



32-Zone Wireless Transceiver Security Systems

MG5000 Version 4.7

MG5050 Version 4.7

MG5050E Version 4.96



4 to 32-Zone Expandable Security Systems

SP5500 • SP6000 • SP7000

Version 4.92

SP4000 • SP65

Version 5.16

Programming Guide



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 but not limited to inadequate or improper installation/positioning, sensor limitations, battery performance, wireless signal interruption, inadequate maintenance or the potential for the system or telephone lines to be compromised or circumvented. As a result, Paradox does not represent that the alarm system will prevent personal injury or property damage, or in all cases provide adequate warning or protection.

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

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

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.

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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 two conditions: (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

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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: <input type="checkbox"/> 6 digits <input checked="" type="checkbox"/> 4 digits (4 digits is the default value) |  : 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.

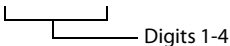
Feature Select Programming Method

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: <ul style="list-style-type: none"> 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**


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 Compliance

To have your EVO panel compliant with EN 50131 standards, see *Appendix A* on page 68. Please note that Quick Menu Programming is not available with the EN version 4.96.

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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 <i>Zone Definitions</i> 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 | | - |
| 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 | + 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 | | - |
| 3 | 6 | Activates or deactivates walk test mode |

Installer and Maintenance Codes

| Step | Action | Details |
|------|---------------------------------|---|
| 1 | + installer code | = flash |
| 2 | | - |
| 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 | | - |
| 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 | | - |
| 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 | SIA is not supported with GPRS/IP reporting |
| | • 2 for SIA | |
| 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 | | - |
| 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 | | - |
| 3 | 9 | Cancel 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, maximum 150 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 | | - |
| 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. |
| 6 | 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

| <i>Serial # Sticker</i> | <i>Description</i> | <i>Path Zone (Entry Point)</i> | <i>Path Zone</i> | <i>Path Zone</i> | <i>Path Zone</i> |
|-------------------------|--------------------|--------------------------------|------------------|------------------|------------------|
| 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 |
|------------------|-------------|
| Siren 1 | |
| Siren 2 | |

| Serial # Sticker | Description |
|------------------|-------------|
| Siren 3 | |
| 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 | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Zone | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

| Serial # Sticker | Zone # | Zone Description | Arming Method | | |
|------------------|--------|------------------|--------------------------|--------------------------|--------------------------|
| | | | Stay | Sleep | Full |
| Zone | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Zone | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Worksheet 6: Planning Zones (Continued)

| Serial # Sticker | Zone # | Zone Description | Arming Method | | | Serial # Sticker | Zone # | Zone Description | Arming Method | | |
|------------------|--------|------------------|--------------------------|--------------------------|--------------------------|------------------|--------|------------------|--------------------------|--------------------------|--------------------------|
| | | | Stay | Sleep | Full | | | | Stay | Sleep | Full |
| Zone | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Zone | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Zone | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Zone | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Zone | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Zone | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Zone | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Zone | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Zone | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Zone | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Zone | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Zone | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Zone | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Zone | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Zone | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Zone | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Zone | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Zone | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Zone | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Zone | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Zone | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Zone | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Zone | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Zone | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Zone | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Zone | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Zone | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Zone | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Zone | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Zone | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Zone | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Zone | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Zone | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Zone | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Zone | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Zone | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Zone | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Zone | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Zone | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Zone | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

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) | | | MG5000 (with ATZ) | | | MG5050 (without ATZ) | | | MG5050 (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 |
| ZX8 Jumper Panel + 1 | 3 | Input 1 | | 3 | Panel input 1B | | 3 | Panel input 3 | | 3 | Panel input 3A |
| | 4 | Input 2 | | 4 | Panel input 2B | | 4 | Panel input 4 | | 4 | Panel input 4A |
| | 5 | Input 3 | ZX8 Jumper Panel + 1 | 5 | Input 1 | | 5 | Panel input 5 | | 5 | Panel input 5A |
| | 6 | Input 4 | | 6 | Input 2 | 6 | Input 1 | 6 | | Panel input 1B | |
| | 7 | Input 5 | | 7 | Input 3 | 7 | Input 2 | 7 | | Panel input 2B | |
| | 8 | Input 6 | | 8 | Input 4 | 8 | Input 3 | 8 | | Panel input 3B | |
| | 9 | Input 7 | | 9 | Input 5 | 9 | Input 4 | 9 | | Panel input 4B | |
| | 10 | Input 8 | | 10 | Input 6 | 10 | Input 5 | 10 | | Panel input 5B | |
| ZX8 Jumper Panel + 9 | 11 | Input 1 | | 11 | Input 7 | 11 | Input 6 | ZX8 Jumper Panel + 1 | 11 | Input 1 | |
| | 12 | Input 2 | | 12 | Input 8 | 12 | Input 7 | | 12 | Input 2 | |
| | 13 | Input 3 | ZX8 Jumper Panel + 9 | 13 | Input 1 | 13 | Input 8 | | 13 | Input 3 | |
| | 14 | Input 4 | | 14 | Input 2 | 14 | Input 1 | | 14 | Input 4 | |
| | 15 | Input 5 | | 15 | Input 3 | 15 | Input 2 | | 15 | Input 5 | |
| | 16 | Input 6 | | 16 | Input 4 | 16 | Input 3 | | 16 | Input 6 | |
| | 17 | Input 7 | | 17 | Input 5 | 17 | Input 4 | | 17 | Input 7 | |
| | 18 | Input 8 | | 18 | Input 6 | 18 | Input 5 | | 18 | Input 8 | |
| ZX8 Jumper Panel + 17 | 19 | Input 1 | | 19 | Input 7 | 19 | Input 6 | ZX8 Jumper Panel + 9 | 19 | Input 1 | |
| | 20 | Input 2 | | 20 | Input 8 | 20 | Input 7 | | 20 | Input 2 | |
| | 21 | Input 3 | ZX8 Jumper Panel + 17 | 21 | Input 1 | 21 | Input 8 | | 21 | Input 3 | |
| | 22 | Input 4 | | 22 | Input 2 | 22 | Input 1 | | 22 | Input 4 | |
| | 23 | Input 5 | | 23 | Input 3 | 23 | Input 2 | | 23 | Input 5 | |
| | 24 | Input 6 | | 24 | Input 4 | 24 | Input 3 | | 24 | Input 6 | |
| | 25 | Input 7 | | 25 | Input 5 | 25 | Input 4 | | 25 | Input 7 | |
| | 26 | Input 8 | | 26 | Input 6 | 26 | Input 5 | | 26 | Input 8 | |
| - | 27 | - | | 27 | Input 7 | 27 | Input 6 | ZX8 Jumper Panel + 17 | 27 | Input 1 | |
| | 28 | - | | 28 | Input 8 | 28 | Input 7 | | 28 | Input 2 | |
| | 29 | - | - | 29 | - | 29 | Input 8 | | 29 | Input 3 | |
| | 30 | - | | 30 | - | 30 | - | | 30 | Input 4 | |
| | 31 | - | | 31 | - | 31 | - | | 31 | Input 5 | |
| | 32 | - | | 32 | - | 32 | - | | 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 | ZX8 Jumper Panel + 1 | 5 | Panel input 1B | ZX8 Jumper Panel + 1 | 5 | Panel input 5 | ZX8 Jumper Panel + 1 | 5 | Panel input 5A | ZX8 Jumper Panel + 1 | 5 | Panel input 5 | ZX8 Jumper Panel + 1 | 5 | Panel input 5A |
| | 6 | Input 2 | | 6 | Panel input 2B | | 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 |
| ZX8 Jumper Panel + 9 | 9 | Input 5 | ZX8 Jumper Panel + 9 | 9 | Input 1 | ZX8 Jumper Panel + 9 | 9 | Input 4 | ZX8 Jumper Panel + 9 | 9 | Panel input 4B | ZX8 Jumper Panel + 9 | 9 | Input 1 | ZX8 Jumper Panel + 9 | 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 | | 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 | ZX8 Jumper Panel + 9 | 13 | Input 5 | ZX8 Jumper Panel + 9 | 13 | Input 8 | ZX8 Jumper Panel + 9 | 13 | Input 3 | ZX8 Jumper Panel + 9 | 13 | Input 5 | ZX8 Jumper Panel + 9 | 13 | Panel input 5B |
| | 14 | Input 2 | | 14 | Input 6 | | 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 |
| ZX8 Jumper Panel + 17 | 17 | Input 5 | ZX8 Jumper Panel + 17 | 17 | Input 1 | ZX8 Jumper Panel + 17 | 17 | Input 4 | ZX8 Jumper Panel + 17 | 17 | Input 7 | ZX8 Jumper Panel + 17 | 17 | Input 1 | ZX8 Jumper Panel + 17 | 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 | | 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 | ZX8 Jumper Panel + 17 | 21 | Input 5 | ZX8 Jumper Panel + 17 | 21 | Input 8 | ZX8 Jumper Panel + 17 | 21 | Input 3 | ZX8 Jumper Panel + 17 | 21 | Input 5 | ZX8 Jumper Panel + 17 | 21 | Input 5 |
| | 22 | Input 2 | | 22 | Input 6 | | 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 | ZX8 Jumper Panel + 17 | 25 | Input 4 | ZX8 Jumper Panel + 17 | 25 | Input 7 | ZX8 Jumper Panel + 17 | 25 | Input 1 | ZX8 Jumper Panel + 17 | 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 | | 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 | - | ZX8 Jumper Panel + 17 | 29 | Input 5 | - | 29 | Input 8 | ZX8 Jumper Panel + 17 | 29 | Input 3 | ZX8 Jumper Panel + 17 | 29 | Input 5 | ZX8 Jumper Panel + 17 | 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 | Panel | 10 | Panel input 1B | Panel | 10 | Panel input 10 | Panel | 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 |
| ZX8 Jumper Panel + 9 | 18 | Input 1 | ZX8 Jumper Panel + 1 | 18 | Panel input 9B | 18 | | Input 2 | 18 | Panel input 2B | |
| | 19 | Input 2 | | 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 | ZX8 Jumper Panel + 9 | 26 | Input 8 | | 26 | Input 2 | 26 | Panel input 10B | |
| | 27 | Input 2 | | 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 | Section | Zone | Description (see tables 3 and 4) | Zone Definition | Partition | Zone Options |
|---------|------|----------------------------------|-----------------|-----------|-----------------|---------|------|----------------------------------|-----------------|-----------|-----------------|
| [001] | 1 | _____ | ___/___ | _____ | 1 2 3 4 5 6 7 8 | [017] | 17 | _____ | ___/___ | _____ | 1 2 3 4 5 6 7 8 |
| [002] | 2 | _____ | ___/___ | _____ | 1 2 3 4 5 6 7 8 | [018] | 18 | _____ | ___/___ | _____ | 1 2 3 4 5 6 7 8 |
| [003] | 3 | _____ | ___/___ | _____ | 1 2 3 4 5 6 7 8 | [019] | 19 | _____ | ___/___ | _____ | 1 2 3 4 5 6 7 8 |
| [004] | 4 | _____ | ___/___ | _____ | 1 2 3 4 5 6 7 8 | [020] | 20 | _____ | ___/___ | _____ | 1 2 3 4 5 6 7 8 |
| [005] | 5 | _____ | ___/___ | _____ | 1 2 3 4 5 6 7 8 | [021] | 21 | _____ | ___/___ | _____ | 1 2 3 4 5 6 7 8 |
| [006] | 6 | _____ | ___/___ | _____ | 1 2 3 4 5 6 7 8 | [022] | 22 | _____ | ___/___ | _____ | 1 2 3 4 5 6 7 8 |
| [007] | 7 | _____ | ___/___ | _____ | 1 2 3 4 5 6 7 8 | [023] | 23 | _____ | ___/___ | _____ | 1 2 3 4 5 6 7 8 |
| [008] | 8 | _____ | ___/___ | _____ | 1 2 3 4 5 6 7 8 | [024] | 24 | _____ | ___/___ | _____ | 1 2 3 4 5 6 7 8 |
| [009] | 9 | _____ | ___/___ | _____ | 1 2 3 4 5 6 7 8 | [025] | 25 | _____ | ___/___ | _____ | 1 2 3 4 5 6 7 8 |
| [010] | 10 | _____ | ___/___ | _____ | 1 2 3 4 5 6 7 8 | [026] | 26 | _____ | ___/___ | _____ | 1 2 3 4 5 6 7 8 |
| [011] | 11 | _____ | ___/___ | _____ | 1 2 3 4 5 6 7 8 | [027] | 27 | _____ | ___/___ | _____ | 1 2 3 4 5 6 7 8 |
| [012] | 12 | _____ | ___/___ | _____ | 1 2 3 4 5 6 7 8 | [028] | 28 | _____ | ___/___ | _____ | 1 2 3 4 5 6 7 8 |
| [013] | 13 | _____ | ___/___ | _____ | 1 2 3 4 5 6 7 8 | [029] | 29 | _____ | ___/___ | _____ | 1 2 3 4 5 6 7 8 |
| [014] | 14 | _____ | ___/___ | _____ | 1 2 3 4 5 6 7 8 | [030] | 30 | _____ | ___/___ | _____ | 1 2 3 4 5 6 7 8 |
| [015] | 15 | _____ | ___/___ | _____ | 1 2 3 4 5 6 7 8 | [031] | 31 | _____ | ___/___ | _____ | 1 2 3 4 5 6 7 8 |
| [016] | 16 | _____ | ___/___ | _____ | 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

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 1 only) |
| | | 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 <i>Default Data B</i> , in worksheet 26 on page 35) | 01 to 32 | Remote control number |
| | | 99 | Any remote control number |
| 09 | Button pressed on remote (see <i>Default Data C</i> , in worksheet 26 on page 35) | 01 to 32 | Remote control number |
| | | 99 | Any remote control number |
| 10 | Button pressed on remote (see <i>Default Data D</i> , in worksheet 26 on page 35) | 01 to 32 | Remote control number |
| | | 99 | Any remote control number |
| 11 | Button pressed on remote (see <i>Default Data E</i> , 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)

| <i>Event Group</i> | <i>Event Group Description</i> | <i>Sub-group</i> | <i>Sub-group Description</i> |
|--------------------|--------------------------------|------------------|---|
| 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 | Section | PGM | Event | Event Group | Sub-group | Partition (99 for both) | Default |
|---------|-------|--------------|-------------|-----------|-------------------------|------------|---------|--------|--------------|-------------|-----------|-------------------------|----------|
| [220] | PGM 1 | Activation | ___/___ | ___/___ | ___/___ | 08/99/99* | [236] | PGM 9 | Activation | ___/___ | ___/___ | ___/___ | 00/00/00 |
| [221] | | Deactivation | ___/___ | ___/___ | ___/___ | 00/00/00 | [237] | | Deactivation | ___/___ | ___/___ | ___/___ | ___/___ |
| [222] | PGM 2 | Activation | ___/___ | ___/___ | ___/___ | 09/99/99** | [238] | PGM 10 | Activation | ___/___ | ___/___ | ___/___ | 00/00/00 |
| [223] | | Deactivation | ___/___ | ___/___ | ___/___ | 00/00/00 | [239] | | Deactivation | ___/___ | ___/___ | ___/___ | ___/___ |
| [224] | PGM 3 | Activation | ___/___ | ___/___ | ___/___ | 00/00/00 | [240] | PGM 11 | Activation | ___/___ | ___/___ | ___/___ | 00/00/00 |
| [225] | | Deactivation | ___/___ | ___/___ | ___/___ | 00/00/00 | [241] | | Deactivation | ___/___ | ___/___ | ___/___ | ___/___ |
| [226] | PGM 4 | Activation | ___/___ | ___/___ | ___/___ | 00/00/00 | [242] | PGM 12 | Activation | ___/___ | ___/___ | ___/___ | 00/00/00 |
| [227] | | Deactivation | ___/___ | ___/___ | ___/___ | 00/00/00 | [243] | | Deactivation | ___/___ | ___/___ | ___/___ | ___/___ |
| [228] | PGM 5 | Activation | ___/___ | ___/___ | ___/___ | 00/00/00 | [244] | PGM 13 | Activation | ___/___ | ___/___ | ___/___ | 08/99/01 |
| [229] | | Deactivation | ___/___ | ___/___ | ___/___ | 00/00/00 | [245] | | Deactivation | ___/___ | ___/___ | ___/___ | ___/___ |
| [230] | PGM 6 | Activation | ___/___ | ___/___ | ___/___ | 00/00/00 | [246] | PGM 14 | Activation | ___/___ | ___/___ | ___/___ | 09/99/01 |
| [231] | | Deactivation | ___/___ | ___/___ | ___/___ | 00/00/00 | [247] | | Deactivation | ___/___ | ___/___ | ___/___ | ___/___ |
| [232] | PGM 7 | Activation | ___/___ | ___/___ | ___/___ | 00/00/00 | [248] | PGM 15 | Activation | ___/___ | ___/___ | ___/___ | 00/00/00 |
| [233] | | Deactivation | ___/___ | ___/___ | ___/___ | 00/00/00 | [249] | | Deactivation | ___/___ | ___/___ | ___/___ | ___/___ |
| [234] | PGM 8 | Activation | ___/___ | ___/___ | ___/___ | 00/00/00 | [250] | PGM 16 | Activation | ___/___ | ___/___ | ___/___ | 00/00/00 |
| [235] | | Deactivation | ___/___ | ___/___ | ___/___ | 00/00/00 | [251] | | Deactivation | ___/___ | ___/___ | ___/___ | ___/___ |

* 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 | Section | PGM | PGM Delay Value | Default |
|---------|-------|--|---------|---------|--------|--|---------|
| [281] | PGM 1 | ___/___/___ (001 to 255 x 1 sec./min.) | 005 | [289] | PGM 9 | ___/___/___ (001 to 255 x 1 sec./min.) | 005 |
| [282] | PGM 2 | ___/___/___ (001 to 255 x 1 sec./min.) | 005 | [290] | PGM 10 | ___/___/___ (001 to 255 x 1 sec./min.) | 005 |
| [283] | PGM 3 | ___/___/___ (001 to 255 x 1 sec./min.) | 005 | [291] | PGM 11 | ___/___/___ (001 to 255 x 1 sec./min.) | 005 |
| [284] | PGM 4 | ___/___/___ (001 to 255 x 1 sec./min.) | 005 | [292] | PGM 12 | ___/___/___ (001 to 255 x 1 sec./min.) | 005 |
| [285] | PGM 5 | ___/___/___ (001 to 255 x 1 sec./min.) | 005 | [293] | PGM 13 | ___/___/___ (001 to 255 x 1 sec./min.) | 000 |
| [286] | PGM 6 | ___/___/___ (001 to 255 x 1 sec./min.) | 005 | [294] | PGM 14 | ___/___/___ (001 to 255 x 1 sec./min.) | 000 |
| [287] | PGM 7 | ___/___/___ (001 to 255 x 1 sec./min.) | 005 | [295] | PGM 15 | ___/___/___ (001 to 255 x 1 sec./min.) | 005 |
| [288] | PGM 8 | ___/___/___ (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 | Section | PGM | Wireless PGM Serial Number |
|---------|-------|----------------------------|---------|--------|----------------------------|
| [301] | PGM 1 | ___/___/___/___/___/___ | [309] | PGM 9 | ___/___/___/___/___/___ |
| [302] | PGM 2 | ___/___/___/___/___/___ | [310] | PGM 10 | ___/___/___/___/___/___ |
| [303] | PGM 3 | ___/___/___/___/___/___ | [311] | PGM 11 | ___/___/___/___/___/___ |
| [304] | PGM 4 | ___/___/___/___/___/___ | [312] | PGM 12 | ___/___/___/___/___/___ |
| [305] | PGM 5 | ___/___/___/___/___/___ | [313] | PGM 13 | ___/___/___/___/___/___ |
| [306] | PGM 6 | ___/___/___/___/___/___ | [314] | PGM 14 | ___/___/___/___/___/___ |
| [307] | PGM 7 | ___/___/___/___/___/___ | [315] | PGM 15 | ___/___/___/___/___/___ |
| [308] | PGM 8 | ___/___/___/___/___/___ | [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 | Section | PGM | PGM Label |
|---------|-------|---|---------|--------|---|
| [341] | PGM 1 | ___/___/___/___/___/___/___/___/___/___/___/___/___/___/___/___ | [349] | PGM 9 | ___/___/___/___/___/___/___/___/___/___/___/___/___/___/___/___ |
| [342] | PGM 2 | ___/___/___/___/___/___/___/___/___/___/___/___/___/___/___/___ | [350] | PGM 10 | ___/___/___/___/___/___/___/___/___/___/___/___/___/___/___/___ |
| [343] | PGM 3 | ___/___/___/___/___/___/___/___/___/___/___/___/___/___/___/___ | [351] | PGM 11 | ___/___/___/___/___/___/___/___/___/___/___/___/___/___/___/___ |
| [344] | PGM 4 | ___/___/___/___/___/___/___/___/___/___/___/___/___/___/___/___ | [352] | PGM 12 | ___/___/___/___/___/___/___/___/___/___/___/___/___/___/___/___ |
| [345] | PGM 5 | ___/___/___/___/___/___/___/___/___/___/___/___/___/___/___/___ | [353] | PGM 13 | ___/___/___/___/___/___/___/___/___/___/___/___/___/___/___/___ |
| [346] | PGM 6 | ___/___/___/___/___/___/___/___/___/___/___/___/___/___/___/___ | [354] | PGM 14 | ___/___/___/___/___/___/___/___/___/___/___/___/___/___/___/___ |
| [347] | PGM 7 | ___/___/___/___/___/___/___/___/___/___/___/___/___/___/___/___ | [355] | PGM 15 | ___/___/___/___/___/___/___/___/___/___/___/___/___/___/___/___ |
| [348] | PGM 8 | ___/___/___/___/___/___/___/___/___/___/___/___/___/___/___/___ | [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 | Section | User | Options |
|---------|----------------|-----------------|---------|---------|-----------------|
| [400] | Default option | 1 2 3 4 5 6 7 8 | [417] | User 17 | 1 2 3 4 5 6 7 8 |
| [401] | System master | ① ② ③ ④ ⑤ 6 7 8 | [418] | User 18 | 1 2 3 4 5 6 7 8 |
| [402] | Master 1 | ① 2 ③ ④ ⑤ 6 7 8 | [419] | User 19 | 1 2 3 4 5 6 7 8 |
| [403] | Master 2 | 1 ② ③ ④ ⑤ 6 7 8 | [420] | User 20 | 1 2 3 4 5 6 7 8 |
| [404] | User 4 | 1 2 3 4 5 6 7 8 | [421] | User 21 | 1 2 3 4 5 6 7 8 |
| [405] | User 5 | 1 2 3 4 5 6 7 8 | [422] | User 22 | 1 2 3 4 5 6 7 8 |
| [406] | User 6 | 1 2 3 4 5 6 7 8 | [423] | User 23 | 1 2 3 4 5 6 7 8 |
| [407] | User 7 | 1 2 3 4 5 6 7 8 | [424] | User 24 | 1 2 3 4 5 6 7 8 |
| [408] | User 8 | 1 2 3 4 5 6 7 8 | [425] | User 25 | 1 2 3 4 5 6 7 8 |
| [409] | User 9 | 1 2 3 4 5 6 7 8 | [426] | User 26 | 1 2 3 4 5 6 7 8 |
| [410] | User 10 | 1 2 3 4 5 6 7 8 | [427] | User 27 | 1 2 3 4 5 6 7 8 |
| [411] | User 11 | 1 2 3 4 5 6 7 8 | [428] | User 28 | 1 2 3 4 5 6 7 8 |
| [412] | User 12 | 1 2 3 4 5 6 7 8 | [429] | User 29 | 1 2 3 4 5 6 7 8 |
| [413] | User 13 | 1 2 3 4 5 6 7 8 | [430] | User 30 | 1 2 3 4 5 6 7 8 |
| [414] | User 14 | 1 2 3 4 5 6 7 8 | [431] | User 31 | 1 2 3 4 5 6 7 8 |
| [415] | User 15 | 1 2 3 4 5 6 7 8 | [432] | User 32 | 1 2 3 4 5 6 7 8 |
| [416] | User 16 | 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 |
|---------|---------------|---------|------------------------|
| [471] | System master | ___/___ | ___/___ |
| [472] | Master 1 | ___/___ | ___/___ |
| [473] | Master 2 | ___/___ | ___/___ |
| [474] | User 4 | ___/___ | ___/___ |
| [475] | User 5 | ___/___ | ___/___ |
| [476] | User 6 | ___/___ | ___/___ |
| [477] | User 7 | ___/___ | ___/___ |
| [478] | User 8 | ___/___ | ___/___ |
| [479] | User 9 | ___/___ | ___/___ |
| [480] | User 10 | ___/___ | ___/___ |
| [481] | User 11 | ___/___ | ___/___ |
| [482] | User 12 | ___/___ | ___/___ |
| [483] | User 13 | ___/___ | ___/___ |
| [484] | User 14 | ___/___ | ___/___ |
| [485] | User 15 | ___/___ | ___/___ |
| [486] | User 16 | ___/___ | ___/___ |

| Section | User | Arming | Disarming/Cancel Alarm |
|---------|---------|---------|------------------------|
| [487] | User 17 | ___/___ | ___/___ |
| [488] | User 18 | ___/___ | ___/___ |
| [489] | User 19 | ___/___ | ___/___ |
| [490] | User 20 | ___/___ | ___/___ |
| [491] | User 21 | ___/___ | ___/___ |
| [492] | User 22 | ___/___ | ___/___ |
| [493] | User 23 | ___/___ | ___/___ |
| [494] | User 24 | ___/___ | ___/___ |
| [495] | User 25 | ___/___ | ___/___ |
| [496] | User 26 | ___/___ | ___/___ |
| [497] | User 27 | ___/___ | ___/___ |
| [498] | User 28 | ___/___ | ___/___ |
| [499] | User 29 | ___/___ | ___/___ |
| [500] | User 30 | ___/___ | ___/___ |
| [501] | User 31 | ___/___ | ___/___ |
| [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 |
|---------|------|---|
| [511] | 1 | ___/___/___/___/___/___/___/___/___/___/___/___/___/___ |
| [512] | 2 | ___/___/___/___/___/___/___/___/___/___/___/___/___/___ |
| [513] | 3 | ___/___/___/___/___/___/___/___/___/___/___/___/___/___ |
| [514] | 4 | ___/___/___/___/___/___/___/___/___/___/___/___/___/___ |
| [515] | 5 | ___/___/___/___/___/___/___/___/___/___/___/___/___/___ |
| [516] | 6 | ___/___/___/___/___/___/___/___/___/___/___/___/___/___ |
| [517] | 7 | ___/___/___/___/___/___/___/___/___/___/___/___/___/___ |
| [518] | 8 | ___/___/___/___/___/___/___/___/___/___/___/___/___/___ |
| [519] | 9 | ___/___/___/___/___/___/___/___/___/___/___/___/___/___ |
| [520] | 10 | ___/___/___/___/___/___/___/___/___/___/___/___/___/___ |
| [521] | 11 | ___/___/___/___/___/___/___/___/___/___/___/___/___/___ |
| [522] | 12 | ___/___/___/___/___/___/___/___/___/___/___/___/___/___ |
| [523] | 13 | ___/___/___/___/___/___/___/___/___/___/___/___/___/___ |
| [524] | 14 | ___/___/___/___/___/___/___/___/___/___/___/___/___/___ |
| [525] | 15 | ___/___/___/___/___/___/___/___/___/___/___/___/___/___ |
| [526] | 16 | ___/___/___/___/___/___/___/___/___/___/___/___/___/___ |
| [527] | 17 | ___/___/___/___/___/___/___/___/___/___/___/___/___/___ |
| [528] | 18 | ___/___/___/___/___/___/___/___/___/___/___/___/___/___ |
| [529] | 19 | ___/___/___/___/___/___/___/___/___/___/___/___/___/___ |
| [530] | 20 | ___/___/___/___/___/___/___/___/___/___/___/___/___/___ |
| [531] | 21 | ___/___/___/___/___/___/___/___/___/___/___/___/___/___ |
| [532] | 22 | ___/___/___/___/___/___/___/___/___/___/___/___/___/___ |
| [533] | 23 | ___/___/___/___/___/___/___/___/___/___/___/___/___/___ |
| [534] | 24 | ___/___/___/___/___/___/___/___/___/___/___/___/___/___ |
| [535] | 25 | ___/___/___/___/___/___/___/___/___/___/___/___/___/___ |
| [536] | 26 | ___/___/___/___/___/___/___/___/___/___/___/___/___/___ |
| [537] | 27 | ___/___/___/___/___/___/___/___/___/___/___/___/___/___ |
| [538] | 28 | ___/___/___/___/___/___/___/___/___/___/___/___/___/___ |
| [539] | 29 | ___/___/___/___/___/___/___/___/___/___/___/___/___/___ |
| [540] | 30 | ___/___/___/___/___/___/___/___/___/___/___/___/___/___ |
| [541] | 31 | ___/___/___/___/___/___/___/___/___/___/___/___/___/___ |
| [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 **BY P** 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 **BY P** 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 | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2 | Repeater 2 supervision | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3 | Wireless siren 1 supervision | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 4 | Wireless siren 2 supervision | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5 | Wireless siren 3 supervision | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 6 | Wireless siren 4 supervision | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 8 | Live display mode | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

▲ = 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 | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2 | Keypad 2 supervision | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3 | Keypad 3 supervision | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 4 | Keypad 4 supervision | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5 | Keypad 5 supervision | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 6 | Keypad 6 supervision | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 7 | Keypad 7 supervision | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 8 | Keypad 8 supervision | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

▲ = 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 | Option | Description |
|--------|----------------------------------|--------|----------------------------------|
| Sleep | Empty/button disabled | 8 | Panic 1 |
| 1 | Regular/regular force arming | 9 | Panic 2 |
| 2 | Stay/stay force arming | A | Panic 3 |
| 3 | - | B | PGM activation (event group 8)* |
| 4 | Sleep/sleep force arming | C | PGM activation (event group 9)* |
| 5 | PGM activation (event group 22)* | D | PGM activation (event group 10)* |
| 6 | PGM activation (event group 23)* | E | PGM activation (event group 11)* |
| 7 | Activate window mode (StayD) | 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.

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

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

▲ = Default

*All numbers from 000000 to 999999 are valid giving a total of 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 | <input type="checkbox"/> Enabled | |
| | 2 | ATZ wiring options | ▲ | Series | <input type="checkbox"/> Parallel | |
| | 3 | Tamper recognition | (see table 27 for details) | | | |
| | 4 | | | | | |
| | 5 | Generate tamper on bypassed zone | <input type="checkbox"/> | No | ▲ | Yes |
| | 6 | Supervision options | (see table 27 for details) | | | |
| | 7 | | | | | |
| | 8 | Generate supervision on bypassed zone | <input type="checkbox"/> | 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 | <input type="checkbox"/> 80 minutes |
| | 2 | EOL resistors (applies to all hardwired zones – panel, keypad, ZX8) | ▲ | Disabled | <input type="checkbox"/> Enabled |
| | 3 | Zone input 1 becomes a two-wire smoke input (except SP4000, SP5500, and SP65) | ▲ | Disabled | <input type="checkbox"/> Enabled |
| | 4 | ZX8 ID A (panel + 1) input 1 | ▲ | Zone input | <input type="checkbox"/> Tamper input |
| | 5 | ZX8 ID B (panel + 9) input 1 | ▲ | Zone input | <input type="checkbox"/> Tamper input |
| | 6 | ZX8 ID C (panel + 17) input 1 | ▲ | Zone input | <input type="checkbox"/> 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 | <input type="checkbox"/> Enter code |
| | 2 | Enter code to view alarm in memory/event list | ▲ One-touch | <input type="checkbox"/> Enter code |
| | 3 | Trouble latch | ▲ Disabled | <input type="checkbox"/> Enabled |
| | 4 | Bell squawk on Installer in | ▲ Disabled | <input type="checkbox"/> Enabled |
| | 5 | Acknowledge trouble(s) before arming | ▲ Disabled | <input type="checkbox"/> Enabled |
| | 6 | Do not arm if zone opens during exit delay | ▲ Disabled | <input type="checkbox"/> Enabled |
| | 7 | Disable 'Bypass and Arm' | ▲ Disabled | <input type="checkbox"/> 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 | Section | Data | Description |
|---------|--------------------------------|---|---------|--------------------------------|---|
| [710] | ___/___/___ 000 to 255 seconds | Entry delay 1* (default: 045) | [718] | ___/___/___ 000 to 255 seconds | Remote panic disarm lock delay (default: 000) |
| [711] | ___/___/___ 000 to 255 seconds | Entry delay 2* (default: 045) | [719] | ___/___/___ 000 to 255 days | Closing delinquency delay (default: 000) |
| [712] | ___/___/___ 000 to 015 | Auto-zone shutdown counter (default: 005) | [720] | ___/___/___ 000 to 255 seconds | Flex-instant delay (default: 015) |
| [713] | ___/___/___ 000 to 255 seconds | Intellizone delay (default: 048) | [721] | ___/___/___ 000 to 255 seconds | For StayD: re-arm delay (default: 005) |
| [714] | ___/___/___ 000 to 255 minutes | Recycle alarm delay (default: 000) | [722] | ___/___/___ 000 to 255 times | Auto trouble shutdown** (default: 000) |
| [715] | ___/___/___ 000 to 255 | Recycle alarm counter (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 | <input type="checkbox"/> 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 | Input Value | Country |
|-------------|--|-------------|-----------------------|
| 00 | Mexico; St. Johns; Bahamas; Turks and Caicos | 10 | Chatham |
| 01 | Cuba | 11 | Tonga |
| 02 | Brazil | 12 | Iraq; Syria |
| 03 | Chile | 13 | Israel |
| 04 | Falkland Islands | 14 | Lebanon; Kyrgyzstan |
| 05 | Paraguay | 15 | Palestine |
| 06 | European Union; United Kingdom; Greenland | 16 | Egypt |
| 07 | Russia and surrounding countries | 17 | Namibia |
| 08 | South Australia; Victoria; Australian Capital Territory; New South Wales | 18 | Canada; United States |
| 09 | Tasmania; Lord Howe Island | 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 starting 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 | | |
|---------------|-------------|--|--------------------------|-----------------------------|----------------------------------|-----------------------------|
| | | OFF | ON | OFF | ON | |
| Section [741] | 1 | Auto-arm on time | ▲ | Disabled | <input type="checkbox"/> Enabled | |
| | 2 | Auto-arm on no movement | ▲ | Disabled | <input type="checkbox"/> Enabled | |
| | 3 & 4 | Auto-arm arming mode | <input type="checkbox"/> | See options 3 & 4, on right | <input type="checkbox"/> | See options 3 & 4, on right |
| | 5 | Switch to stay arming, if no entry zone is opened | ▲ | Disabled | <input type="checkbox"/> Enabled | |
| | 6 | Follow zones become entry delay 2, when delay zone is bypassed | ▲ | Disabled | <input type="checkbox"/> Enabled | |

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

▲= Default

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

| Option | Description | OFF | | ON | |
|--------|--|--------|-----------------------------|--------|-----------------------------|
| | | Symbol | Text | Symbol | Text |
| 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 3 | Option 4 | Description |
|----------|----------|-------------------|
| 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 | __/_/__/__/__/__/__/__/__/__/__/__/__/__/__/ |
| [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 | | Option | Description |
|--------|--|--------------------------|-----------------------------|--------------------------|-----------------------------|--------|-------------|
| | | <input type="checkbox"/> | See options 1 & 2, on right | <input type="checkbox"/> | See options 1 & 2, on right | | |
| 1 & 2 | Telephone line monitoring | <input type="checkbox"/> | See options 1 & 2, on right | <input type="checkbox"/> | See options 1 & 2, on right | 1 | 2 |
| 3 | Switch to pulse on fifth attempt | ▲ | Disabled | <input type="checkbox"/> | Enabled | OFF | OFF |
| 4 | Alternate dial | ▲ | Disabled | <input type="checkbox"/> | Enabled | OFF | ON |
| 5 | Force dial (must be enabled to comply with TBR-21) | <input type="checkbox"/> | Disabled | ▲ | Enabled | ON | OFF |
| 6 | DTMF dialing | <input type="checkbox"/> | Disabled | ▲ | Enabled | ON | ON |
| 7 | Pulse ratio | <input type="checkbox"/> | 1:2 | ▲ | 1:1.5 | ON | ON |
| 8 | Reporting* | ▲ | Dialer activated | <input type="checkbox"/> | No dialer | | |

▲ = 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 | |
|--------|---|--------------------------|-------------------------|--------------------------|---------------------------------|
| | | <input type="checkbox"/> | Always | ▲ | After alarm |
| 1 | Report system disarming | <input type="checkbox"/> | Always | ▲ | After alarm |
| 2 | Report zone restore | ▲ | Bell cutoff | <input type="checkbox"/> | Zone closure |
| 3 & 4 | Auto-test report transmission | <input type="checkbox"/> | See table 37 on page 42 | <input type="checkbox"/> | See table 37 on page 42 |
| 5 | Contact ID override | ▲ | Disabled | <input type="checkbox"/> | CID defaults/slow format custom |
| 6 | Bell squawk upon alarm report confirmation (SP4000 and SP65 only) | <input type="checkbox"/> | Disabled | ▲ | Enabled |
| 7 | Bell squawk upon arming report confirmation (SP4000 and SP65 only) | ▲ | Disabled | <input type="checkbox"/> | Enabled |
| 8 | Keypad beeps upon arming report confirmation (SP4000 and SP65 only) | <input type="checkbox"/> | 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 | | Option | Description | OFF | ON | | | |
|---|--------|---|--------------------------|----------|--------------------------|---------|---|---|--------------------------|----------|--------------------------|---------|
| Section [802] Event Call Direction Options 1 | 1 | Call tel. #1/monitoring rcvr. #1 for arm/disarm report codes | <input type="checkbox"/> | Disabled | ▲ | Enabled | 1 | Call tel. #1/monitoring rcvr. #1 for tamper/restore report codes | <input type="checkbox"/> | Disabled | ▲ | Enabled |
| | 2 | Call tel. #2/monitoring rcvr. #2 for arm/disarm report codes | <input type="checkbox"/> | Disabled | ▲ | Enabled | 2 | Call tel. #2/monitoring rcvr. #2 for tamper/restore report codes | <input type="checkbox"/> | Disabled | ▲ | Enabled |
| | 3 | Call pager for arm/disarm report codes | ▲ | Disabled | <input type="checkbox"/> | Enabled | 3 | Call pager for tamper/restore report codes | ▲ | Disabled | <input type="checkbox"/> | Enabled |
| | 5 | Call tel. #1/monitoring rcvr. #1 for alarm/restore report codes | <input type="checkbox"/> | Disabled | ▲ | Enabled | 5 | Call tel. #1/monitoring rcvr. #1 for trouble/restore report codes | <input type="checkbox"/> | Disabled | ▲ | Enabled |
| | 6 | Call tel. #2/monitoring rcvr. #2 for alarm/restore report codes | <input type="checkbox"/> | Disabled | ▲ | Enabled | 6 | Call tel. #2/monitoring rcvr. #2 for trouble/restore report codes | <input type="checkbox"/> | Disabled | ▲ | Enabled |
| | 7 | Call pager for alarm/restore report codes | <input type="checkbox"/> | Disabled | ▲ | Enabled | 7 | Call pager for trouble/restore report codes | ▲ | Disabled | <input type="checkbox"/> | Enabled |
| Section [804] Event Call Direction Options 3 | 1 | Call tel. #1/monitoring rcvr. #1 for special report codes | <input type="checkbox"/> | Disabled | ▲ | Enabled | Section [803] Event Call Direction Options 2 | | | | | |
| | 2 | Call tel. #2/monitoring rcvr. #2 for special report codes | <input type="checkbox"/> | Disabled | ▲ | Enabled | | | | | | |
| | 3 | Call pager for special report codes | ▲ | Disabled | <input type="checkbox"/> | Enabled | | | | | | |
| | 5 | Call personal tel. # on zone alarm (burglary/fire) | <input type="checkbox"/> | Disabled | ▲ | Enabled | | | | | | |
| | 6 | Call personal tel. # on panic alarms | <input type="checkbox"/> | Disabled | ▲ | Enabled | | | | | | |
| | 7 | Call personal tel. # on paramedic alarms | <input type="checkbox"/> | Disabled | ▲ | Enabled | | | | | | |
| | 8 | Call personal tel. # on panel power trouble | ▲ | Disabled | <input type="checkbox"/> | Enabled | | | | | | |

▲ = Default

GSM Options

Table 39: Description of GSM options (PCS series)

| | Option | Description | OFF | | ON | | Option | | Primary | Backup | Option | | Description |
|---------------|--------|--------------------------------------|--------------------------|-----------------------------|--------------------------|-----------------------------|--------|-----|----------|----------|--------|-----|--|
| | 1 & 2 | 3 & 4 | 5 & 6 | 7 | 8 | 1 | 2 | 5 | | | 6 | | |
| Section [805] | 1 & 2 | GSM reporting | <input type="checkbox"/> | See options 1 & 2, on right | <input type="checkbox"/> | See options 1 & 2, on right | OFF | OFF | Landline | Landline | OFF | OFF | Disabled |
| | 3 & 4 | Future use | - | - | - | - | OFF | ON | Landline | GSM | OFF | ON | Trouble only |
| | 5 & 6 | GSM/GPRS no service trouble feedback | <input type="checkbox"/> | See options 5 & 6, on right | <input type="checkbox"/> | See options 5 & 6, on right | ON | OFF | GSM | Landline | ON | OFF | When disarmed: trouble only; when armed: audible alarm |
| | 7 | Future use | - | - | - | - | ON | ON | GSM | GSM | ON | ON | Silent alarm becomes audible alarm |
| | 8 | GSM RF jamming supervision | <input type="checkbox"/> | Disabled | ▲ | Enabled | | | | | | | |

▲ = Default

IP/GPRS Options

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

| | Option | Description | OFF | | ON | | Option | | Description |
|---------------|-------------|--------------------------------|--------------------------|-----------------------------|--------------------------|-------------------|--------|-----|--|
| | 5 & 6 | 7 | 8 | 5 | 6 | 5 | 6 | | |
| Section [806] | 5 & 6 | IP no service trouble feedback | ▲ | See options 5 & 6 | <input type="checkbox"/> | See options 5 & 6 | OFF | OFF | Disabled |
| | 7 | User dialer reporting | ▲ | As IP/GPRS reporting backup | <input type="checkbox"/> | Enabled | OFF | ON | Trouble only |
| | 8 | Enable IP/GPRS reporting | <input type="checkbox"/> | Disabled | ▲ | Enabled | ON | OFF | When disarmed: trouble only; when armed: audible alarm |
| | ▲ = Default | | | | | | | ON | ON |

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) |
| [851] | __/__/__ | 000 to 255 minutes | Armed report delay |
| [852] | __/__/__ | 000 to 255 minutes | Disarmed report delay |

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 |
| [856] | __/__/__ | 000 to 255 | SMS language (see table 42 for SMS language codes) |

Table 42: SMS language codes for GSM settings

| Input Value | SMS Language | Input Value | SMS Language | Input Value | SMS Language | Input Value | SMS Language | Input Value | SMS Language |
|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|
| 000 | English | 005 | Polish | 010 | Czech | 015 | Russian | 020 | Serbian |
| 001 | French | 006 | Portuguese | 011 | Dutch | 016 | Bulgarian | 021 to 255 | Future use |
| 002 | Spanish | 007 | German | 012 | Croatian | 017 | Romanian | | |
| 003 | Italian | 008 | Turkish | 013 | Greek | 018 | Slovak | | |
| 004 | Swedish | 009 | Hungarian | 014 | Hebrew | 019 | Chinese | | |

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 | Section | Data | Description | Section | Data | Description |
|---------|-------|----------------|---------|-------|-----------------------|---------|-------|---|
| [860] | __/__ | Auto-arming | [861] | __/__ | Quick arming | [862] | __/__ | Cancel auto-arm |
| | __/__ | Late to close | | __/__ | Arming via PC | | __/__ | Disarming via PC |
| | __/__ | No movement | | __/__ | Arming with keyswitch | | __/__ | Cancel alarm with user, or WinLoad/BabyWare |
| | __/__ | Partial arming | | __/__ | - | | __/__ | 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 | Section | Data | Description |
|---------|-------|-----------------|---------|-------|-----------------|
| [863] | __/__ | Emergency panic | [864] | __/__ | Zone shutdown |
| | __/__ | Auxiliary panic | | __/__ | Duress |
| | __/__ | Fire panic | | __/__ | Keypad lockout |
| | __/__ | Recent closing | | __/__ | 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 |
|---------|---------|----------------------------------|
| | ___/___ | Bell output overload |
| [866] | ___/___ | Bell output disconnected |
| | ___/___ | Timer loss |
| | ___/___ | Fire loop trouble |
| [869] | ___/___ | Wireless module supervision lost |
| | ___/___ | Wireless module tamper |
| | ___/___ | Remote low battery |
| | ___/___ | - |

| Section | Data | Description |
|---------|---------|---------------------|
| | ___/___ | Fail to communicate |
| [867] | ___/___ | 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 |
|---------|---------|--------------------------------|
| | ___/___ | TLM |
| [870] | ___/___ | 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 |
|---------|---------|-----------------------------------|
| | ___/___ | Bell output overload |
| [871] | ___/___ | Bell output disconnect |
| | ___/___ | Timer loss |
| | ___/___ | Fire loop trouble |
| [874] | ___/___ | Wireless module supervision lost* |
| | ___/___ | Wireless module tamper |
| | ___/___ | Remote low battery |
| | ___/___ | - |

| Section | Data | Description |
|---------|---------|---------------------|
| | ___/___ | Fail to communicate |
| [872] | ___/___ | 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 |
|---------|---------|--------------|
| | ___/___ | Cold start |
| [875] | ___/___ | Test report |
| | ___/___ | - |
| | ___/___ | Software out |

Default: FF

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

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

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 <i>Test Report</i> 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 |
| 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 |
| General Alarms (140) | 138 | Near alarm | 1B |
| | 139 | Intrusion verifier | 1C |
| | 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 |
| | 300 | System trouble | 39 |
| System Troubles (300 & 310) | 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 |
| 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 |
| System (460) | 458 | User on premises | A1 |
| | 459 | Recent close | A2 |
| | 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 |
| | 570 | Zone bypass | B5 |
| Bypasses (570) | 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 | Section | Data | Description | Section | Data | Description |
|---------|---------|-------------------------------------|---------|---------|---------------------------------|---------|---------|-----------------------------------|
| [879] | ___/___ | PCS series RF jam | [880] | ___/___ | - | [884] | ___/___ | GSM lost communication with panel |
| | ___/___ | PCS series no service | | ___/___ | IP100 no service | | ___/___ | - |
| | ___/___ | PCS series module supervision lost | | ___/___ | IP100 supervision lost | | ___/___ | - |
| | ___/___ | Receiver fail to communicate (GPRS) | | ___/___ | IP receiver fail to communicate | | ___/___ | - |

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 | Section | Data | Description |
|---------|---------|-------------------------------------|---------|---------|---------------------------------|
| [881] | ___/___ | PCS series RF jam | [882] | ___/___ | - |
| | ___/___ | PCS series no service | | ___/___ | IP100 no service |
| | ___/___ | PCS series module supervision lost | | ___/___ | IP100 supervision lost |
| | ___/___ | Receiver fail to communicate (GPRS) | | ___/___ | 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 | <input type="checkbox"/> Enabled |
| | 2 | Automatic event buffer transmission | ▲ Disabled | <input type="checkbox"/> 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., <i>internet.com</i>) | - |
| [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 0s before the first digit | - |
| [930] | __/__/__/__ | WAN1 IP port | 10000 |
| [931] | __/__/__ . __/__/__ . __/__/__ . __/__/__ | WAN2 IP address | - |
| [932] | __/__/__/__ | WAN2 IP port | 10000 |
| [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 | 10000 |
| [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 | 10000 |
| [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 | <input type="checkbox"/> Disabled | <input checked="" type="checkbox"/> Enabled |
| | 2 | Reset user labels | <input type="checkbox"/> Disabled | <input checked="" type="checkbox"/> Enabled |
| | 3 | Reset partition labels | <input type="checkbox"/> Disabled | <input checked="" type="checkbox"/> Enabled |
| | 4 | Reset PGM labels | <input type="checkbox"/> Disabled | <input checked="" type="checkbox"/> Enabled |
| | 5 | Reset bus module labels | <input type="checkbox"/> Disabled | <input checked="" type="checkbox"/> Enabled |
| | 6 | Reset wireless repeater and siren labels | <input type="checkbox"/> Disabled | <input checked="" type="checkbox"/> Enabled |
| | 7 | Reset wireless keypad, repeater, and siren labels | <input type="checkbox"/> Disabled | <input checked="" type="checkbox"/> 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 | | Option | Description | OFF | ON | | | |
|---------------|--------|---|--------------------------|----------|---|---------|-------------|---|--------------------------|----------|---|---------|
| Section [966] | 1 | Clear zone report codes | <input type="checkbox"/> | Disabled | ▲ | Enabled | 1 | Reset zone report codes to default | <input type="checkbox"/> | Disabled | ▲ | Enabled |
| | 2 | Clear user report codes | <input type="checkbox"/> | Disabled | ▲ | Enabled | 2 | Reset user report codes to default | <input type="checkbox"/> | Disabled | ▲ | Enabled |
| | 3 | Clear arm/disarm/alarm report codes | <input type="checkbox"/> | Disabled | ▲ | Enabled | 3 | Reset arm/disarm/alarm report codes to default | <input type="checkbox"/> | Disabled | ▲ | Enabled |
| | 4 | Clear trouble report codes | <input type="checkbox"/> | Disabled | ▲ | Enabled | 4 | Reset trouble report codes to default | <input type="checkbox"/> | Disabled | ▲ | Enabled |
| | 5 | Clear system special report codes | <input type="checkbox"/> | Disabled | ▲ | Enabled | 5 | Reset system special report codes to default | <input type="checkbox"/> | Disabled | ▲ | Enabled |
| | 6 | Clear report code for GSM lost communication with panel | <input type="checkbox"/> | Disabled | ▲ | Enabled | 6 | Reset report code for GSM lost communication with panel | <input type="checkbox"/> | 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 |

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 | כ | ל |
| [5] | מ | נ | ס |
| [6] | ע | פ | ק |
| [7] | ר | ש | ת |
| [8] | | | |
| [9] | | | |

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 |
| 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

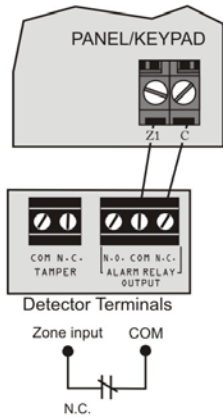
³ Requires modules V5.00 only

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

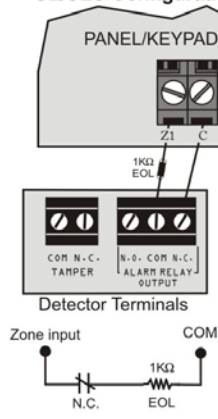
Hardware Connections

Single Zone Inputs

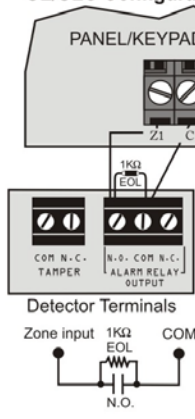
N.C. Contacts, No EOL



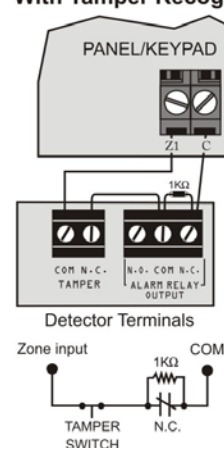
**N.C., With EOL
UL/ULC Configuration**



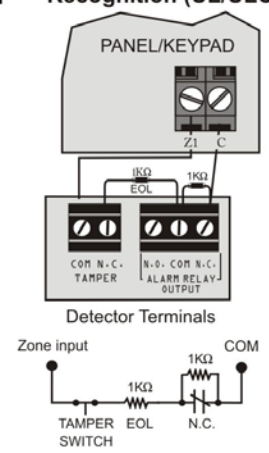
**N.O., With EOL
UL/ULC Configuration**



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



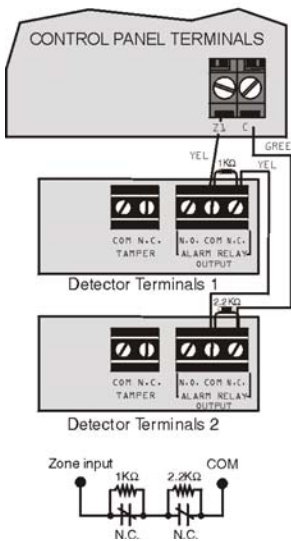
**N.C., With EOL, With
Tamper & Wire Fault
Recognition (UL/ULC)**



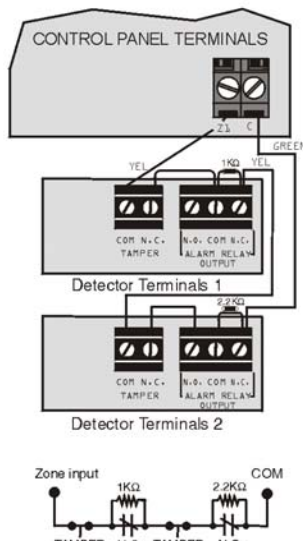
NOTE: Keyswitches are connected as standard zones and will follow ATZ options 1 and 2, programmed in section [705] (see page 37).

Advanced Technology Zone (ATZ) Connections

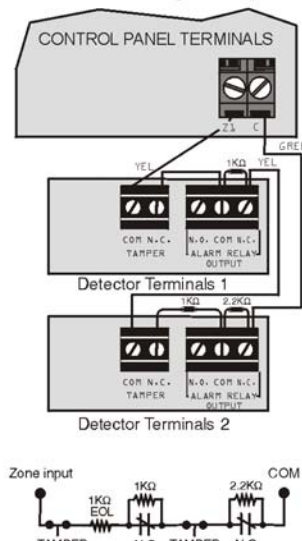
N.C. Contacts, No EOL



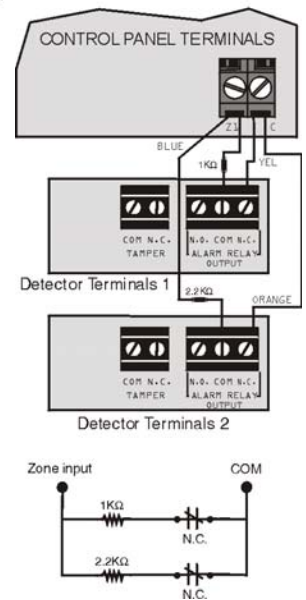
N.C. Contacts, No EOL, with Tamper Recognition



**N.C. Contacts, with EOL, with Tamper
and Wire Fault Recognition (UL/cUL)**

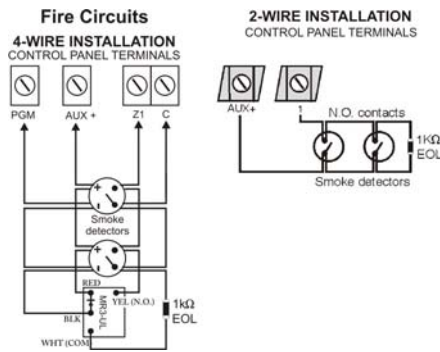


Parallel Wiring



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

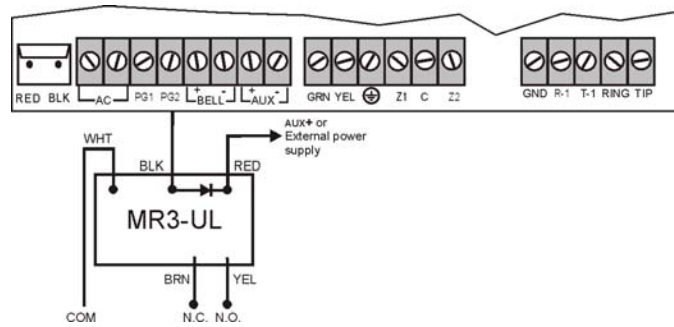
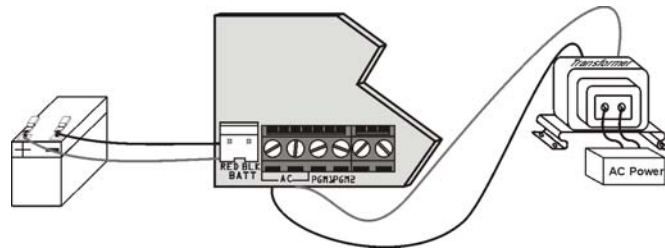


Table 57: PGM power sources

| Power Source | Description |
|-----------------------|---|
| AUX + terminal | <ul style="list-style-type: none"> 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 | <ul style="list-style-type: none"> 16 Vac 20 VA* (Amseco XP-1620) 16.5 Vac 40 VA (Universal UB1640W) <p>* not verified by UL</p> |
| DC power supply rate | <ul style="list-style-type: none"> MG5000/MG5050: 1.0A SP5500/SP6000/SP7000: 1.4A SP4000/SP65: 1.1A |
| Auxiliary supply rate | <ul style="list-style-type: none"> 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) | <ul style="list-style-type: none"> MG5000/MG5050: 350 mA / 700 mA SP5500/SP6000/SP7000: 350 mA / 700 mA SP4000/SP65: 1.1A |

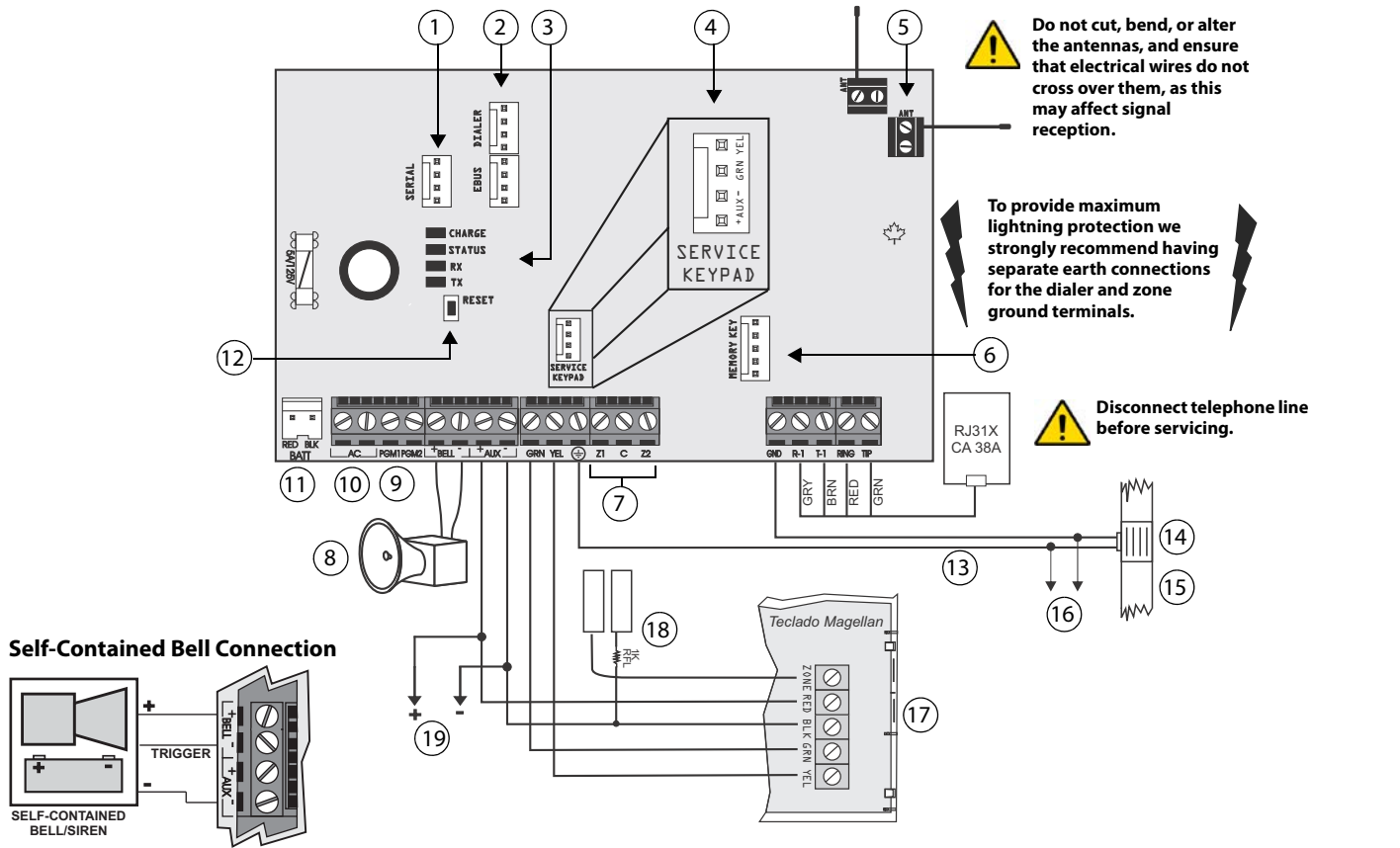
Demonstration or Emergency System Power-up without an AC Source

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

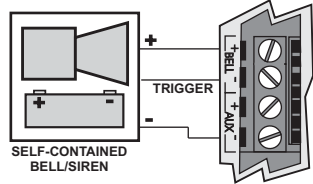


Do not cut, bend, or alter the antennas, and ensure that electrical wires do not cross over them, as this may affect signal reception.

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

Disconnect telephone line before servicing.

Self-Contained Bell Connection



- | | |
|--|---|
| <p>1 Used for connecting the IP100 Internet Module; also used for In-Field Firmware upgrade through a 307USB Direct Connect Interface</p> <p>2 EBUS and Dialer used with:</p> <ul style="list-style-type: none"> • VDMP3 Plug-in Voice Module for voice reporting • PCS Series GSM Communicator Module <p>3 LEDs</p> <p>Charge LED:</p> <ul style="list-style-type: none"> • Charging and battery test <p>Status LED:</p> <ul style="list-style-type: none"> • 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 <p>RX & TX LED:</p> <ul style="list-style-type: none"> • Flashes quickly when receiving or transmitting RF signals from wireless devices <p>4 Four-pin connector can be used for quick installation of a keypad</p> <p>5 Antennas</p> | <p>6 Paradox Memory Key (PMC-4, PMC5)</p> <p>7 Refer to <i>Hardware Connections</i> on page 59</p> <p>8 The BELL output will shutdown if the current exceeds 3A</p> <p>9 Refer to <i>Alarm Relay and PGM Connections</i> on page 60</p> <p>10 16.5 Vac (50 or 60 Hz), minimum 20 VA (40 VA recommended)</p> <p>11 Refer to <i>AC Power & Backup Battery Connections</i> on page 60</p> <p>12 Refer to <i>Panel Reset</i> on page 3</p> <p>13 AWG #14 single conductor solid copper wire</p> <p>14 Ground clamp</p> <p>15 Cold water pipe grounding</p> <p>16 To metallic enclosure</p> <p>17 For the keypad's zone configurations, see <i>Installer Quick Menu</i> on page 7</p> <p>18 If EOL is enabled, see section [706] option 2, on page 38; for the keypad's zone configurations, see <i>Installer Quick Menu</i> on page 7</p> <p>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</p> |
|--|---|



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.

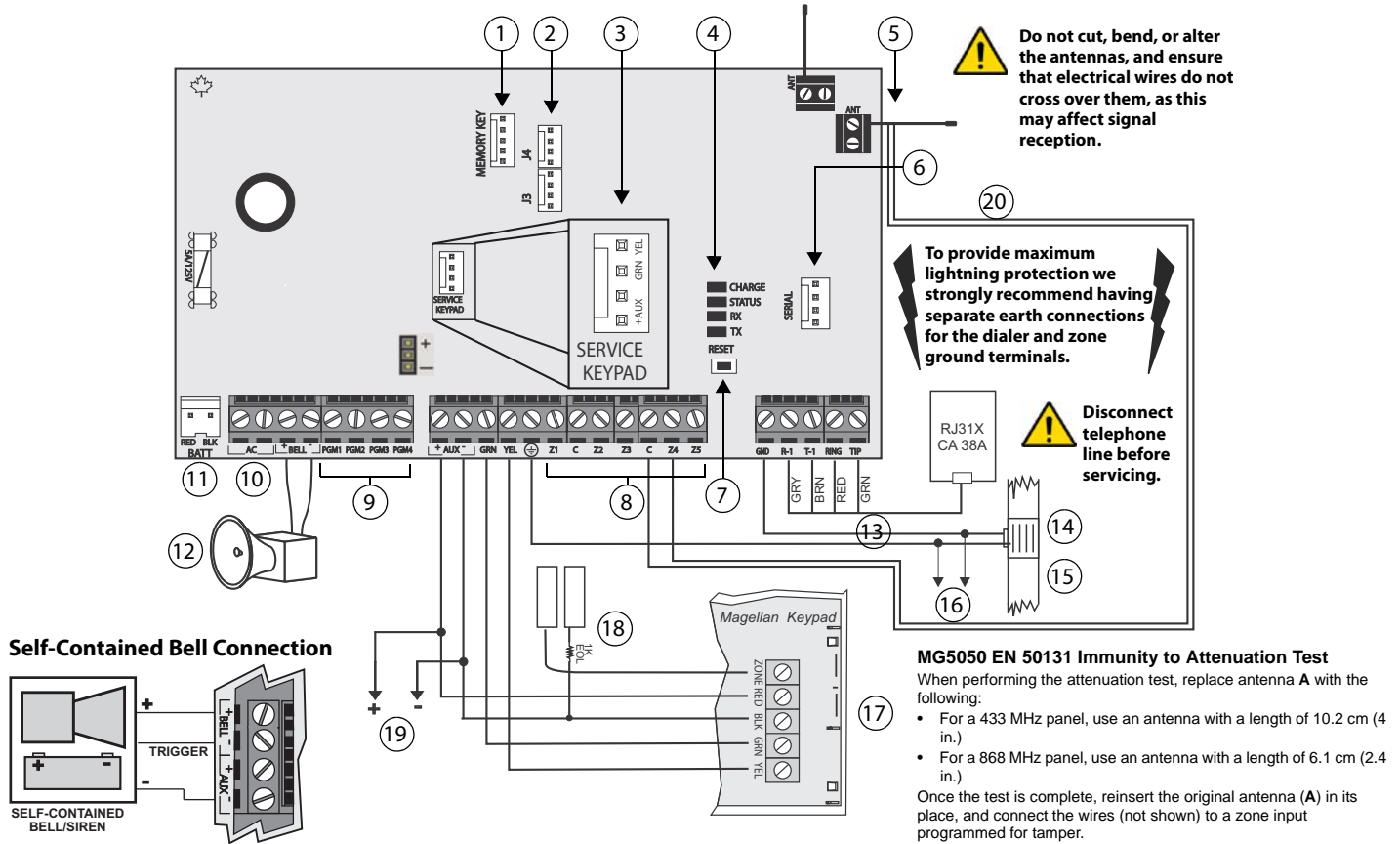
Max. number of keypads: 15 keypads

Max. aux. current: 700 mA

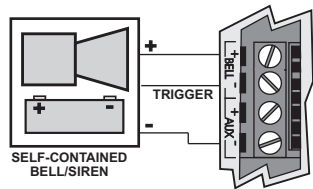
Max. distance of bus module from panel: 76 m (250 ft.)

Max. total run of wire: 230 m (750 ft.)

MG5050/MG5050E



Self-Contained Bell Connection



- | | |
|--|--|
| <p>1 Paradox Memory Key (PMC-4, PMC5)</p> <p>2 J3 (EBUS) and J4 (DIALER) used with:</p> <ul style="list-style-type: none"> • VDMP3 Plug-in Voice Module for voice reporting • PCS Series GSM Communicator Module <p>3 Four-pin connector can be used for quick installation of a keypad</p> <p>4 LEDs Charge LED:</p> <ul style="list-style-type: none"> • Charging and battery test <p>Status LED:</p> <ul style="list-style-type: none"> • 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 <p>RX & TX LED:</p> <ul style="list-style-type: none"> • Flashes quickly when receiving or transmitting RF signals from wireless devices | <p>5 Antennas</p> <p>6 Used for connecting the IP100 Internet Module; also used for In-Field Firmware upgrade through a 307USB Direct Connect Interface</p> <p>7 Refer to <i>Panel Reset</i> on page 3</p> <p>8 Refer to <i>Hardware Connections</i> on page 59</p> <p>9 Refer to <i>Alarm Relay and PGM Connections</i> on page 60 NOTE: +/- trigger on PGM4 only</p> <p>10 16.5 Vac (50 or 60 Hz), minimum 20 VA (40 VA recommended)</p> <p>11 Refer to <i>AC Power & Backup Battery Connections</i> on page 60</p> <p>12 The BELL output will shutdown if the current exceeds 3A</p> <p>13 AWG #14 single conductor solid copper wire</p> <p>14 Ground clamp</p> <p>15 Cold water pipe grounding</p> <p>16 To metallic enclosure</p> <p>17 For the keypad's zone configurations, see <i>Installer Quick Menu</i> on page 7</p> <p>18 If EOL is enabled, see section [706] option 2, on page 38; for the keypad's zone configurations, see <i>Installer Quick Menu</i> on page 7</p> <p>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</p> <p>20 Tamper antenna (for EN 50131)</p> |
|--|--|



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.

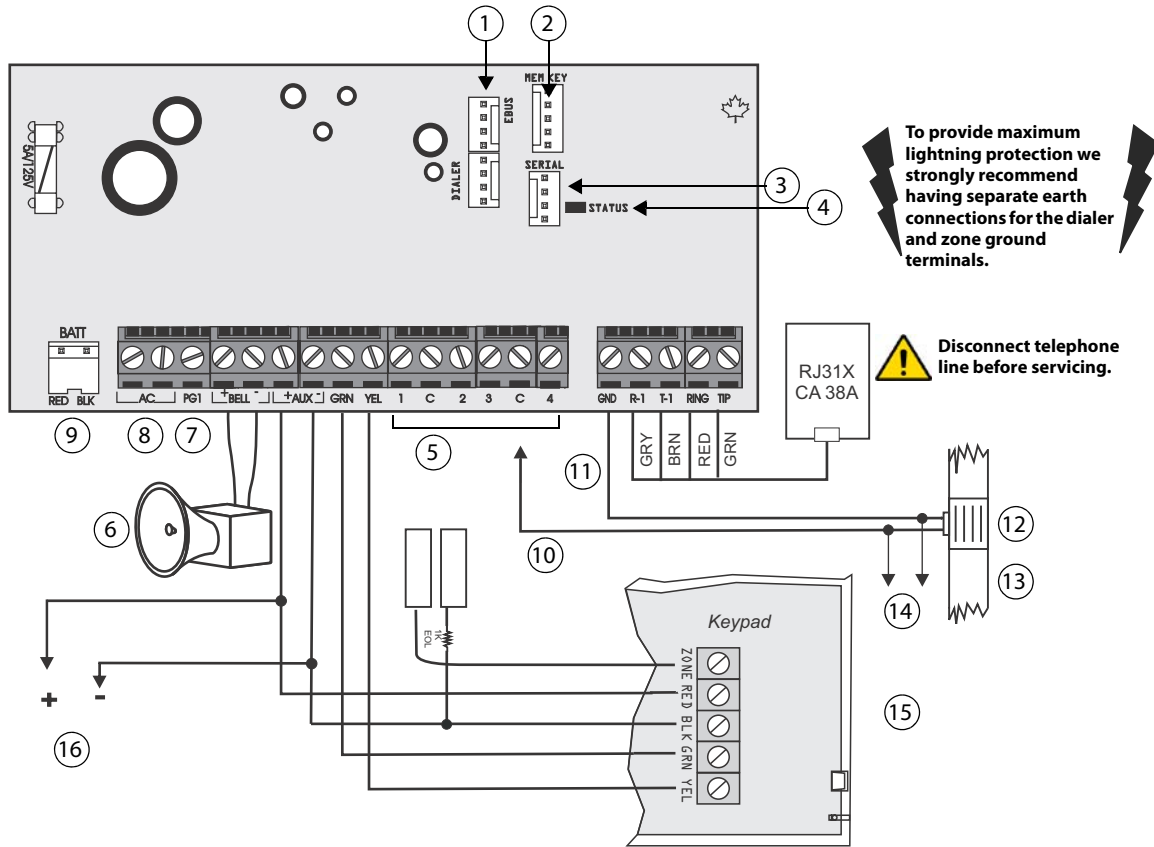
Max. number of keypads: 15 keypads

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.

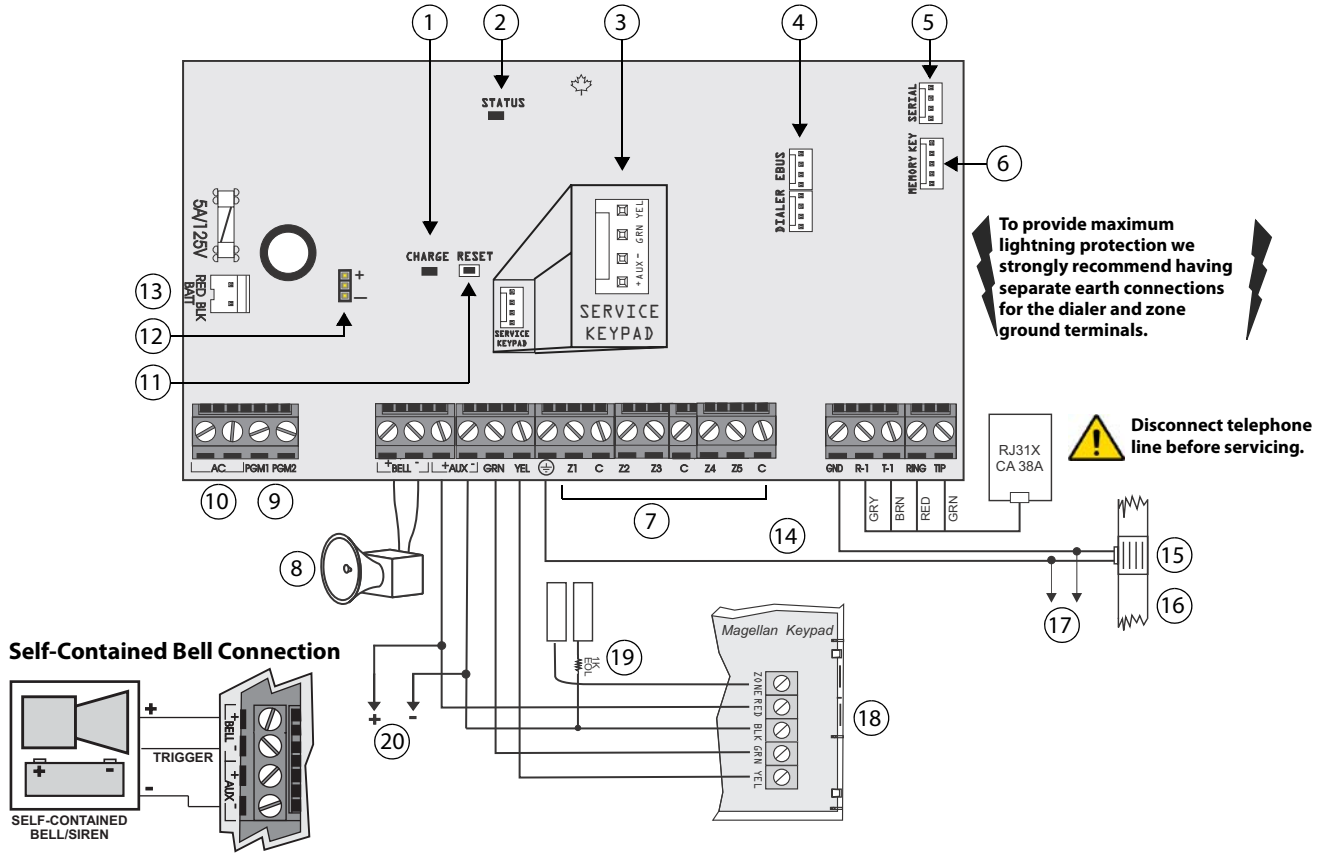
Max. number of keypads: 15 keypads

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



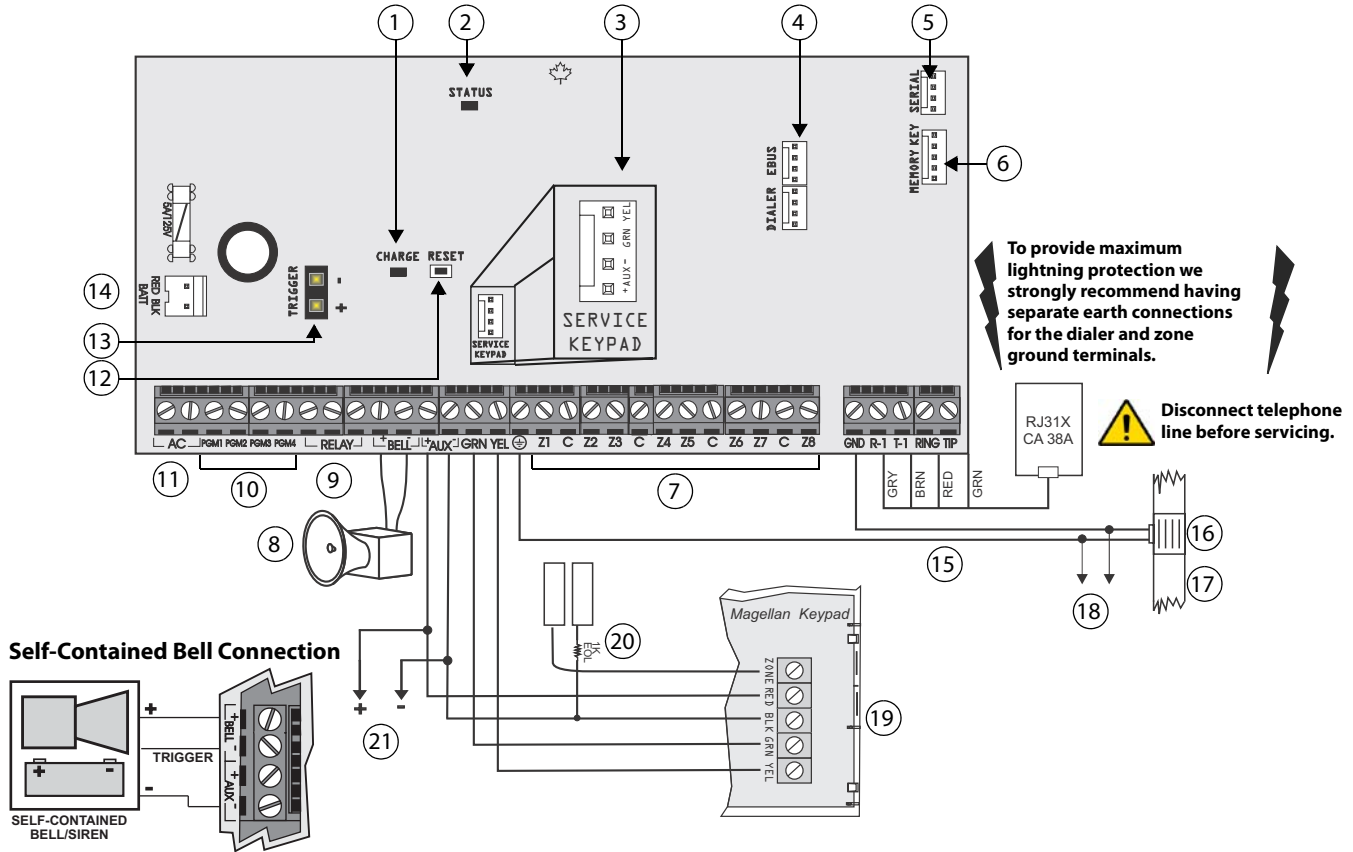
The sum of the current drawn from the BELL and AUX must be limited to 1.3A. Exceeding this limit will overload the panel power supply and lead to complete system shutdown.

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



- | | |
|--|--|
| <p>1 Charge LED:</p> <ul style="list-style-type: none"> • Charging and battery test <p>2 Status LED:</p> <ul style="list-style-type: none"> • 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 <p>3 Four-pin connector can be used for quick installation of a keypad</p> <p>4 EBUS and Dialer used with:</p> <ul style="list-style-type: none"> • VDMP3 Plug-in Voice Module for voice reporting • PCS Series GSM Communicator Module <p>5 Used for connecting the IP100 Internet Module; also used for In-Field Firmware upgrade through a 307USB Direct Connect Interface</p> <p>6 Paradox Memory Key (PMC-4, PMC5)</p> <p>7 Refer to <i>Hardware Connections</i> on page 59</p> <p>8 The BELL output will shutdown if the current exceeds 3A</p> <p>9 Programmable output relay: max. 5A @ 60 Vdc or 120 Vac</p> <p>10 Refer to <i>Alarm Relay and PGM Connections</i> on page 60</p> | <p>11 16.5 Vac (50 or 60 Hz), minimum 20 VA (40 VA recommended)</p> <p>12 Refer to <i>Panel Reset</i> on page 3</p> <p>13 PGM trigger: this jumper allows you to choose whether the solid state relay PGMs are grounded (-) or give out 12V (+)</p> <p>14 Refer to <i>AC Power & Backup Battery Connections</i> on page 60</p> <p>15 AWG #14 single conductor solid copper wire</p> <p>16 Ground clamp</p> <p>17 Cold water pipe grounding</p> <p>18 To metallic enclosure</p> <p>19 For the keypad's zone configurations, see <i>Installer Quick Menu</i> on page 7</p> <p>20 If EOL is enabled, see section [706] option 2, on page 38; for the keypad's zone configurations, see <i>Installer Quick Menu</i> on page 7</p> <p>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</p> |
|--|--|



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.

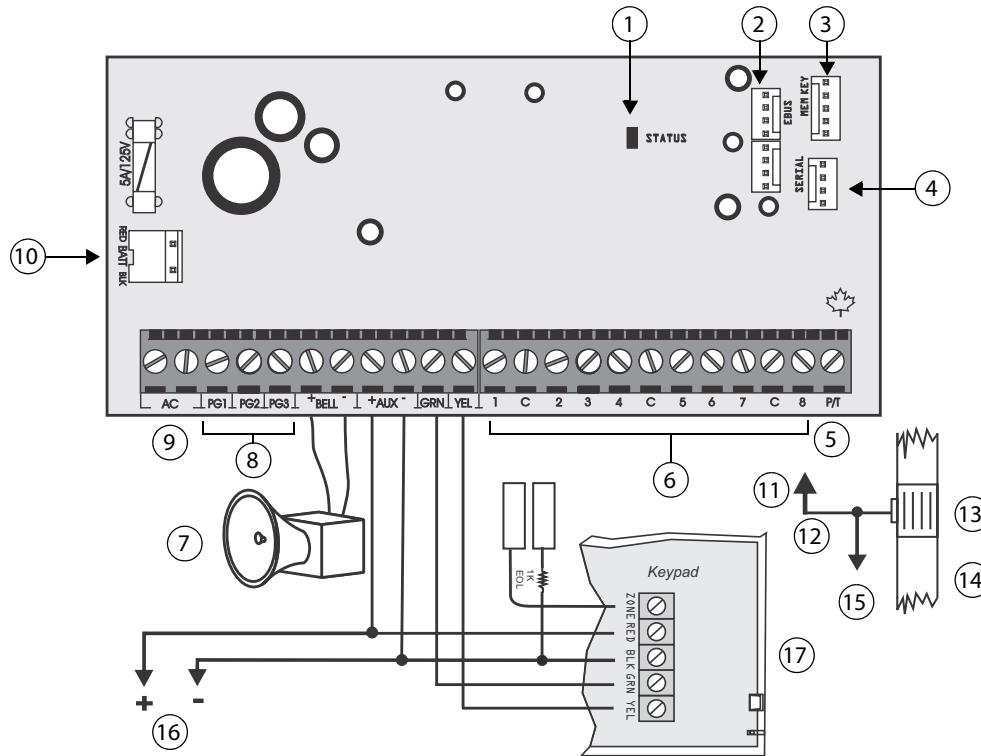
40 VA transformer strongly recommended.

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



- | | |
|--|---|
| <p>1 Status LED:</p> <ul style="list-style-type: none"> • Flash once every second: Normal • Flashes ON 1 sec. and OFF 1 sec.: Any trouble • Always ON: Panel is using phone line <p>Fast flash 6 seconds after power-up: Installer lock enabled</p> <p>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 VDM3 Plug-in Voice Module.</p> <p>3 Paradox Memory Key (PMC-4, PMC5)</p> <p>4 Used for connecting the IP100 Internet Module; also used for In-Field Firmware upgrade through a 307USB Direct Connect Interface</p> <p>5 Panic/tamper input</p> <p>6 Refer to <i>Hardware Connections</i> on page 59</p> <p>7 The BELL output will shutdown if the current exceeds 3A</p> <p>8 Refer to <i>Alarm Relay and PGM Connections</i> on page 60</p> | <p>9 16.5 Vac (50 or 60 Hz), minimum 20 VA (40 VA recommended)</p> <p>10 Refer to <i>AC Power & Backup Battery Connections</i> on page 60</p> <p>11 Connect to any common input</p> <p>12 AWG #14 single conductor solid copper wire</p> <p>13 Ground clamp</p> <p>14 Cold water pipe grounding</p> <p>15 To metallic enclosure</p> <p>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</p> <p>17 For the keypad's zone configurations, see <i>Installer Quick Menu</i> on page 7; If EOL is enabled, see section [706] option 2, on page 38</p> |
|--|---|

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.

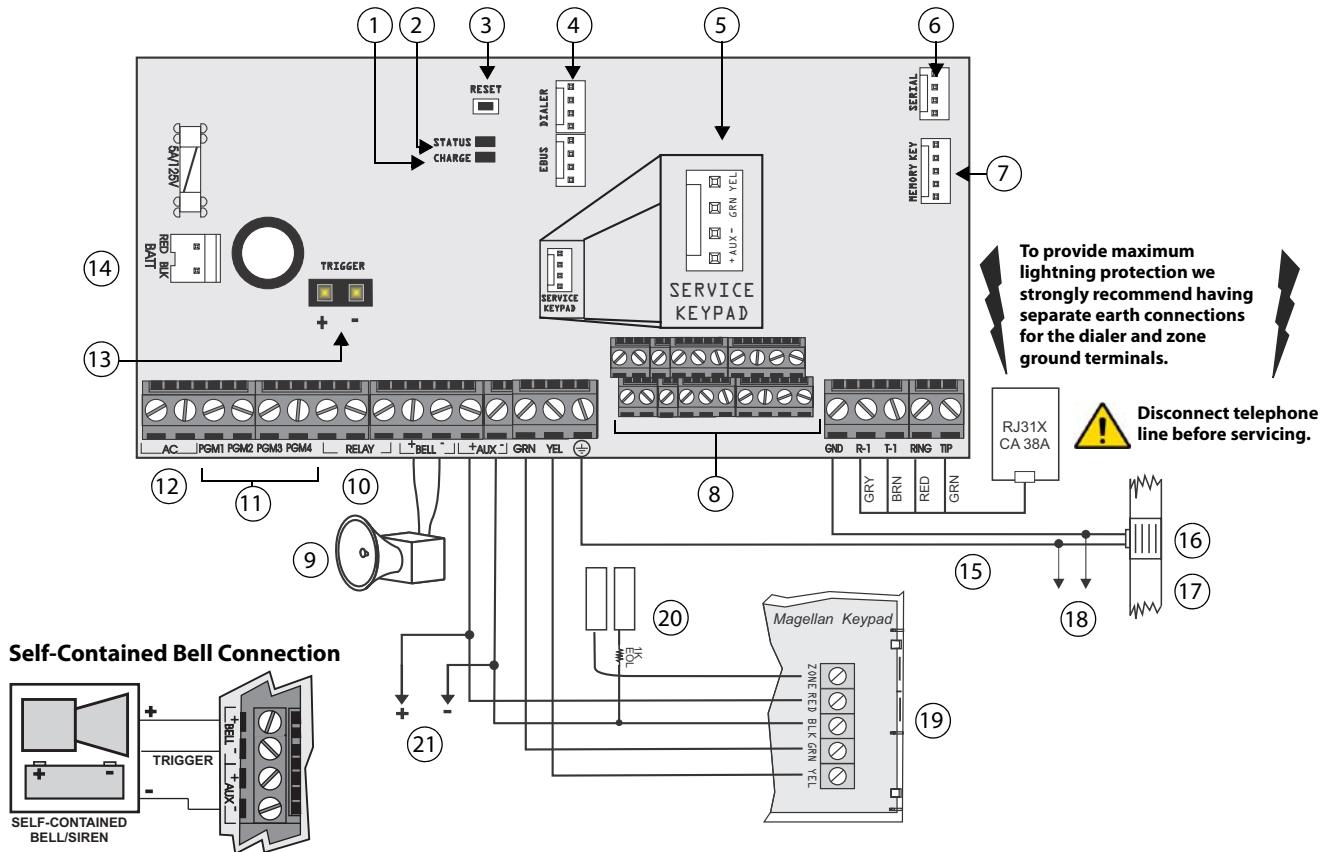
Max. number of keypads: 15 keypads

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



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

Disconnect telephone line before servicing.

- | | |
|---|---|
| <p>1 Charge LED:</p> <ul style="list-style-type: none"> • Charging and battery test <p>2 Status LED:</p> <ul style="list-style-type: none"> • 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 <p>3 Refer to <i>Panel Reset</i> on page 3</p> <p>4 EBUS and Dialer used with:</p> <ul style="list-style-type: none"> • VDMP3 Plug-in Voice Module for voice reporting • PCS Series GSM Communicator Module <p>5 Four-pin connector can be used for quick installation of a keypad</p> <p>6 Used for connecting the IP100 Internet Module; also used for In-Field Firmware upgrade through a 307USB Direct Connect Interface</p> <p>7 Paradox Memory Key (PMC-4, PMC5)</p> <p>8 Refer to <i>Hardware Connections</i> on page 59</p> <p>9 The BELL output will shutdown if the current exceeds 3A</p> <p>10 Programmable output relay: max. 5A @ 60 Vdc or 120 Vac</p> | <p>11 Refer to <i>Alarm Relay and PGM Connections</i> on page 60</p> <p>12 16.5 Vac (50 or 60 Hz), minimum 20 VA (40 VA recommended)</p> <p>13 PGM trigger: this jumper allows you to choose whether the solid state relay PGMs are grounded (-) or give out 12V (+)</p> <p>14 Refer to <i>AC Power & Backup Battery Connections</i> on page 60</p> <p>15 AWG #14 single conductor solid copper wire</p> <p>16 Ground clamp</p> <p>17 Cold water pipe grounding</p> <p>18 To metallic enclosure</p> <p>19 For the keypad's zone configurations, see <i>Installer Quick Menu</i> on page 7</p> <p>20 If EOL is enabled, see section [706] option 2, on page 38; for the keypad's zone configurations, see <i>Installer Quick Menu</i> on page 7</p> <p>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</p> |
|---|---|



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 (MG5050 version 4.96 or higher).

NOTE: The Installer Quick Menu is not available anymore for MG5050 V4.96 or higher.

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

Table 59: Description of section [700]

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

Table 60: Description of section [703]

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

ATZ Options

Table 61: Description of section [705]

| Section | Option | Description | OFF | | ON | |
|---------------|--------|---|--------------------------|----------|--------------------------|----------|
| | | | Symbol | Label | Symbol | Label |
| Section [705] | 1 | ATZ zone doubling | ▲ | Disabled | <input type="checkbox"/> | Enabled |
| | 2 | ATZ wiring options | ▲ | Series | <input type="checkbox"/> | Parallel |
| | 3 | Tamper recognition (see following table) | <input type="checkbox"/> | Disabled | ▲ | Enabled |
| | 4 | | ▲ | Disabled | <input type="checkbox"/> | Enabled |
| | 5 | Generate tamper on bypassed zone | <input type="checkbox"/> | No | ▲ | Yes |
| | 6 | Supervision options (see following table) | <input type="checkbox"/> | Disabled | ▲ | Enabled |
| | 7 | | ▲ | Disabled | <input type="checkbox"/> | Enabled |
| | 8 | Generate supervision on bypassed zone | <input type="checkbox"/> | 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 | <input type="checkbox"/> | 24 hours | <input checked="" type="checkbox"/> | 80 minutes |
| | 2 | EOL resistors (applies to all hardwired zones – panel, keypad, ZX8) | <input type="checkbox"/> | Disabled | <input checked="" type="checkbox"/> | Enabled |
| | 3 | Zone input 1 becomes a two-wire smoke input (except SP4000, SP5500, and SP65) | <input checked="" type="checkbox"/> | Disabled | <input type="checkbox"/> | Enabled |
| | 4 | ZX8 ID A (panel + 1) input 1 | <input type="checkbox"/> | Zone input | <input checked="" type="checkbox"/> | Tamper input |
| | 5 | ZX8 ID B (panel + 9) input 1 | <input type="checkbox"/> | Zone input | <input checked="" type="checkbox"/> | Tamper input |
| | 6 | ZX8 ID C (panel + 17) input 1 | <input type="checkbox"/> | Zone input | <input checked="" type="checkbox"/> | 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 | <input type="checkbox"/> | One-touch | <input checked="" type="checkbox"/> | Enter code |
| | 2 | Enter code to view alarm in memory/event list | <input type="checkbox"/> | One-touch | <input checked="" type="checkbox"/> | Enter code |
| | 3 | Trouble latch | <input type="checkbox"/> | Disabled | <input checked="" type="checkbox"/> | Enabled |
| | 4 | Bell squawk on Installer in | <input type="checkbox"/> | Disabled | <input checked="" type="checkbox"/> | Enabled |
| | 5 | Acknowledge trouble(s) before arming | <input type="checkbox"/> | Disabled | <input checked="" type="checkbox"/> | Enabled |
| | 6 | Do not arm if zone opens during exit delay | <input type="checkbox"/> | Disabled | <input checked="" type="checkbox"/> | Enabled |
| | 7 | Disable 'Bypass and Arm' | <input type="checkbox"/> | Disabled | <input checked="" type="checkbox"/> | Enabled |
| | 8 | Future use | - | - | - | - |

▲ = Default

System Timers

Worksheet 56: System Timers

| Section | Data | Description | Section | Data | Description |
|---------|--------------------------------|---|---------|--------------------------------|---|
| [710] | ___/___/___ 000 to 255 seconds | Entry delay 1* (default: 045) | [718] | ___/___/___ 000 to 255 seconds | Remote panic disarm lock delay (default: 000) |
| [711] | ___/___/___ 000 to 255 seconds | Entry delay 2* (default: 045) | [719] | ___/___/___ 000 to 255 days | Closing delinquency delay (default: 000) |
| [712] | ___/___/___ 000 to 015 | Auto-zone shutdown counter (default: 005) | [720] | ___/___/___ 000 to 255 seconds | Flex-instant delay (default: 015) |
| [713] | ___/___/___ 000 to 255 seconds | Intellizone delay (default: 048) | [721] | ___/___/___ 000 to 255 seconds | For StayD: re-arm delay (default: 005) |
| [714] | ___/___/___ 000 to 255 minutes | Recycle alarm delay (default: 000) | [722] | ___/___/___ 000 to 255 seconds | Auto trouble shutdown** (default: 010) |
| [715] | ___/___/___ 000 to 255 | Recycle alarm counter (default: 000) | [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 | <input type="checkbox"/> | Always | ▲ After alarm |
| | 2 | Report zone restore on closure | <input type="checkbox"/> | Bell cutoff | ▲ Zone closure |
| | 3 & 4 | Auto-test report transmission | ▲ | Disabled | <input type="checkbox"/> Enabled |
| | 5 | Contact ID override | ▲ | Disabled | <input type="checkbox"/> 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 V4.96 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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