failed to close	9D
	455	Auto-arm failed	9E
	456	Partial arm	9F
	457	User exit error	A0
	458	User on premises	A1
	459	Recent close	A2
System (460)	461	Wrong code entry	A3
	462	Legal code entry	A4
	463	Re-arm after alarm	A5
	464	Auto-arm time extended	A6
	465	Panic alarm reset	A7
	466	Service ON/OFF premises	A8

Table 44: Ademco contact ID report codes (Continued)

Type	CID #	Reporting Code	Value
Sounder Relay Disabled (520)	520	Sounder/relay disabled	A9
	521	Bell 1 disabled	AA
	522	Bell 2 disabled	AB
	523	Alarm relay disabled	AC
	524	Trouble relay disabled	AD
	525	Reversing relay disabled	AE
	526	Notification appliance chk. #3 disabled	AF
	527	Notification appliance chk. #4 disabled	B0
Modules (530)	531	Module added	B1
	532	Module removed	B2
Communication Disabled (550 & 560)	551	Dialer disabled	B3
	552	Radio transmitter disabled	B4
Bypasses (570)	570	Zone bypass	B5
	571	Fire bypass	B6
	572	24-hour zone bypass	B7
	573	Burglary bypass	B8
	574	Group bypass	B9
	575	Swinger bypass	BA
	576	Access zone shunt	BB
	577	Access point bypass	BC

Table 44: Ademco contact ID report codes (Continued)

Type	CID #	Reporting Code	Value
Test/Misc (600)	601	Manual trigger test	BD
	602	Periodic test report	BE
	603	Periodic RF transmission	BF
	604	Fire test	C0
	605	Status report to follow	C1
	606	Listen-in to follow	C2
	607	Walk test mode	C3
	608	Periodic test - system trouble present	C4
	609	Video transmitter active	C5
	611	Point test OK	C6
	612	Point not tested	C7
	613	Intrusion zone walk tested	C8
	614	Fire zone walk tested	C9
	615	Panic zone walk tested	CA
	616	Service request	CB
	621	Event log reset	CC
	622	Event log 50% full	CD
	623	Event log 90% full	CE
	624	Event log overflow	CF
	625	Time/date reset	D0
	626	Time/date inaccurate	D1
	627	Program mode entry	D2
	628	Program mode exit	D3
	629	32-hour event log marker	D4
	630	Schedule change	D5
	631	Exception schedule change	D6
	632	Access schedule change	D7
	654	System inactivity	D8

Automatic Report Codes

Table 45: List of automatic report codes

System Event	*Default Contact ID Report Code*		*Default SIA Report Code*	
Arming with user code (##)	3 4A1	Close by user	CL	Closing report
Auto arming	3 4A3	Automatic close	CA	Automatic closing
Late to close	3 452	Late to close	OT	Late to close
No movement	3 452	Late to close	NA	No activity
Partial arming	1 456	Group bypass	CG	Close area
Quick arming	3 4A8	Quick arm	CL	Closing report
Arm with PC software	3 4A7	Remote arm/disarm	CQ	Remote arming
Keyswitch arming	3 4A9	Keyswitch arming	CS	Keyswitch arming
Disarm with user code (##)	1 4A1	Open by user	OP	Opening report
Disarm after alarm with user code (##)	1 4A1	Open by user	OP	Opening report
Cancel alarm with user code (##)	1 4A6	Cancel by user	OR	Disarm from alarm
Auto arming cancellation	1 464	Deferred open/close	CE	Closing extend
Disarm with PC software	1 4A7	Remote arm/disarm	OQ	Remote disarming
Disarm after an alarm with PC software	1 4A7	Remote arm/disarm	OR	Disarm from alarm
Cancel alarm with PC software	1 4A6	Cancel by user	OR	Disarm from alarm
Cancel paramedic alarm	1 4A6	Cancel by user	MH	Medical alarm restore
Keyswitch disarm	1 4A9	Keyswitch disarm	OS	Keyswitch disarm
Keyswitch disarm after alarm	1 4A1	Keyswitch disarm after alarm	OS	Keyswitch disarm after alarm
Keyswitch cancel alarm	1 4A6	Keyswitch cancel alarm	OS	Keyswitch cancel alarm
Zone bypassed (##)	1 57A	Zone bypass	UB	Untyped zone bypass
Zone alarm (##)	1 13A	Burglary alarm	BA	Burglary alarm
Fire alarm (##)	1 11A	Fire alarm	FA	Fire alarm
Zone alarm restore (##)	3 13A	Burglary alarm restore	BH	Burglary alarm restore
Fire alarm restore (##)	3 11A	Fire alarm restore	FH	Fire alarm restore
24-hr gas alarm (##)	1 151	Gas detected	GA	Gas alarm
24-hr heat alarm (##)	1 153	Loss of heat	KA	Heat alarm
24-hr water alarm (##)	1 154	Water leakage	WA	Water alarm
24-hr freeze alarm (##)	1 152	Refrigeration	ZA	Freeze alarm
24-hr gas alarm restore (##)	3 151	Gas restore	GR	Gas alarm restore
24-hr heat alarm restore (##)	3 153	Heat restore	KR	Heat alarm restore
24-hr water alarm restore (##)	3 154	Water restore	WR	Water alarm restore
24-hr freeze alarm restore (##)	3 152	Freeze restore	ZR	Freeze alarm restore
24-hr hold-up alarm	1 12A	Panic alarm	PA	Panic alarm
24-hr hold-up alarm restore	3 12A	Panic alarm restore	PR	Panic restore
Panic 1: emergency	1 12A	Panic alarm	PA	Panic alarm
Panic 2: medical	1 1AA	Medical alarm	MA	Medical alarm
Panic 3: fire	1 115	Pull station	FA	Fire alarm
Recent closing	3 459	Open/close	CR	Recent closing
Global zone shutdown	1 575	Group bypass	CG	Close area
Duress alarm	1 121	Duress	HA	Hold-up alarm
Keypad lockout	1 421	Access denied	JA	User code tamper
Zone shutdown (##)	1 57A	Zone bypass	UB	Untyped zone bypass
Zone tampered (##)	1 144	Sensor tamper	TA	Tamper alarm
Zone tamper restore (##)	3 144	Sensor tamper restore	TR	Tamper restoral
TLM Trouble	1 351	Telco 1 fault	LT	Phone line trouble
AC failure	1 3A1	AC loss	AT	AC trouble
Battery failure	1 3A9	Battery test failure	YT	System battery trouble
Auxiliary supply trouble	1 3AA	System trouble	YP	Power supply trouble
Bell output current limit	1 321	Bell 1	YA	Bell fault

Table 45: List of automatic report codes (Continued)

System Event	*Default Contact ID Report Code*		*Default SIA Report Code*	
Bell absent	1 321	Bell 1	YA	Bell fault
Clock lost	1 626	Time/date inaccurate	JT	Time changed
Fire loop trouble	1 373	Fire trouble	FT	Fire trouble
Communication fail	1 354	Communication fail	YC	Fail to communicate
RF jamming	1 344	RF receiver jam detection	XQ	RF jamming
GSM/GPRS module RF interference	1 552	Radio transmitter disabled	YS	Communication trouble
GSM/GPRS network failure	1 552	Radio transmitter disabled	YS	Communication trouble
GSM/GPRS supervision lost	1 552	Radio transmitter disabled	YS	Communication trouble
GSM/GPRS fail to communicate	1 354	Communication fails	YC	Fail to communicate
IP network failure	1 552	Radio transmitter disabled	YS	Communication trouble
IP supervision lost	1 552	Radio transmitter disabled	YS	Communication trouble
IP fail to communicate	1 354	Communication fails	YC	Fail to communicate
TLM trouble restore	3 351	Telco 1 fault restore	LR	Phone line restoral
AC failure restore	3 3A1	AC loss restore	AR	AC restoral
Battery failure restore	3 3A9	Battery test restore	YR	System battery restoral
Auxiliary supply trouble restore	3 3AA	System trouble restore	YQ	Power supply restored
Bell output current limit restore	3 321	Bell 1 restore	YH	Bell restored
Bell absent restore	3 321	Bell 1 restore	YH	Bell restored
Clock programmed	3 625	Time/date reset	JT	Time changed
Fire loop trouble restore	3 373	Fire trouble restore	FJ	Fire trouble restore
Fail to communicate with monitoring station restore	3 354	Fail to communicate restore	YK	Communication fails restore
RF jamming restore	3 344	RF receiver jam detection restore	XH	RF jamming restoral
GSM/GPRS module RF interference restore	3 552	Radio transmitter restore	YK	Communication restore
GSM/GPRS network restore	3 552	Radio transmitter restore	YK	Communication restore
GSM/GPRS supervision restore	3 552	Radio transmitter restore	YK	Communication restore
GSM/GPRS fail to communicate restore	3 354	Communication restore	YK	Fail to communicate restore
IP network restore	3 552	Radio transmitter restore	YK	Communication restore
IP supervision restore	3 552	Radio transmitter restore	YK	Communication restore
IP fail to communicate restore	3 354	Communication restore	YK	Fail to communicate restore
Combus fault	1 333	Expansion module failure	ET	Expansion trouble
Module tamper	1 341	Expansion module tamper	TA	Tamper alarm
Module AC fail	1 342	AC failure on module	AT	Module AC fail
Module battery fail	1 338	Battery failure on module	YT	Module battery fail
Bus fault restore	3 333	Expansion module failure restore	ER	Expansion restoral
Module tamper restore	3 341	Expansion module tamper restore	TR	Tamper restoral
Module AC fail restore	3 342	AC restored on module	AR	Module AC fail restore
Module battery fail restore	3 338	Battery failure on module	YR	Module battery fail restore
Cold start	1 3A8	System shutdown	RR	Power up
Test report engaged	1 6A2	Periodic test report	TX	Test report
PC software communication finished	1 412	Successful - download access	RS	Remote program success
Installer on site	1 627	Program mode entry	LB	Local program
Installer programming finished	1 628	Program mode exit	LS	Local program success
Maintenance in	1 627	Program mode entry	LB	Local program
Maintenance out	1 628	Program mode exit	LS	Local program success
Closing delinquency	1 654	System inactivity	CD	System inactivity
Manual trigger test in	1 6A1	Manual trigger test in	TS	Manual trigger test in
Manual trigger test out	3 6A1	Manual trigger test out	TS	Manual trigger test out
Exit error	1 374	Exit error	EE	Exit error
RF module low battery	1 384	RF transmitter low battery	XT	Transmitter battery trouble
RF module battery restore	3 384	RF transmitter battery restore	XR	Transmitter battery restoral

Table 45: List of automatic report codes (Continued)

System Event	Default Contact ID Report Code		Default SIA Report Code	
RF zone supervision lost	1 381	Loss of supervision - RF	US	Untype zone supervision
RF zone supervision restore	3 381	Supervision restore - RF	UR	Untyped zone restoral
RF module supervision lost	1 381	Loss of supervision - RF	US	Untyped zone supervision
RF module supervision restore	3 381	Loss of supervision - RF restore	UR	Untyped zone restoral
RF module tamper	1 145	Expansion module tamper	ES	Expansion device tamper
RF module tamper restore	3 145	Expansion module tamper restore	EJ	Expansion device restore
Paramedic alarm	1 1AA	Medical	MA	Medical alarm
Zone forced	1 57A	Zone forced	XW	Zone forced
Zone included	3 57A	Zone included	UU	Zone included
Remote low battery	1 338	Battery failure on module	YT	Module battery fail
Remote low battery restore	3 338	Battery failure on module restore	YR	Module battery fail restore
Failed to arm	1 454	Failed to close	CI	Failed to close

Communication Report Codes

Use worksheet 47 to record your settings for communication report codes. Sections **[879]** and **[884]** apply to both GSM and network (GPRS/GSM) communications. See *Communication Programming* on page 42, for more communication features. In addition, refer to *Description of Sections [966] and [967]* on page 54, for clearing and resetting codes.

Worksheet 47: Communication Report Codes

Section	Data	Description
[879]	___/___	PCS series RF jam
	___/___	PCS series no service
	___/___	PCS series module supervision lost
	___/___	Receiver fail to communicate (GPRS)

Section	Data	Description
[880]	___/___	-
	___/___	IP100 no service
	___/___	IP100 supervision lost
	___/___	IP receiver fail to communicate

Section	Data	Description
[884]	___/___	GSM lost communication with panel
	___/___	-
	___/___	-
	___/___	-

Communication Restore Report Codes

Use worksheet 48 to record your settings for communication restore report codes. Section **[881]** applies to both GSM and network (GPRS/GSM) communications.

Worksheet 48: Communication Restore Report Codes

Section	Data	Description
[881]	___/___	PCS series RF jam
	___/___	PCS series no service
	___/___	PCS series module supervision lost
	___/___	Receiver fail to communicate (GPRS)

Section	Data	Description
[882]	___/___	-
	___/___	IP100 no service
	___/___	IP100 supervision lost
	___/___	IP receiver fail to communicate

Software Options and Additional Timers

Use the following section to program software options and additional communication timers on your MG/SP control panel.

Table 46: Description of section [900] (WinLoad/BabyWare options)

Section	Option	Description	OFF		ON	
[900]	1	Call back	▲	Disabled	□	Enabled
	2	Automatic event buffer transmission	▲	Disabled	□	Enabled

▲= Default

Additional Communication Timers

Use worksheet 49 to record your settings for sections **[901]** and **[902]**. For additional timers, see worksheets 38 and 40. Sections **[901]** and **[902]** are also applicable when using a VDMP3 Plug-in Voice Dialer.

Worksheet 49: Additional Communication Timers

Section	Data		Description	Default
[901]	___/___/___	000 to 255 rings	Number of rings	008
[902]	___/___/___	000 to 255 secs. (max 127)	Answering machine override delay	030

WinLoad/BabyWare Options

Use worksheet 50 to record your settings for WinLoad and BabyWare options.

Worksheet 50: WinLoad/BabyWare Options

Section	Data	Description
[910]	___/___/___/___	Panel ID
[911]	___/___/___/___	PC password
[915]	__/__	PC telephone number (landline/GSM communication only)

WARNING: For increased communication security, change the default panel ID and PC password.

IP and Software Configurations

Use the following section to configure IP and software requirements on your MG/SP control panel.

IP Account Numbers

Use worksheet 51 to record the IP account numbers for network communication.

Worksheet 51: IP Account Numbers

Section	Data	Description
[918]	___/___/___/___	IP account partition 1
[919]	___/___/___/___	IP account partition 2

Software and PCS Connection Settings

Use worksheet 52 to record connection settings for WinLoad, BabyWare, and PCS series.

Worksheet 52: Software and PCS Connection Settings

Section	Data	Description	Default
[920]	__/__/__/__/__	Port	10000
[921]	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__	Access point name (APN), part 1 (e.g., *internet.com*)	-
[922]	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__	Access point name (APN), part 2	-
[923]	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__	User name, part 1	-
[924]	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__	User name, part 2	-
[925]	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__	Password, part 1	-
[926]	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__	Password, part 2	-
[927]	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__	Installer software password (WinLoad, BabyWare)	admin

IP Receiver Configurations

Use worksheets 53 to 55 (on page 53) to configure IP receivers. Table 47 provides a description of the IP/GPRS registration status.

Table 47: IP/GPRS registration status

Key	Main Menu Trouble	Key	Sub-menu Trouble
1	IP/GPRS module registration status	1	OFF = Unregistered
		1	Slow flash = Registering
		1	ON = Registration OK
2	IP/GPRS module error	7	No IP/GPRS module
		8	Ethernet cable unplugged; GSM no service
		9	No IP address acquired by module/GPRS network trouble
3	IP/GPRS programming error	7	No IP address (not programmed)
		8	No IP port (not programmed)
		9	No IP account (not programmed)
		10	No access point name (not programmed; GPRS only)
4	IP/GPRS registration error	7	Cannot connect
		8	Invalid profile
		9	Invalid format
		10	Account already registered under another MAC address
Register module		-	When all troubles are cleared, press **ARM** to register module

Worksheet 53: IP Receiver 1 Configuration

Section	Data	Description	Default
[929]	__/__/__ . __/__/__ . __/__/__ . __/__/__	WAN1 IP address (e.g., *100.100.100.100*); for one or two-digit numbers, add *0*s before the first digit	-
[930]	__/__/__/__/__	WAN1 IP port	10000
[931]	__/__/__ . __/__/__ . __/__/__ . __/__/__	WAN2 IP address	-
[932]	__/__/__/__/__	WAN2 IP port	-
[933]	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__	IP password	123456
[934]	__/__	IP profile (e.g., *01*)	-
[935]	To view status or to register, press **ARM** (see table 47 on page 52)	IP receiver status	-

Worksheet 54: IP Receiver 2 Configuration

Section	Data	Description	Default
[936]	__/__/__ . __/__/__ . __/__/__ . __/__/__	WAN1 IP address (e.g., *100.100.100.100*)	-
[937]	__/__/__/__/__	WAN1 IP port	10000
[938]	__/__/__ . __/__/__ . __/__/__ . __/__/__	WAN2 IP address	-
[939]	__/__/__/__/__	WAN2 IP port	-
[940]	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__	IP password	123456
[941]	__/__	IP profile (e.g., *01*)	-
[942]	To view status or to register, press **ARM** (see table 47 on page 52)	IP receiver status	-

Worksheet 55: IP Receiver Backup Configuration

Section	Data	Description	Default
[943]	__/__/__ . __/__/__ . __/__/__ . __/__/__	WAN1 IP address (e.g., *100.100.100.100*)	-
[944]	__/__/__/__/__	WAN1 IP port	10000
[945]	__/__/__ . __/__/__ . __/__/__ . __/__/__	WAN2 IP address	-
[946]	__/__/__/__/__	WAN2 IP port	-
[947]	__/__/__/__/__/__/__/__/__/__/__/__/__/__/__/__	IP password	123456
[948]	__/__	IP profile (e.g., *01*)	-
[949]	To view status or to register, press **ARM** (see table 47 on page 52)	IP receiver status	-

Usability Sections

The sections described in the ensuing segment are used to clear, reset, and display various settings and features on your MG/SP control panel.

Description of Sections [950], [955], and [960]

Table 48: Description of sections [950], [955], and [960]

Section	Description
[950]	Resets all programmable sections to their respective factory-set, default values. Once accessed, press **ENTER** to reset.
[951]	Sets panel for EN 50131 compliancy. To set the panel, enter section **[951]** and press **ENTER**.
[955]	Clears bus module troubles. Once cleared, remove disconnected module from the bus.
[960]	Displays the wireless transmitter serial number. Once accessed, press any button on the assigned remote control, or press the tamper switch of the download memory key. Press **ENTER** to view the next digit.

Description of Section [965]

Table 49: Description of section [965] (reset labels)

	Option	Description	OFF		ON	
Section **[965]**	1	Reset zone labels	☐	Disabled	▲	Enabled
	2	Reset user labels	☐	Disabled	▲	Enabled
	3	Reset partition labels	☐	Disabled	▲	Enabled
	4	Reset PGM labels	☐	Disabled	▲	Enabled
	5	Reset bus module labels	☐	Disabled	▲	Enabled
	6	Reset wireless repeater and siren labels	☐	Disabled	▲	Enabled
	7	Reset wireless keypad, repeater, and siren labels	☐	Disabled	▲	Enabled

▲= Default

NOTE: When resetting any option in section **[965]**, ensure that all other options are deselected. Press **ENTER** to reset the respective set of labels to their default values, before exiting the section.

Description of Sections [966] and [967]

Table 50: Description of sections [966] and [967] (clear and reset report codes)

	Option	Description	OFF		ON	
Section **[966]**	1	Clear zone report codes	□	Disabled	▲	Enabled
	2	Clear user report codes	□	Disabled	▲	Enabled
	3	Clear arm/disarm/alarm report codes	□	Disabled	▲	Enabled
	4	Clear trouble report codes	□	Disabled	▲	Enabled
	5	Clear system special report codes	□	Disabled	▲	Enabled
	6	Clear report code for GSM lost communication with panel	□	Disabled	▲	Enabled

	Option	Description	OFF		ON	
Section **[967]**	1	Reset zone report codes to default	□	Disabled	▲	Enabled
	2	Reset user report codes to default	□	Disabled	▲	Enabled
	3	Reset arm/disarm/alarm report codes to default	□	Disabled	▲	Enabled
	4	Reset trouble report codes to default	□	Disabled	▲	Enabled
	5	Reset system special report codes to default	□	Disabled	▲	Enabled
	6	Reset report code for GSM lost communication with panel	□	Disabled	▲	Enabled

▲= Default

NOTE: When clearing or resetting any option in sections **[966] AND [967]**, ensure that all other options are deselected. Press **ENTER** to reset the respective set of labels to their default values, before exiting the section.

Description of Sections [970], [975], and [980]

Table 51: Description of sections [970], [975], and [980]

Section	Description
[970]	Downloads data from the memory key to the control panel. To download data, enter section **[970]**, and then press **ENTER**.
[975]	Uploads data from the control panel to the memory key. To upload data, enter section **[975]**, and then press **ENTER**.
[980]	Displays version number of the control panel. Once accessed, press **ENTER** to view the next digit.

Label Programming with LCD Keypads

Use the information in the following section to program system labels, using an LCD keypad (K32LCD/K32LX).

Function keys

Table 52: Description of the special function keys, used for programming labels on LCD keypads

Function	Keypad Key
Insert space	**STAY**
Delete	**SLEEP**
Delete entire entry	**ARM**
Toggle between numeric and alphanumeric keys	**OFF**
Toggle between lower and upper case keys	**BYP**
Insert special characters	**ENTER**

Catalogues of Special Characters

The following section outlines the different catalogues of special characters, including those in Hebrew, Greek, and Russian.

Figure 1: Standard special characters

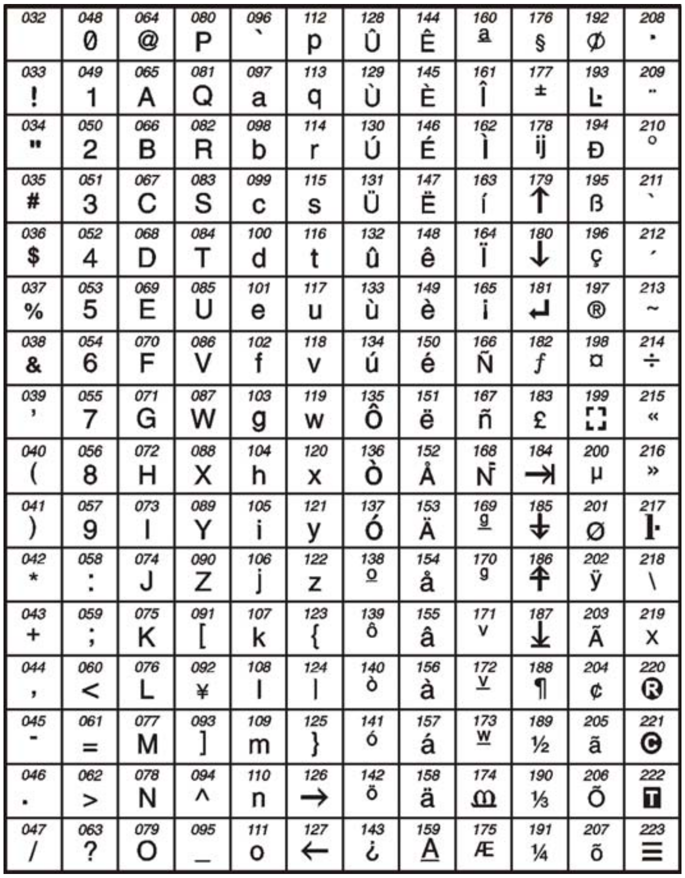


Figure 3: Russian special characters

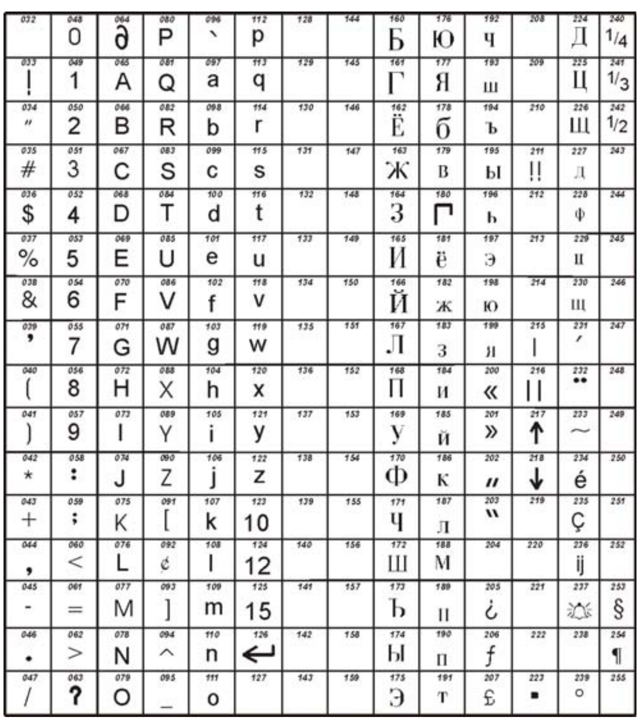


Figure 2: Hebrew special characters

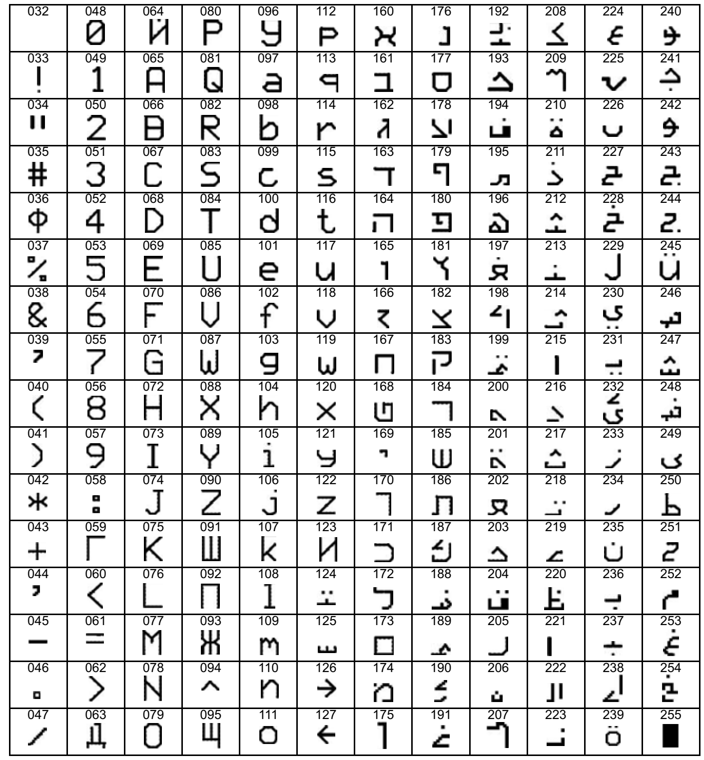


Figure 4: Greek special characters

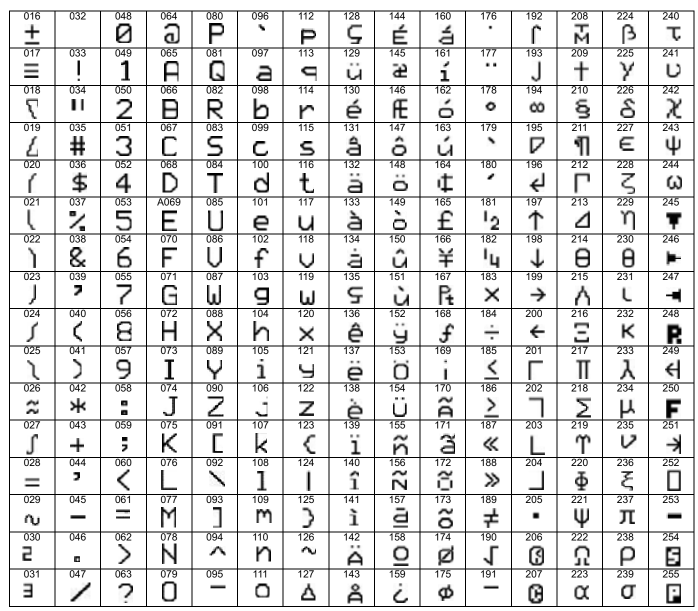


Figure 5: Polish, Hungarian, and Turkish special characters

Polish	001 Ż	002 Ć	003 ą	004 ę	005 Ź	006 ł	007 Ś
Hungarian	001 Á	002 ű	003 ő				
Turkish	001 ü						

Keypad Letter Assignments

The following section outlines the different configurations for keypad letter assignments, including those in Hebrew, Greek, and Russian.

Table 53: Standard keypad letter assignment

Key	*Press Key Once*	*Press Key Twice*	*Press Key Three Times*
1	A	B	C
2	D	E	F
3	G	H	I
4	J	K	L
5	M	N	O
6	P	Q	R
7	S	T	U
8	V	W	X
9	Y	Z	

Table 54: Greek keypad letter assignment

Key	*Press Key Once*	*Press Key Twice*	*Press Key Three Times*
1	Α	Β	Γ
2	Δ	Ε	Ζ
3	Η	Θ	Ι
4	Κ	Λ	Μ
5	Ν	Ξ	Ο
6	Π	Ρ	Σ
7	Τ	Υ	Φ
8	Χ	Ψ	Ω

Figure 6: Hebrew keypad letter assignment

Key	Press key once	Press key twice	Press key three times
[1]	א	ב	ג
[2]	ד	ה	ו
[3]	ז	ח	ט
[4]	י	ך	כ
[5]	ל	ם	מ
[6]	ן	נ	ס
[7]	ע	ף	פ
[8]	ץ	צ	ק
[9]	ר	ש	ת

Figure 7: Russian keypad letter assignment

Key	Press key once	Press key twice	Press key three times	Press key four times
[1]	А	Б	В	Г
[2]	Д	Е	Ё	Ж
[3]	З	И	Й	К
[4]	Л	М	Н	О
[5]	П	Р	С	Т
[6]	У	Ф	Х	Ц
[7]	Ч	Ш	Щ	Ъ
[8]	Ы	Ь	Э	Ю
[9]	Я			

Trouble Display

The following section provides information on the different troubles associated with your MG/SP control panel. To view the trouble display, press **TBL** on your MG/SP keypad. Table 55 outlines the troubles appearing in the main menu and their corresponding sub-menu troubles. To view the sub-menu troubles, press the trouble's respective key in the main menu.

NOTE: Keypads can be programmed to emit a beep every five seconds, whenever a new trouble condition has occurred. Press **TBL** to stop the beeping.

Table 55: Description of troubles for MG/SP control panels

Key	*Main Menu Trouble*	*Key*	*Sub-menu Trouble*
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
		8	Wireless siren AC failure
		9	Wireless siren battery failure
		10	Remote low battery (press **[0]** to view which remote)
3	Bell trouble	1	Bell disconnected on control panel
		2	Bell overload on control panel

Table 55: Description of troubles for MG/SP control panels

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
		5	Fail to communicate on voice telephone, on control panel
		6	Fail to communicate with PC, on control panel
		7	Fail to communicate with IP receiver 1 or 2 (GPRS)
		8	Fail to communicate with IP receiver 1 or 2 (IP)
		9	GSM no service (GSM network failure)
		10	IP module no service (network failure)
		STAY	GSM RF jamming
		OFF	IP receiver unregistered (IP/GPRS)
5	Tamper and zone wiring failure	1 to 32	Zones in tamper and zone wiring failure
6	Module tamper trouble	1	2WPGM
		2	Keypad bus
		3	ZX8 bus module
		4	RTX3 bus module
		5	Wireless siren
		6	GSM/GPRS module
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 jamming trouble
0 (10), or 10	Module supervision loss	1	2WPGM
		2	Keypad bus (panel reset will not clear this trouble; clear it in section **[955]**)
		3	ZX8 bus module
		4	RTX3 bus module
		5	Wireless keypad
		6	Wireless repeater
		7	-
		8	VDMP3
		9	PCS series
		10	IP100
		STAY	Wireless siren
16	Keypad fault (K32, K32RF, K37, K35 only)	-	
17	Upgrade panel to V3.2 or higher (K37 only)	-	
SLEEP	Keypad fault (K636, K10V/H only)	-	

Product Compatibility Chart

Table 56: Product compatibility chart for MG/SP control panels

Product Type	*Product*	MG5000	MG5050	SP4000	SP65	SP5500			SP6000			SP7000		
		V4.1 - V4.5	V4.1 - V4.5	V4.9	V4.9	V4.5	V4.7	V5.0	V4.5	V4.7	V5.0	V4.5	V4.7	V5.0
Hardwired Keypads	K32LCD (V1.30 or higher)	✔	✔	✔	✔	✔	✔	✔ [3]	✔	✔	✔ [3]	✔	✔	✔ [3]
	K32LX	-	-	✔	✔	-	✔	-	-	✔	-	-	✔	-
	K32	✔	✔	✔	✔	✔	✔	✔ [3]	✔	✔	✔ [3]	✔	✔	✔ [3]
	K10V/K10H	✔	✔	✔	✔	✔	✔	✔ [3]	✔	✔	✔ [3]	✔	✔	✔ [3]
	K35 (K32I)	✔	✔	✔	✔	✔	✔	✔ [3]	✔	✔	✔ [3]	✔	✔	✔ [3]
	K636	✔	✔	✔	✔	✔	✔	✔ [3]	✔	✔	✔ [3]	✔	✔	✔ [3]
Wireless Keypads	K37 (K32IRF)	✔	✔	-	✔ [2]	✔ [2]			✔ [2]			✔ [2]		
	K32RF (K32LRF)	✔	✔	-	✔ [2]	✔ [2]			✔ [2]			✔ [2]		
Zone Expansion Modules	ZX8	✔	✔	✔	✔	✔	✔	✔ [3]	✔	✔	✔ [3]	✔	✔	✔ [3]
	ZX8SP	✔	✔	✔	✔	✔	✔	✔ [3]	✔	✔	✔ [3]	✔	✔	✔ [3]
	RTX3	-	-	✔	✔	✔	✔	✔ [3]	✔	✔	✔ [3]	✔	✔	✔ [3]
	RX1	-	-	✔	✔	✔	✔	✔ [3]	✔	✔	✔ [3]	✔	✔	✔ [3]
Wireless Sirens	SR150 (V1.10)	✔	✔	-	✔ [2]	✔			✔			✔		
Wireless Programmable Output	2WPGM	✔	✔	-	✔ [2]	✔ [2]			✔ [2]			✔ [2]		
Remote Controls	REM1	✔	✔	✔ [1]	✔ [1]	✔ [1]			✔ [1]			✔ [1]		
	REM15	✔	✔	✔ [1]	✔ [1]	✔ [1]			✔ [1]			✔ [1]		
	REM2	✔	✔	✔ [2]	✔ [2]	✔ [2]			✔ [2]			✔ [2]		
	REM3	✔	✔	✔ [2]	✔ [2]	✔ [2]			✔ [2]			✔ [2]		
	RAC1	✔	✔	✔ [1]	✔ [1]	✔ [1]			✔ [1]			✔ [1]		
Wireless Repeaters	RPT1	✔	✔	-	✔ [2]	✔ [2]			✔ [2]			✔ [2]		
Reporting and Communication	PCS200 (V2.01 GSM/GPRS)	✔	✔	✔	✔	✔			✔			✔		
	PCS200 (V1.00 GSM edition)	✔	✔	✔	✔	✔			✔			✔		
	IP100 (V1.50 IP reporting)	✔	✔	✔	✔	✔			✔			✔		
	IP100 (V1.00)	✔	✔	✔	✔	✔			✔			✔		
	VDMP3	✔	✔	✔	✔	✔			✔			✔		
Peripheral Modules	HUB2	✔	✔	✔	✔	✔	✔	✔ [3]	✔	✔	✔ [3]	✔	✔	✔ [3]
	PGM4 (V3.00 and up)	✔	✔	✔	✔	✔	✔	✔ [3]	✔	✔	✔ [3]	✔	✔	✔ [3]
	PRT3	-	✔	✔	✔	-			-			-		
Programming Keys	PMC5	✔	✔	✔	✔	✔			✔			✔		
Software	WinLoad	✔	✔	-		✔			✔			✔		
	BabyWare	-	-	✔	✔	-			-			-		

[1] Requires RTX3/RX1

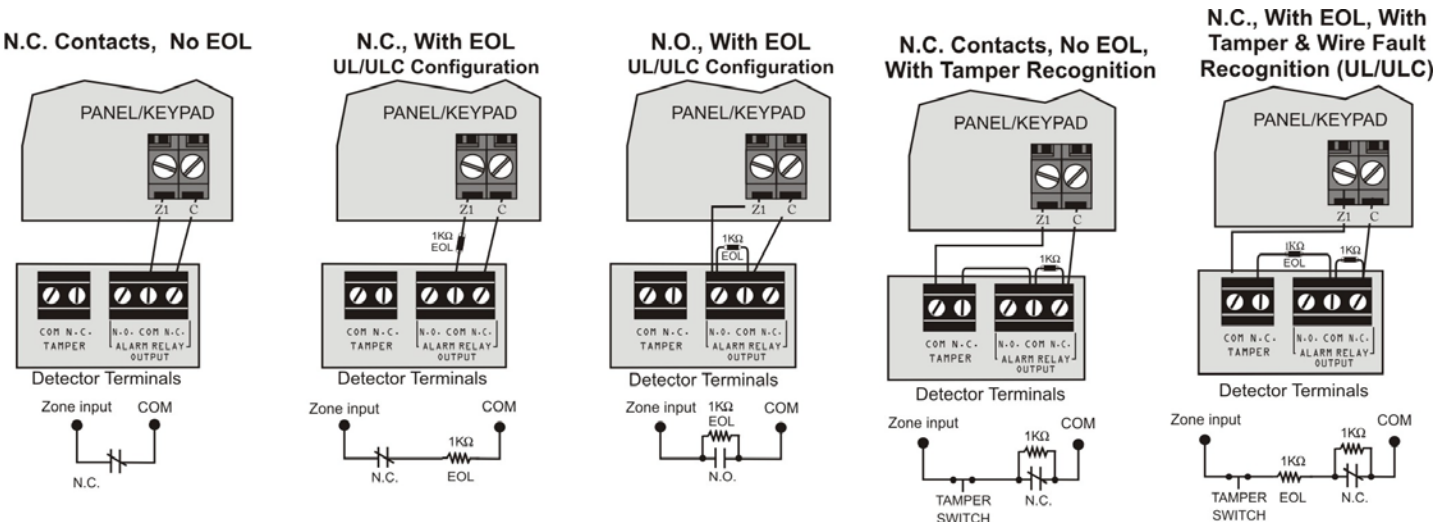
[2] Requires RTX3

[3] Requires modules V5.00 only

NOTE: For the most up-to-date and comprehensive MG/SP product compatibility chart, always refer to paradox.com.

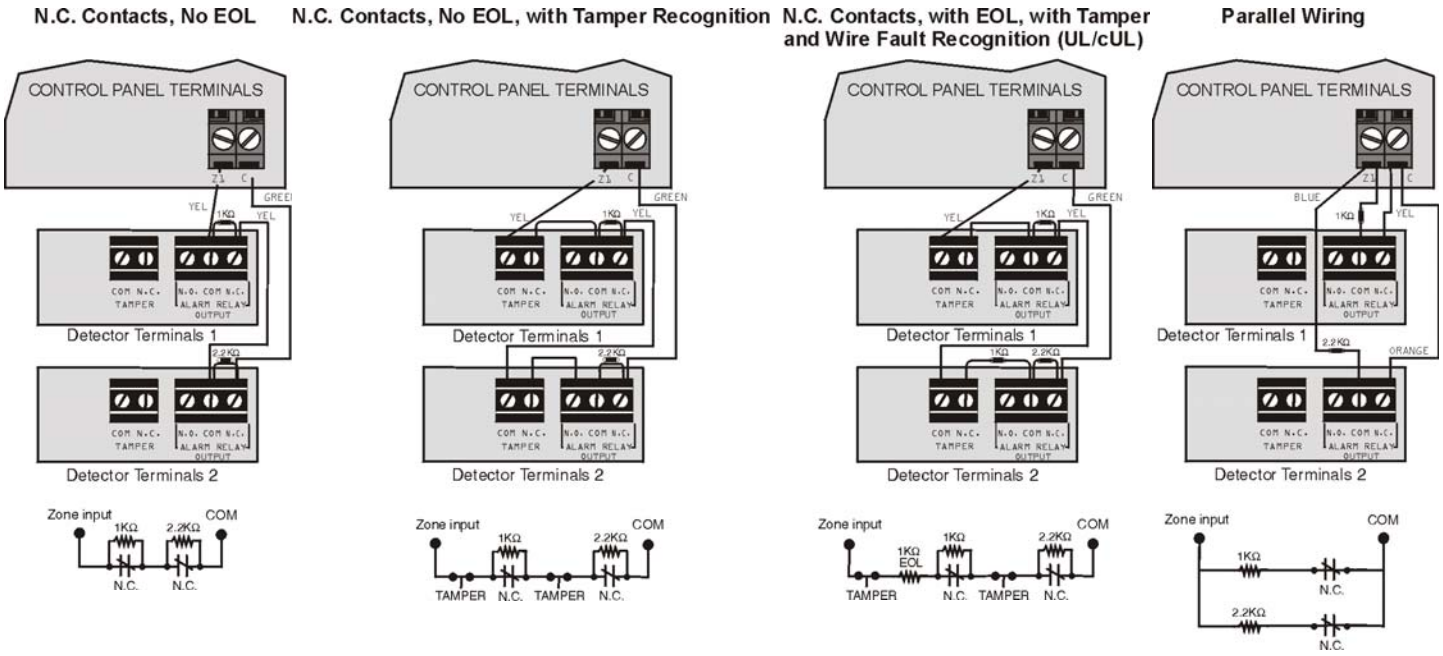
Hardware Connections

Single Zone Inputs



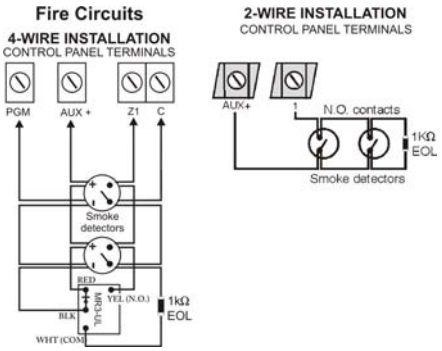
NOTE: Keyswitches are connected as standard zones and will follow ATZ options 1 and 2, programmed in section **[705]** (see page 37).

Advanced Technology Zone (ATZ) Connections



Connecting Fire Circuits

For 4-wire installation, program the activation event so that the smoke detectors can be reset by simultaneously pressing **CLEAR** and **ENTER** for three seconds (see event group 06 on page 21). For 2-wire installation, press **CLEAR** and **ENTER** simultaneously to automatically reset smoke detectors (not applicable to SP5500, SP4000, SP65).



WARNING: It is recommended that smoke detectors be connected in a daisy-chain configuration. Each control panel, except for the SP4000, SP5500, and SP65, supports a maximum of five 2-wire smoke detectors.

Alarm Relay and PGM Connections

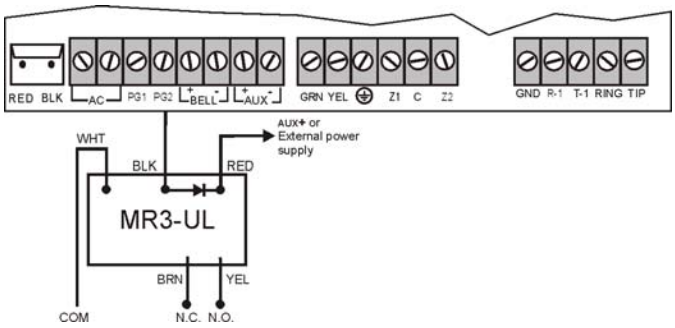
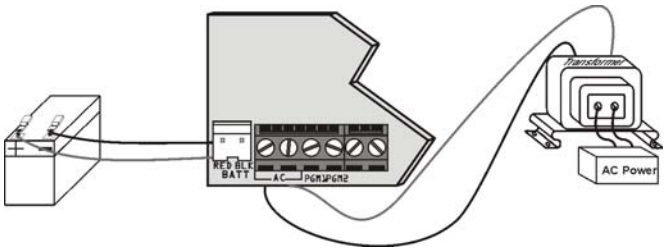


Table 57: PGM power sources

Power Source	*Description*
AUX + terminal	• MG5000/MG5050: max. 700 mA • SP5500/SP6000/SP7000: max. 700 mA • SP4000: max. 600 mA • SP65: max. 750 mA
External power supply	PGMs cannot exceed 100 mA or the power supply's current limit.

AC Power & Backup Battery Connections



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

WARNING: Improper connection of the transformer may result in damage to the system.

WARNING: Disconnect battery before replacing the fuse.

Table 58: Transformation requirements

Power Source	*Description*
Transformer	• 16 Vac 20 VA* (Amseco XP-1620) • 16.5 Vac 40 VA (Universal UB1640W) * not verified by UL
DC power supply rate	• MG5000/MG5050: 1.0A • SP5500/SP6000/SP7000: 1.4A • SP4000/SP65: 1.1A
Auxiliary supply rate	• MG5000/MG5050: typ. 600 mA / max. 700 mA • SP5500/SP6000/SP7000: typ. 600 mA / max. 700 mA • SP4000: typ. 450 mA / max. 600 mA • SP65: typ. 500 mA / max. 750 mA • UL installations: typ. 200 mA
Acceptable battery charge current (see section **[700]**, option 2, on page 36)	• MG5000/MG5050: 350 mA / 700 mA • SP5500/SP6000/SP7000: 350 mA / 700 mA • SP4000/SP65: 1.1A

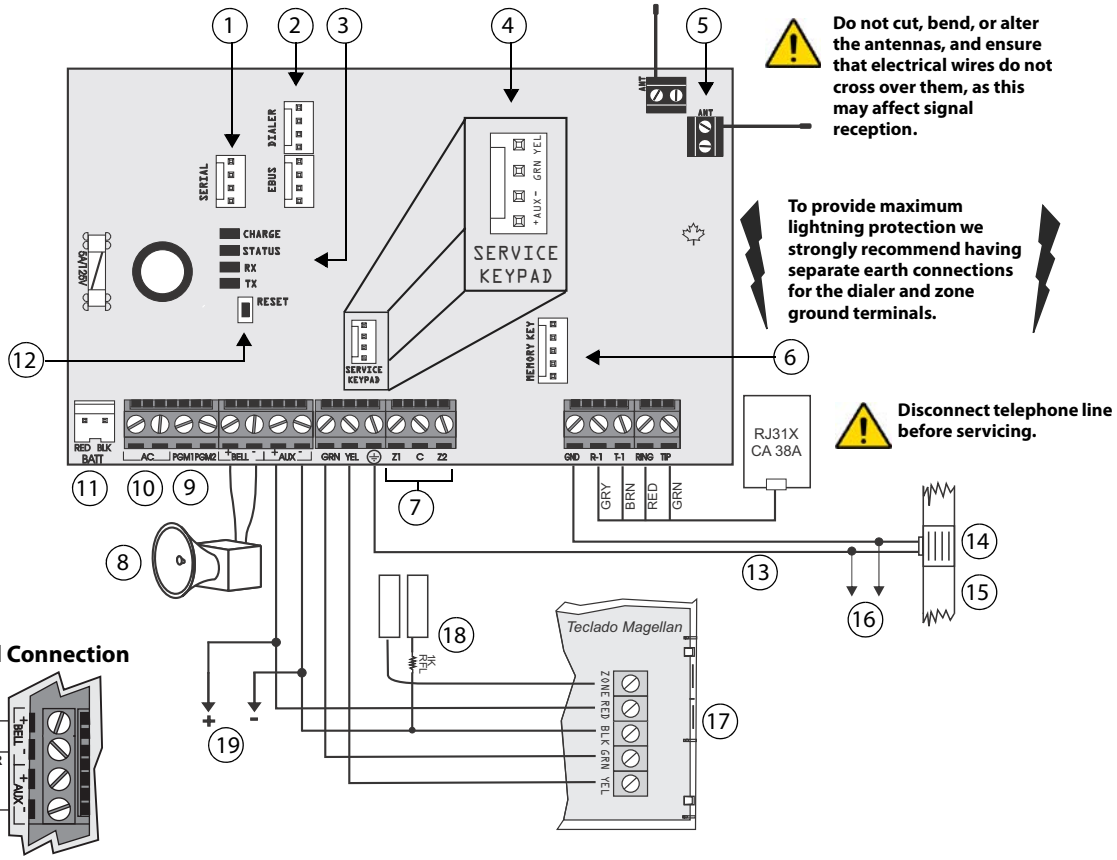
Demonstration or Emergency System Power-up without an AC Source

To power-up the control panel for demonstration or emergency purposes only, use a standard 12 VDC, 4 Ah/7 Ah backup battery. To power the control panel using a backup battery:

1. Connect the battery to the control panel's **BATT** terminal.
2. Use a wire to short the battery's negative terminal to the panel's **AUX-** terminal.

PCB Layouts/Wiring Diagrams

MG5000



1	Used for connecting the IP100 Internet Module; also used for In-Field Firmware upgrade through a 307USB Direct Connect Interface
2	EBUS and Dialer used with: • VDMP3 Plug-in Voice Module for voice reporting • PCS Series GSM Communicator Module
3	**LEDs** Charge LED: • Charging and battery test Status LED: • Flash once every second: Normal • Flashes ON 1 sec. and OFF 1 sec.: Any trouble • Always ON: Panel is using phone line • Fast flash 6 seconds after power-up: Installer lock enabled RX & TX LED: • Flashes quickly when receiving or transmitting RF signals from wireless devices
4	Four-pin connector can be used for quick installation of a keypad
5	Antennas
6	Paradox Memory Key (PMC-4, PMC5)
7	Refer to *Hardware Connections* on page 59
8	The **BELL** output will shutdown if the current exceeds 3A
9	Refer to *Alarm Relay and PGM Connections* on page 60
10	16.5 Vac (50 or 60 Hz), minimum 20 VA (40 VA recommended)
11	Refer to *AC Power & Backup Battery Connections* on page 60
12	Refer to *Panel Reset* on page 3
13	AWG #14 single conductor solid copper wire
14	Ground clamp
15	Cold water pipe grounding
16	To metallic enclosure
17	For the keypad's zone configurations, see *Installer Quick Menu* on page 7
18	If EOL is enabled, see section **[706]** option 2, on page 38; for the keypad's zone configurations, see *Installer Quick Menu* on page 7
19	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 shuts down, you must disconnect all loads from the output for at least 10 sec. before reconnecting any load back to the auxiliary output

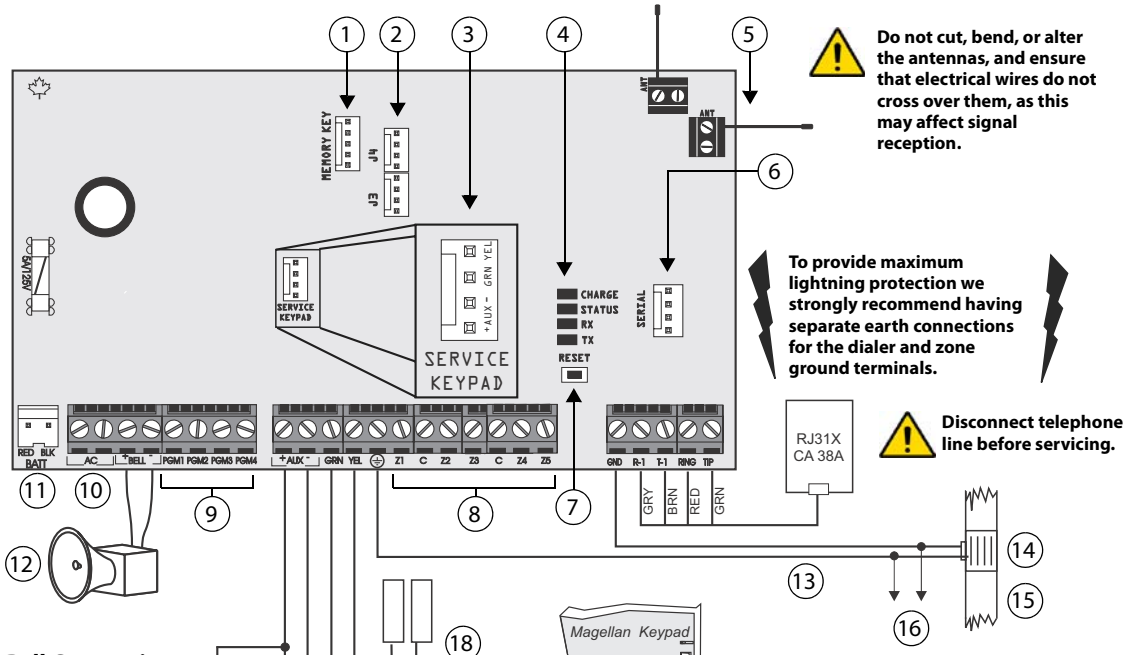
The sum of the current drawn from the BELL and AUX must be limited to 1.3A. Exceeding this limit will overload the panel power supply and lead to complete system shutdown.

40 VA transformer strongly recommended.

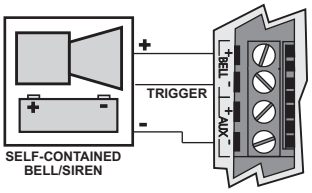
This equipment must be installed and maintained by qualified service personnel only.
For UL and C-UL warnings, refer to the UL and C-UL Warnings section at the back of the MGSP Reference & Installation Manual.

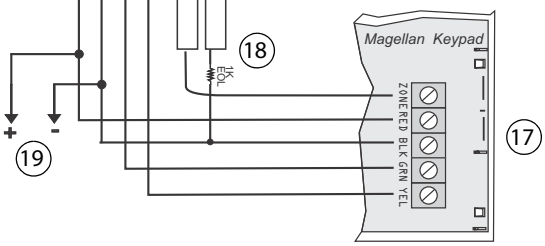
Max. number of keypads: 15 keypads
Max. aux. current: 700 mA
Max. distance of bus module from panel: 76 m (250 ft.)
Max. total run of wire: 230 m (750 ft.)

MG5050



Self-Contained Bell Connection





1	Paradox Memory Key (PMC-4, PMC5)
2	J3 (**EBUS**) and J4 (**DIALER**) used with: • VDMP3 Plug-in Voice Module for voice reporting • PCS Series GSM Communicator Module
3	Four-pin connector can be used for quick installation of a keypad
4	**LEDs** Charge LED: • Charging and battery test Status LED: • Flash once every second: Normal • Flashes ON 1 sec. and OFF 1 sec.: Any trouble • Always ON: Panel is using phone line • Fast flash 6 seconds after power-up: Installer lock enabled RX & TX LED: • Flashes quickly when receiving or transmitting RF signals from wireless devices
5	Antennas
6	Used for connecting the IP100 Internet Module; also used for In-Field Firmware upgrade through a 307USB Direct Connect Interface
7	Refer to *Panel Reset* on page 3
8	Refer to *Hardware Connections* on page 59
9	Refer to *Alarm Relay and PGM Connections* on page 60 NOTE: +/- trigger on PGM4 only
10	16.5 Vac (50 or 60 Hz), minimum 20 VA (40 VA recommended)
11	Refer to *AC Power & Backup Battery Connections* on page 60
12	The **BELL** output will shutdown if the current exceeds 3A
13	AWG #14 single conductor solid copper wire
14	Ground clamp
15	Cold water pipe grounding
16	To metallic enclosure
17	For the keypad's zone configurations, see *Installer Quick Menu* on page 7
18	If EOL is enabled, see section **[706]** option 2, on page 38; for the keypad's zone configurations, see *Installer Quick Menu* on page 7
19	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 shuts down, you must disconnect all loads from the output for at least 10 sec. before reconnecting any load back to the auxiliary output

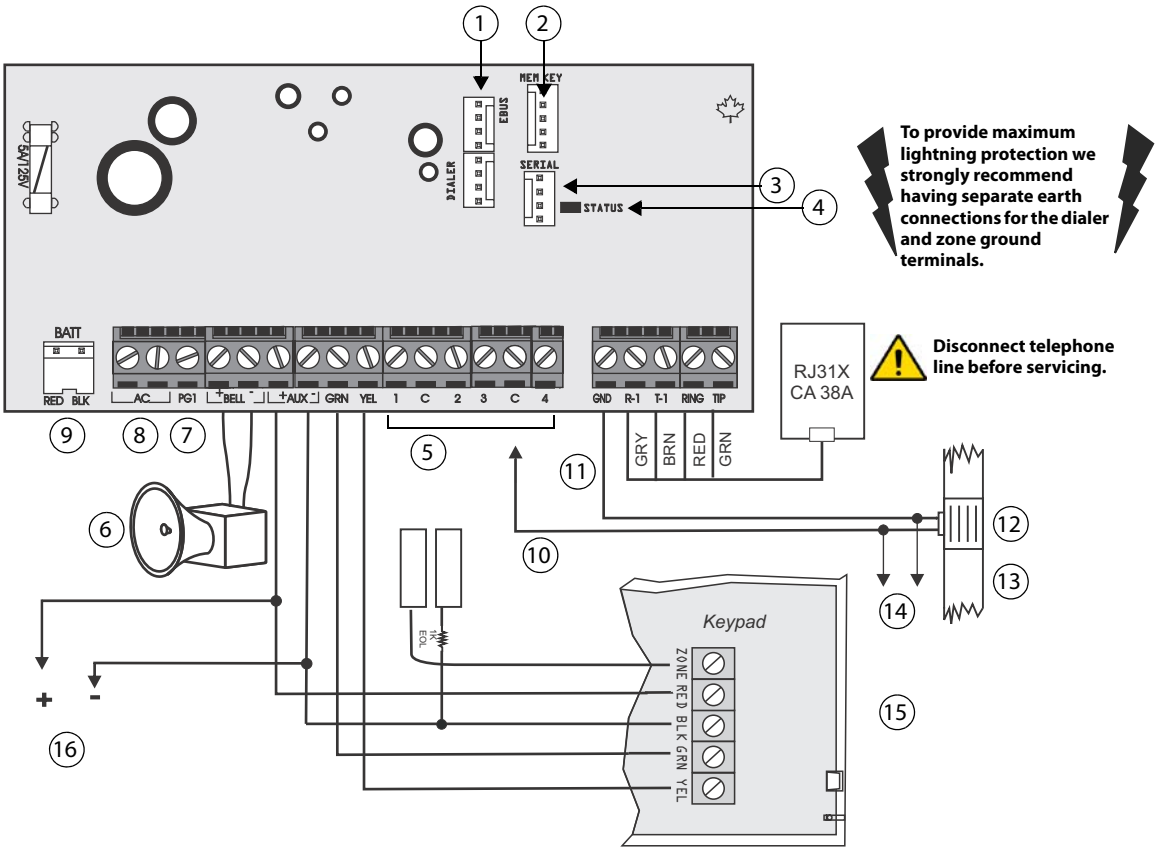
The sum of the current drawn from the BELL and AUX must be limited to 1.3A. Exceeding this limit will overload the panel power supply and lead to complete system shutdown.

40 VA transformer strongly recommended.

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 MGSP Reference & Installation Manual.

Max. number of keypads: 15 keypads
Max. aux. current: 700 mA
Max. distance of bus module from panel: 76 m (250 ft.)
Max. total run of wire: 230 m (750 ft.)

SP4000



1	**EBUS** port used for GSM reporting using the PCS Series GSM Communicator Module; if using a CVT485 Plug-In RS485 Converter, connect the PCS module to the RS485 bus; **DIALER** and **EBUS** port used for voice reporting with the VDMP3 Plug-in Voice Module.
2	Paradox Memory Key (PMC-4, PMC5)
3	Used for connecting the IP100 Internet Module; also used for In-Field Firmware upgrade through a 307USB Direct Connect Interface
4	Status LED: • Flash once every second: Normal • Flashes ON 1 sec. and OFF 1 sec.: Any trouble • Always ON: Panel is using phone line • Fast flash 6 seconds after power-up: Installer lock enabled
5	Refer to *Hardware Connections* on page 59
6	The **BELL** output will shutdown if the current exceeds 3A
7	Refer to *Alarm Relay and PGM Connections* on page 60
8	16.5 Vac (50 or 60 Hz), minimum 20 VA (40 VA recommended)
9	Refer to *AC Power & Backup Battery Connections* on page 60
10	Connect to any common input
11	AWG #14 single conductor solid copper wire
12	Ground clamp
13	Cold water pipe grounding
14	To metallic enclosure
15	For the keypad's zone configurations, see *Installer Quick Menu* on page 7; If EOL is enabled, see section **[706]** option 2, on page 38
16	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 shuts down, you must disconnect all loads from the output for at least 10 sec. before reconnecting any load back to the auxiliary output

Panel Reset

To perform a panel reset, see *Panel Reset* on page 3.

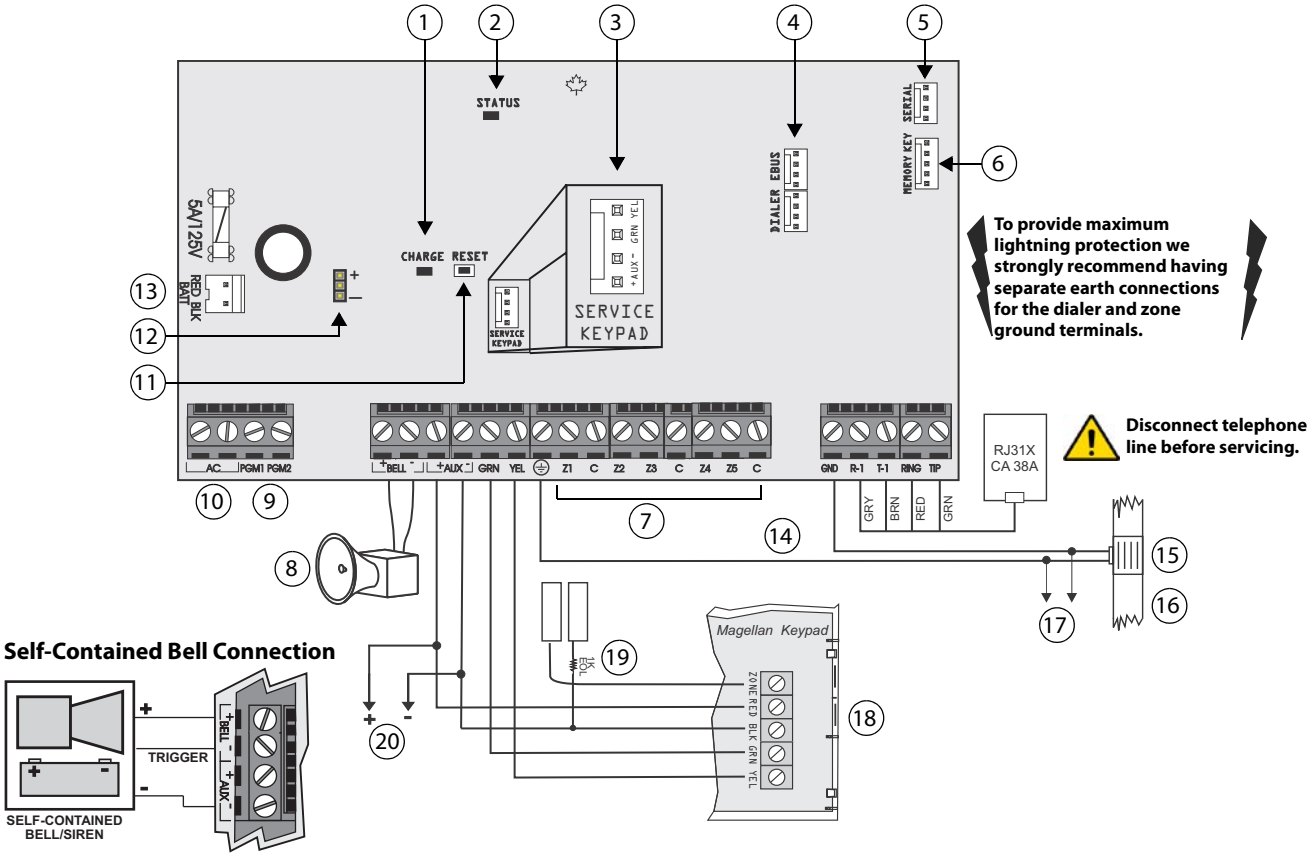
The sum of the current drawn from the BELL and AUX must be limited to 1.3A. Exceeding this limit will overload the panel power supply and lead to complete system shutdown.

40 VA transformer strongly recommended.

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 MGSP Reference & Installation Manual.

Max. number of keypads: 15 keypads
Max. aux. current: 450 mA
Max. distance of bus module from panel: 76 m (250 ft.)
Max. total run of wire: 230 m (750 ft.)

SP5500



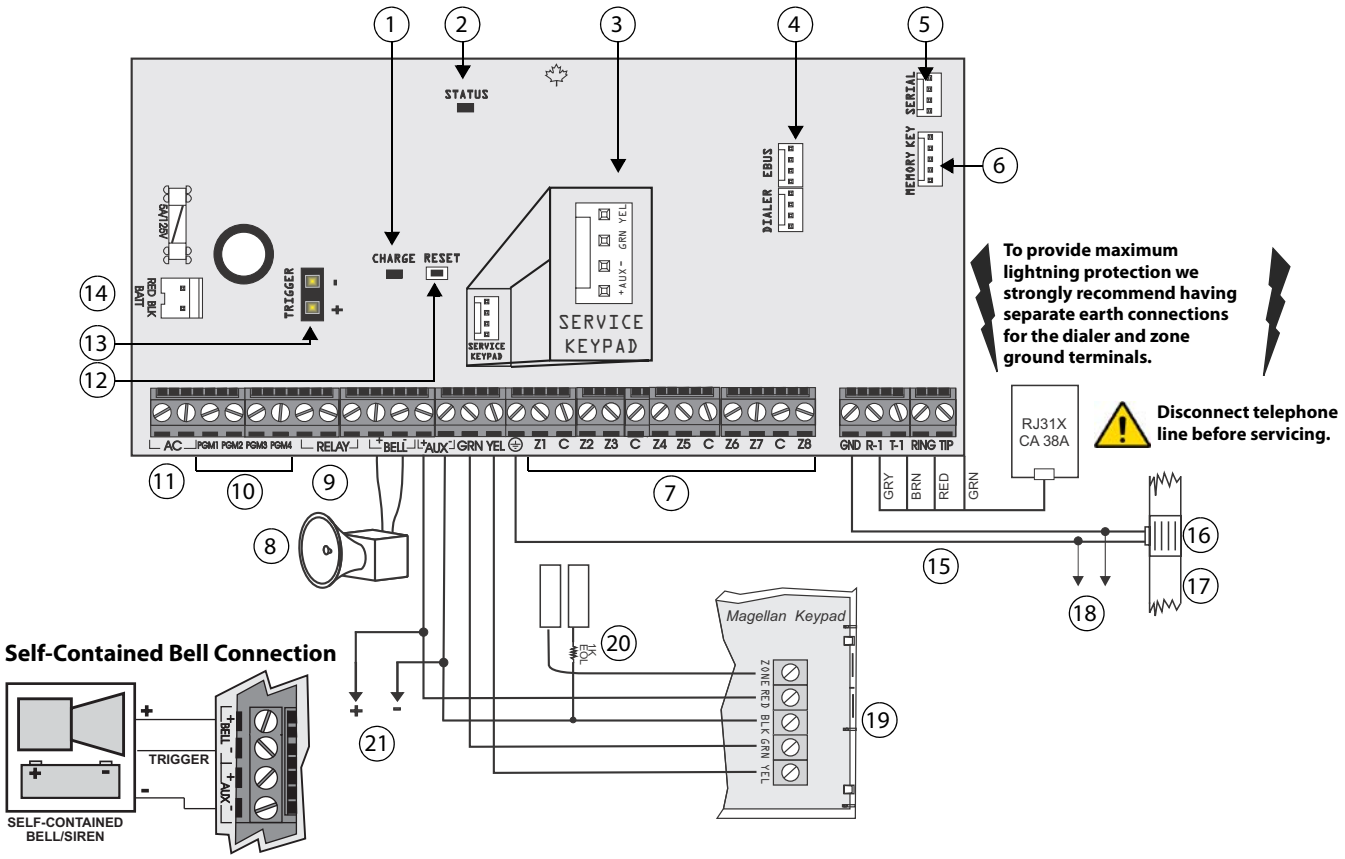
The sum of the current drawn from the BELL and AUX must be limited to 1.3A. Exceeding this limit will overload the panel power supply and lead to complete system shutdown.

40 VA transformer strongly recommended.

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 MGSP Reference & Installation Manual.

Max. number of keypads: 15 keypads
Max. aux. current: 700 mA
Max. distance of bus module from panel: 76 m (250 ft.)
Max. total run of wire: 230 m (750 ft.)

SP6000



1	Charge LED: • Charging and battery test
2	Status LED: • Flash once every second: Normal • Flashes ON 1 sec. and OFF 1 sec.: Any trouble • Always ON: Panel is using phone line • Fast flash 6 seconds after power-up: Installer lock enabled
3	Four-pin connector can be used for quick installation of a keypad
4	EBUS and Dialer used with: • VDMP3 Plug-in Voice Module for voice reporting • PCS Series GSM Communicator Module
5	Used for connecting the IP100 Internet Module; also used for In-Field Firmware upgrade through a 307USB Direct Connect Interface
6	Paradox Memory Key (PMC-4, PMC5)
7	Refer to *Hardware Connections* on page 59
8	The **BELL** output will shutdown if the current exceeds 3A
9	Programmable output relay: max. 5A @ 60 Vdc or 120 Vac
10	Refer to *Alarm Relay and PGM Connections* on page 60
11	16.5 Vac (50 or 60 Hz), minimum 20 VA (40 VA recommended)
12	Refer to *Panel Reset* on page 3
13	PGM trigger: this jumper allows you to choose whether the solid state relay PGMs are grounded (-) or give out 12V (+)
14	Refer to *AC Power & Backup Battery Connections* on page 60
15	AWG #14 single conductor solid copper wire
16	Ground clamp
17	Cold water pipe grounding
18	To metallic enclosure
19	For the keypad's zone configurations, see *Installer Quick Menu* on page 7
20	If EOL is enabled, see section **[706]** option 2, on page 38; for the keypad's zone configurations, see *Installer Quick Menu* on page 7
21	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 shuts down, you must disconnect all loads from the output for at least 10 sec. before reconnecting any load back to the auxiliary output

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

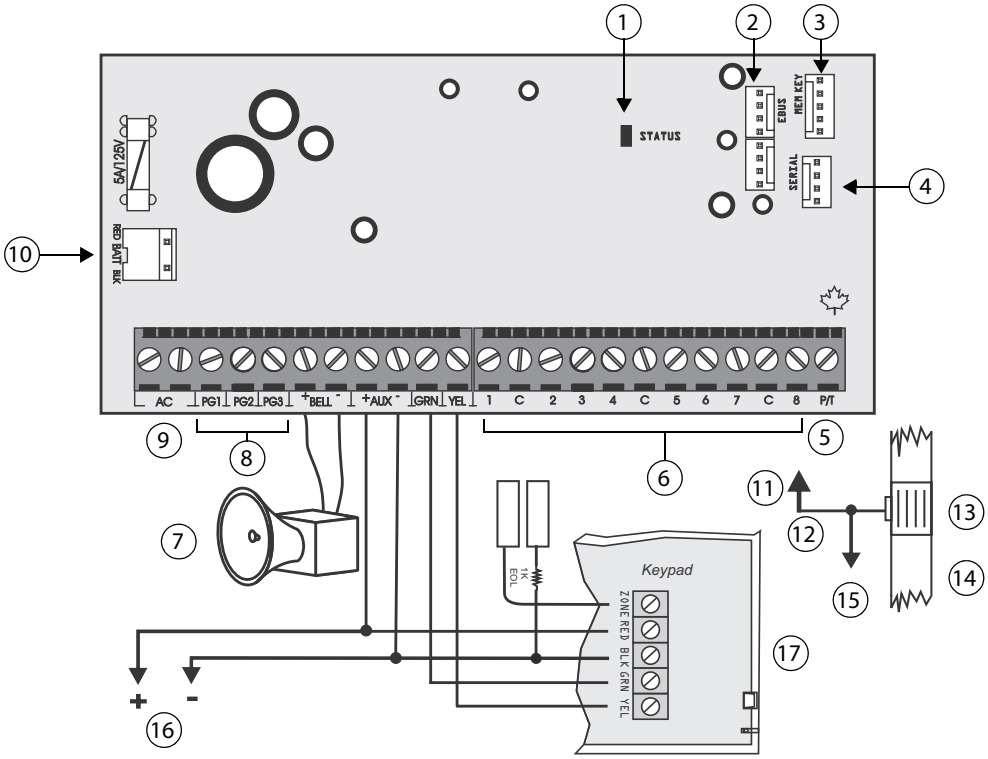
40 VA transformer strongly recommended.

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 MGSP Reference & Installation Manual.

Max. number of keypads: 15 keypads
Max. aux. current: 700 mA
Max. distance of bus module from panel: 76 m (250 ft.)
Max. total run of wire: 230 m (750 ft.)

When using an SP6000 in conjunction with an RTX3, all K32 and K10V/H keypads must be versions 2.0 and higher.

SP65



1	Status LED: • Flash once every second: Normal • Flashes ON 1 sec. and OFF 1 sec.: Any trouble • Always ON: Panel is using phone line Fast flash 6 seconds after power-up: Installer lock enabled
2	**EBUS** port used for GSM reporting using the PCS Series GSM Communicator Module; if using a CVT485 Plug-In RS485 Converter, connect the PCS module to the RS485 bus; **DIALER** and **EBUS** port used for voice reporting with the VDMP3 Plug-in Voice Module.
3	Paradox Memory Key (PMC-4, PMC5)
4	Used for connecting the IP100 Internet Module; also used for In-Field Firmware upgrade through a 307USB Direct Connect Interface
5	Panic/tamper input
6	Refer to *Hardware Connections* on page 59
7	The **BELL** output will shutdown if the current exceeds 3A
8	Refer to *Alarm Relay and PGM Connections* on page 60
9	16.5 Vac (50 or 60 Hz), minimum 20 VA (40 VA recommended)
10	Refer to *AC Power & Backup Battery Connections* on page 60
11	Connect to any common input
12	AWG #14 single conductor solid copper wire
13	Ground clamp
14	Cold water pipe grounding
15	To metallic enclosure
16	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 shuts down, you must disconnect all loads from the output for at least 10 sec. before reconnecting any load back to the auxiliary output
17	For the keypad's zone configurations, see *Installer Quick Menu* on page 7; If EOL is enabled, see section **[706]** option 2, on page 38

Panel Reset

To perform a panel reset, see *Panel Reset* on page 3.

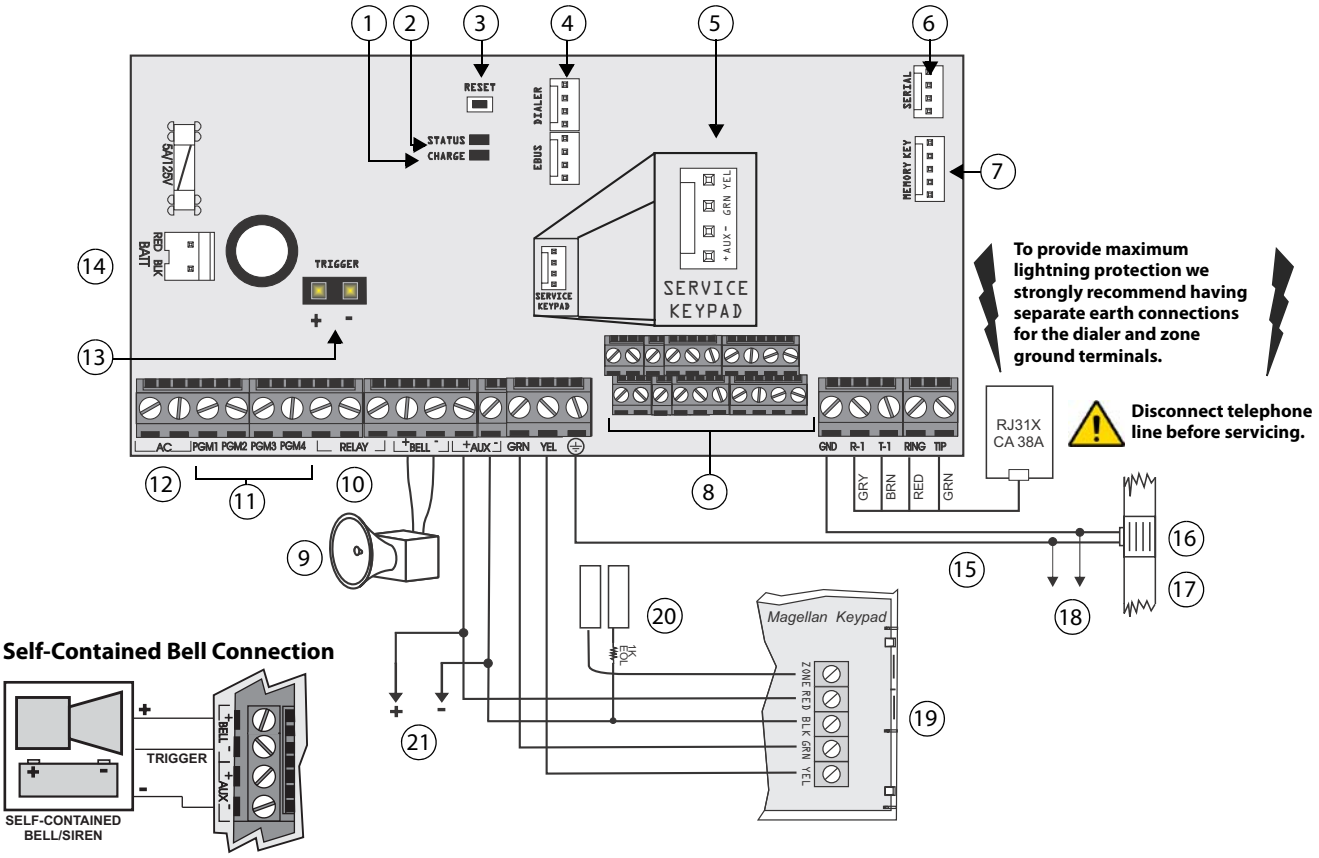
The sum of the current drawn from the BELL and AUX must be limited to 1.3A. Exceeding this limit will overload the panel power supply and lead to complete system shutdown.

40 VA transformer strongly recommended.

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 MGSP Reference & Installation Manual.

Max. number of keypads: 15 keypads
Max. aux. current: 500 mA
Max. distance of bus module from panel: 76 m (250 ft.)
Max. total run of wire: 230 m (750 ft.)

SP7000



1	Charge LED: • Charging and battery test
2	Status LED: • Flash once every second: Normal • Flashes ON 1 sec. and OFF 1 sec.: Any trouble • Always ON: Panel is using phone line • Fast flash 6 seconds after power-up: Installer lock enabled
3	Refer to *Panel Reset* on page 3
4	EBUS and Dialer used with: • VDMP3 Plug-in Voice Module for voice reporting • PCS Series GSM Communicator Module
5	Four-pin connector can be used for quick installation of a keypad
6	Used for connecting the IP100 Internet Module; also used for In-Field Firmware upgrade through a 307USB Direct Connect Interface
7	Paradox Memory Key (PMC-4, PMC5)
8	Refer to *Hardware Connections* on page 59
9	The **BELL** output will shutdown if the current exceeds 3A
10	Programmable output relay: max. 5A @ 60 Vdc or 120 Vac
11	Refer to *Alarm Relay and PGM Connections* on page 60
12	16.5 Vac (50 or 60 Hz), minimum 20 VA (40 VA recommended)
13	PGM trigger: this jumper allows you to choose whether the solid state relay PGMs are grounded (-) or give out 12V (+)
14	Refer to *AC Power & Backup Battery Connections* on page 60
15	AWG #14 single conductor solid copper wire
16	Ground clamp
17	Cold water pipe grounding
18	To metallic enclosure
19	For the keypad's zone configurations, see *Installer Quick Menu* on page 7
20	If EOL is enabled, see section **[706]** option 2, on page 38; for the keypad's zone configurations, see *Installer Quick Menu* on page 7
21	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 shuts down, you must disconnect all loads from the output for at least 10 sec. before reconnecting any load back to the auxiliary output

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

40 VA transformer strongly recommended.

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 MGSP Reference & Installation Manual.

Max. number of keypads: 15 keypads
Max. aux. current: 700 mA
Max. distance of bus module from panel: 76 m (250 ft.)
Max. total run of wire: 230 m (750 ft.)

Appendix A

EN 50131 Programming

The following sections describe all the programming required for your panel to be EN 50131 compliant. To set your panel to be EN 50131 compliant:

1. Enter section [951] to unlock the software and set EN 50131 defaults.
2. Press Enter.

NOTE: All keypads in the system must have anti-tamper enabled in order to be EN 50131 compliant.

EN 50131 Standard System Defaults

The following sections are provide the system defaults that will be set for EN50131 compliancy. The following provides information on sections **[700]** through **[840].**

Table 59: Description of section [700]

Section	Option	Option Type	Description	OFF		ON	
Section [700]	1	Partitioning	Partitioning	▲	Disabled	□	Enabled
	2	General system options	Battery charging	▲	350mA	□	700mA
	3		Audible trouble warning (except AC failure)	▲	Disabled	□	Enabled
	4		Audible trouble warning on AC failure	▲	Disabled	□	Enabled
	5	RF jamming supervision	RF jamming supervision	□	Disabled	▲	Enabled
	6	General system options	Exit delay termination	▲	Disabled	□	Enabled
	7		Tamper supervision on the bus module	□	Disabled	▲	Enabled
	8	Future use	-	-	-	-	-

Table 60: Description of section [703]

Section	Option	Option Type	Description	OFF		ON	
Section [703]	1	Keypad options 2	One-touch regular arming (also REM3)	▲	Disabled	□	Enabled
	2		One-touch stay arming (also REM3)	▲	Disabled	□	Enabled
	3		One-touch sleep arming (also REM3)	▲	Disabled	□	Enabled
	4		One-touch bypass programming	▲	Disabled	□	Enabled
	5	Arming/disarming options	Restrict arming on battery failure	▲	Disabled	□	Enabled
	6		Restrict arming on tamper failure (zone + bus module + wireless PGM)	▲	Disabled	□	Enabled
	7		Restrict arming on supervision trouble; wireless zones & PGM + bus module	▲	Disabled	□	Enabled
	8	Arm/disarm with VDMP3	Arm/disarm with VDMP3	□	Disabled	▲	Enabled

ATZ Options

Table 61: Description of section [705]

	Option	Description	OFF		ON	
Section [705]	1	ATZ zone doubling	▲	Disabled	□	Enabled
	2	ATZ wiring options	▲	Series	□	Parallel
	3	Tamper recognition (see following table)	□	Disabled	▲	Enabled
	4		▲	Disabled	□	Enabled
	5	Generate tamper on bypassed zone	□	No	▲	Yes
	6	Supervision options (see following table)	□	Disabled	▲	Enabled
	7		▲	Disabled	□	Enabled
	8	Generate supervision on bypassed zone	□	No	▲	Yes

▲= Default

Table 62: Description of options 3 & 4 and 6 & 7, in section [705]

Option		*Description*	
3	4	RF Zone/Hardwired Zone Tamper Recognition Options	Keypad/Bus Module Tamper Recognition 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
6	7	RF Zone 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

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

General Zone Options

Table 63: Description of section [706]

	Option	*Description*	*OFF*		*ON*	
Section **[706]**	1	Check-in supervision time	□	24 hours	▲	80 minutes
	2	EOL resistors (applies to all hardwired zones – panel, keypad, ZX8)	□	Disabled	▲	Enabled
	3	Zone input 1 becomes a two-wire smoke input (except SP4000, SP5500, and SP65)	▲	Disabled	□	Enabled
	4	ZX8 ID A (panel + 1) input 1	□	Zone input	▲	Tamper input
	5	ZX8 ID B (panel + 9) input 1	□	Zone input	▲	Tamper input
	6	ZX8 ID C (panel + 17) input 1	□	Zone input	▲	Tamper input

▲= Default

Miscellaneous System Options

Table 64: Description of section [708]

	Option	*Description*	*OFF*		*ON*	
Section **[708]** **EN50131 OPTIONS**	1	Enter code to view trouble	□	One-touch	▲	Enter code
	2	Enter code to view alarm in memory/event list	□	One-touch	▲	Enter code
	3	Trouble latch	□	Disabled	▲	Enabled
	4	Bell squawk on Installer in	□	Disabled	▲	Enabled
	5	Acknowledge trouble(s) before arming	□	Disabled	▲	Enabled
	6	Do not arm if zone opens during exit delay	□	Disabled	▲	Enabled
	7	Disable 'Bypass and Arm'	□	Disabled	▲	Enabled
	8	Future use	-	-	-	-

▲= Default

System Timers

Worksheet 56: System Timers

Section		*Data*	*Description*
[710]	___/___/___	000 to 255 seconds	Entry delay 1* (default: 045)
[711]	___/___/___	000 to 255 seconds	Entry delay 2* (default: 045)
[712]	___/___/___	000 to 015	Auto-zone shutdown counter (default: 005)
[713]	___/___/___	000 to 255 seconds	Intellizone delay (default: 048)
[714]	___/___/___	000 to 255 minutes	Recycle alarm delay (default: 000)
[715]	___/___/___	000 to 255	Recycle alarm counter (default: 000)

Section		*Data*	*Description*
[718]	___/___/___	000 to 255 seconds	Remote panic disarm lock delay (default: 000)
[719]	___/___/___	000 to 255 days	Closing delinquency delay (default: 000)
[720]	___/___/___	000 to 255 seconds	Flex-instant delay (default: 015)
[721]	___/___/___	000 to 255 seconds	For StayD: re-arm delay (default: 005)
[722]	___/___/___	000 to 255 seconds	Auto trouble shutdown** (default: 010)
[723]	___/___/___	000 to 255 seconds	Panic shutdown** (default: 010)

* For EN 50131, the maximum value is 45 seconds.
** For EN 50131, the section must be set to a minimum of 3 and a maximum of 10

Keypad Lockout

Use the following section to program keypad lockout settings for your MG/SP control panel. Use worksheet 30 to record your settings.

Worksheet 57: Keypad Lockout

Section		Data	Description	Default
[716]	___/___/___	000 to 255 minutes	Keypad lockout delay	015 minutes
[717]	___/___/___	000 to 255 attempts before locking	Keypad lockout counter	005 attempts

NOTE: For EN 50131, the keypad lockout value must be set between three and ten attempts. The minimum delay to lock must be two minutes.

Dialer Options

Table 65: Description of section [801]

	Option	Description	OFF		ON	
Section **[801]**	1	Report system disarming	□	Always	▲	After alarm
	2	Report zone restore on closure	□	Bell cutoff	▲	Zone closure
	3 & 4	Auto-test report transmission	▲	Disabled	□	Enabled
	5	Contact ID override	▲	Disabled	□	Enabled
	6	Future use				
	7	Future use				
	8	Future use				

▲= Default

Timers

Use worksheet 38 to record your settings for sections **[820]** to **[840]**.

Worksheet 58: Communication Timers

Section		Data	Description	Default
[820]	___/___/___	000 to 255 hours	Fail to comm. clear event timer (does not apply to SP4000 and SP65)	000 = disabled
[830]	___/___/___	000 to 255 x 2 seconds	TLM fail delay (landline only)	016
[831]	___/___/___	000 to 032	Maximum dialing attempts monitoring station (landline and GSM only)	002
[832]	___/___/___	000 to 127 seconds	Delay between dialing attempts* (landline and GSM only)	020
[833]	___/___/___	000 to 255 seconds	Delay alarm transmission	000
[834]	___/___/___	000 to 127 seconds	Pager reporting delay	020
[835]	___/___/___	000 to 010	Pager reporting message repetition	003
[836]	___/___/___	000 to 127 seconds	Personal reporting delay*	005
[837]	___/___/___	000 to 010	Personal reporting message repetition*	003
[838]	___/___/___	000 to 255 seconds	Recent closing delay	000
[839]	___/___/___	000 to 255 minutes	Power failure report delay**	015
[840]	___/___/___	000 to 255 days	Auto test report (see table 37 on page 42)	001

* Also applicable when using a VDMP3 Plug-in Voice Dialer.

**The maximum value for power failure is 60 minutes.

Special notes for MG5050

The Installer Quick Menu is not available anymore for MG5050 V4.9 or higher.
Section **[820]** (Fail to comm. clear event timer) is not available anymore for MG5050 V4.9 or higher.

The whole Paradox team wishes you a successful and easy installation. We hope this product performs to your complete satisfaction. Should you have any questions or comments, please contact us.

For support, please contact your local distributor, or dial 1-800-791-1919 (in North America) or +1-450-491-7444 (outside North America), Monday to Friday, from 8:00 a.m. to 8:00 p.m. EST.

You may also e-mail us at support@paradox.com.
Additional information can be found at PARADOX.COM

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