

# **System Programming Guide**

**Software Version 2.0** 

Default Installer Code  $0000 \ / \ 00000$  (see section [281] on page 18)

# **Default System Master Code**

1234 / 123456 (see section [301] on page 18)

# **How Do I Enter Programming Mode?**

- 1) Press [ENTER].
- 2) Enter your [INSTALLER CODE].
- 3) Enter 3-digit [SECTION] you wish to program.
- 4) Enter required [DATA].

# **Decimal and Hexadecimal Programming Table**

Value or Action	What Do I	What Do I See?			
value of Action	Press?	10-Zone LED	16-Zone LED	LCD	
Values 1 to 9	[1] to [9]	[1] to [9]	[1] to [9]	[1] to [9]	
A (hex only)	[0]	[0 (10)]	[10]	0	
B (hex only)	[STAY]	[STAY]	[11]	В	
C (hex only)	[BYP]	[BYP]	[12]	С	
D (hex only)	[MEM]	[MEM]	[13]	D	
E (hex only)	[TBL] / [TRBL]	[TBL]	[14]	E	
F (hex only)	[PG] / [FNC1]	[PG]	[15]	F	
Exit Without Saving	[CLEAR]	[ENTER] flashes	[ARM1] & [STAY1] flash	"SECTION [	]"
Erase Current Digit	[FORCE]	Displays next digit or next section			
Save Data (hex only)	[ENTER]	Advances to the next section			

# **Trouble Display**

Press the [TBL] or [TRBL] key to view the Trouble Display. Please note that the keypad can be programmed to emit a BEEP every 5 seconds whenever a new trouble condition has occurred. Press the [TBL] or [TRBL] key to stop the beeping.

[1] - No Battery or Low Battery

[2] - Wireless Transmitter Low Battery

[3] - Power Failure

[4] - Bell Output Disconnected

[5] - Maximum Bell Current

[6] - Maximum Auxiliary Current

[7] - Communicator Report Failure

[8] - Timer Loss\*\*

[9] - Tamper or Zone Wiring Failure\*

[10] - Telephone Line Monitoring Failure

[11]/[STAY] - Fire Loop Trouble\*

[12]/[BYP] - Module Loss

[13]/[MEM] - Wireless Transmitter Supervision Loss\*

[16]/[FORCE] and [TBL]/[TRBL] flashes - Keypad Fault

<sup>\*</sup> Press the illuminated key ([9], [STAY] or [MEM]) to view which zones are causing the trouble. Enter the Installer Code to clear Tamper troubles.

<sup>\*\*</sup> Press [8] to re-program the time.

# **Table of Contents**

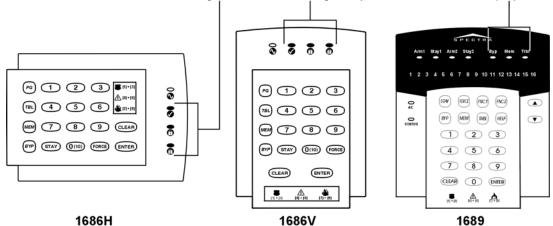
Default Installer Code	
Default System Master Code	
How Do I Enter Programming Mode?	
Decimal and Hexadecimal Programming Table	
Trouble Display	
Data Display Mode (LED Keypads Only)	
Configuring the 1686H, 1686V and 1689 Keypads (V2.0 or higher)	
Zone Programming	
System Timers	
Programmable Outputs	
System Options	
Communication Settings	
Report Codes	
System Settings	
User Code Options	
Reprogram All Modules	
Paradox Memory Key (PMC-3)	
T dradox worldry ricy (1 Wo o)	
4 DCM Output Madulas V2 0	20
4-PGM Output Modules V2.0	
PGM Programming	20
Printer Module V2.0	
PGM Programming	
Clock Programming	22
Glock Frogramming	
Voice-assisted Arm/Disarm Bus Module V2.0	23
	23
Voice-assisted Arm/Disarm Bus Module V2.0	
Voice-assisted Arm/Disarm Bus Module V2.0	24
Voice-assisted Arm/Disarm Bus Module V2.0  Wireless Features  Zone Assignment	<b>24</b>
Wireless Features Zone Assignment Serial Number Display	<b></b>
Wireless Features Zone Assignment Serial Number Display Signal Strength Display	
Voice-assisted Arm/Disarm Bus Module V2.0  Wireless Features  Zone Assignment  Serial Number Display  Signal Strength Display  Remote Control User Assignment	
Voice-assisted Arm/Disarm Bus Module V2.0  Wireless Features  Zone Assignment  Serial Number Display  Signal Strength Display  Remote Control User Assignment  Button Options	
Voice-assisted Arm/Disarm Bus Module V2.0  Wireless Features  Zone Assignment  Serial Number Display  Signal Strength Display  Remote Control User Assignment	
Wireless Features	
Wireless Features  Zone Assignment Serial Number Display Signal Strength Display Remote Control User Assignment Button Options Remote Control Assignment Tone Expansion Bus Modules	
Wireless Features	
Wireless Features	
Wireless Features  Zone Assignment Serial Number Display Signal Strength Display Remote Control User Assignment Button Options Remote Control Assignment Tone Expansion Bus Modules	
Wireless Features	
Wireless Features	
Wireless Features Zone Assignment Serial Number Display Signal Strength Display Remote Control User Assignment Button Options Remote Control Assignment  Zone Expansion Bus Modules  PGM Programming (SPC-ZX8 and APR3-ZX8 Only)  User Operation Partitioning	
Wireless Features  Zone Assignment Serial Number Display Signal Strength Display Remote Control User Assignment Button Options Remote Control Assignment  Zone Expansion Bus Modules PGM Programming (SPC-ZX8 and APR3-ZX8 Only)  User Operation Partitioning Programming Access Codes Programming Chime Zones	
Voice-assisted Arm/Disarm Bus Module V2.0  Wireless Features  Zone Assignment  Serial Number Display  Signal Strength Display  Remote Control User Assignment  Button Options  Remote Control Assignment  Zone Expansion Bus Modules  PGM Programming (SPC-ZX8 and APR3-ZX8 Only)  User Operation  Partitioning  Programming Access Codes  Programming Chime Zones  Keypad Muting	
Voice-assisted Arm/Disarm Bus Module V2.0  Wireless Features  Zone Assignment  Serial Number Display  Remote Control User Assignment  Button Options  Remote Control Assignment  Partitioning  Partitioning  Programming Access Codes  Programming Chime Zones  Keypad Muting  Keypad Backlight (1686H and 1686V Only)	
Voice-assisted Arm/Disarm Bus Module V2.0  Wireless Features  Zone Assignment  Serial Number Display  Signal Strength Display  Remote Control User Assignment  Button Options  Remote Control Assignment  Zone Expansion Bus Modules  PGM Programming (SPC-ZX8 and APR3-ZX8 Only)  User Operation  Partitioning  Programming Access Codes  Programming Chime Zones  Keypad Muting	
Wireless Features  Zone Assignment Serial Number Display Signal Strength Display Remote Control User Assignment Button Options Remote Control Assignment  Button Options Remote Control Assignment  Wireless Features  Signal Strength Display  Remote Control User Assignment  Button Options  Remote Control Assignment  User Operation  Partitioning  Programming (SPC-ZX8 and APR3-ZX8 Only)  Wiser Operation  Partitioning  Programming Access Codes  Programming Chime Zones  Keypad Muting  Keypad Backlight (1686H and 1686V Only)  Quick Function Keys	
Voice-assisted Arm/Disarm Bus Module V2.0  Wireless Features  Zone Assignment  Serial Number Display  Remote Control User Assignment  Button Options  Remote Control Assignment  Partitioning  Partitioning  Programming Access Codes  Programming Chime Zones  Keypad Muting  Keypad Backlight (1686H and 1686V Only)	
Wireless Features	
Wireless Features  Zone Assignment Serial Number Display Signal Strength Display Remote Control User Assignment Button Options Remote Control Assignment  Button Options Remote Control Assignment  Wireless Features  Signal Strength Display  Remote Control User Assignment  Button Options  Remote Control Assignment  User Operation  Partitioning  Programming (SPC-ZX8 and APR3-ZX8 Only)  Wiser Operation  Partitioning  Programming Access Codes  Programming Chime Zones  Keypad Muting  Keypad Backlight (1686H and 1686V Only)  Quick Function Keys	
Voice-assisted Arm/Disarm Bus Module V2.0  Wireless Features  Zone Assignment Serial Number Display Signal Strength Display Remote Control User Assignment Button Options Remote Control Assignment  Zone Expansion Bus Modules PGM Programming (SPC-ZX8 and APR3-ZX8 Only)  User Operation Partitioning Programming Access Codes Programming Chime Zones Keypad Muting Keypad Backlight (1686H and 1686V Only) Quick Function Keys  Appendix A - Ademco CID Report Code List (Prog.)	
Voice-assisted Arm/Disarm Bus Module V2.0  Wireless Features  Zone Assignment Serial Number Display Signal Strength Display Remote Control User Assignment Button Options Remote Control Assignment  Zone Expansion Bus Modules PGM Programming (SPC-ZX8 and APR3-ZX8 Only)  User Operation Partitioning Programming Access Codes Programming Chime Zones Keypad Muting Keypad Backlight (1686H and 1686V Only) Quick Function Keys  Appendix A - Ademco CID Report Code List (Prog.)	
Wireless Features	
Wireless Features	

Voice-assisted Arm/Disarm Bus Module (APR3-ADM2)	
8-Zone Expansion Bus Modules (SPC-ZX8 and APR3-ZX8)	
Hardware Connections	36
Single Zone Inputs	
Connecting Fire Circuits, Keyswitches and PGMs	
Programming a Wireless Fire Zone	
Alarm Relay and PGM Connections	
Connecting More Than Two Keypads	
AC Power & Backup Battery Connections	
Spectra 1759MG PCB Lavout	

# **Data Display Mode (LED Keypads Only)**

View the section's programming one digit at a time. Does not function with sections using Feature Select Programming.

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



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

# Configuring the 1686H, 1686V and 1689 Keypads (V2.0 or higher)

The keypad's zone number, EOL definition and anti-tamper switch are programmed through the keypad's programming mode. To do so:

How Do I Configure The Keypad?

- 1) Press [ENTER]
- 2) Enter your [INSTALLER CODE] (default: 0000 / 000000)
- 3) Press the [PG] (1686H/V) / [FNC1] (1689) key and hold it for 3 seconds.
- 4) Press the desired key ([1] to [3]. See below)
- 5) Press [ENTER] to exit programming mode



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

# Key [1] - Keypad Zone Selection

Key [1] determines whether the keypad's zone is Keypad Zone 1 or Keypad Zone 2. When key [1] is OFF (not illuminated), the keypad's zone is Keypad Zone 1. When key [1] is ON (illuminated), the keypad's zone is Keypad Zone 2. Refer to the *Zone Recognition Table* on page 6 for more information.

Key [1] OFF - Keypad Zone 1 (default)

Key [1] ON - Keypad Zone 2

# Key [2] - EOL Definition

Key [2] determines the keypad zone's EOL definition. When key [2] is OFF (not illuminated), EOL is disabled and the keypad zone uses the on-board EOL resistor. When key [2] is ON (illuminated), EOL is enabled and the keypad zone requires that an external EOL resistor be connected (refer to *Spectra 1759MG PCB Layout* on page 38 for more details).

Key [2] OFF - EOL disabled

Key [2] ON - EOL enabled (default)

# Key [3] - On-Board Tamper

Key [3] enables or disables the keypad's on-board anti-tamper switch. When key [3] is OFF (not illuminated), the anti-tamper switch is disabled. When key [3] is ON (illuminated), the anti-tamper switch is enabled.

Key [3] OFF - On-board anti-tamper switch disabled

Key [3] ON - On-board anti-tamper switch enabled



PLEASE NOTE: The keypad can be ordered with or without an anti-tamper switch. If the keypad has no anti-tamper switch, key [3] will be OFF by default. If the keypad has an anti-tamper switch, key [3] will be ON by default.

# **Zone Programming**

When programming zones, the zone assignments are dependent on where the detection devices are connected to in the system (see *Zone Recognition Table*). In installations that require using mostly the expansion inputs, refer to *Reassign Keypad Zone 2* (see section [126] option [7] on page 12) and *Reassign zones to expansion inputs* (see section [126] option [8] on page 12).



Do not assign inputs from different modules to the same expansion input.

# Zone Recognition Table

	Option [7]: OFF Option [8]: OFF	Option [7]: ON Option [8]: OFF	Option [7]: OFF Option [8]: ON	Option [7]: ON Option [8]: ON
Control Panel				
Input 1 =	Zone 1	Zone 1	Zone 1	Zone 1
Input 2 =	Zone 2	Zone 2	Zone 2	Zone 2
Input 3 =	Zone 3	Zone 3	N/A	N/A
Input 4 =	Zone 4	Zone 4	N/A	N/A
Input 5 =	Zone 5	Zone 5	N/A	N/A
Keypad				
Zone 1 =	Zone 6	Zone 6	Zone 3	Zone 3
Zone 2 =	Zone 7	N/A	Zone 4	N/A
Expansion				
Input 1 =	Zone 8	Zone 7	Zone 5	Zone 4
Input 2 =	Zone 9	Zone 8	Zone 6	Zone 5
Input 3 =	Zone 10	Zone 9	Zone 7	Zone 6
Input 4 =	Zone 11	Zone10	Zone 8	Zone 7
Input 5 =	Zone 12	Zone 11	Zone 9	Zone 8
Input 6 =	Zone 13	Zone 12	Zone 10	Zone 9
Input 7 =	Zone 14	Zone 13	Zone 11	Zone 10
Input 8 =	Zone 15	Zone 14	Zone 12	Zone 11

= not displayed on 10-Zone LED Keypads

**Option [7]** = Reassign Keypad Zone 2

**Option [8]** = Reassign zones to expansion inputs

#### 5) Enter one digit from the **Partition Assignment** table (see page 7) 6) Select one or more options from the **Zone Options** table (see page 7) 7) Press the [ENTER] key **Zone Definition** Partition Assignment **Zone Options** Empty - Zone Disabled Empty - Zone Disabled 1 - Auto Zone Shutdown 1 - Entry Delay 1 1 - Partition 1 2 - Bypass Enabled 2 - Entry Delay 2 2 - Partition 2 3 - Stay Zone 3 - Follow 3 - Both Partitions 4 - 5 - Zone Alarm Type 4 - Instant off off Audible alarm (steady) 5 - 24Hr Burglary off on Audible alarm (pulsed) 6 - 24Hr Buzzer on off Silent alarm Additional definitions for on on Generates a report only on-board terminals: 6 - Intellizone 7 - Kevswitch 7 - Delay alarm transmission 8 - Fire 24Hr 8 - Force Zone 9 - Delayed Fire 24Hr **Keyswitch Options** 1 - off = Maintained on = Momentary [FORCE] key = empty 2 - off = Regular Arm First Digit Second Digit on = Stay Arm

**How Do I Program the Zones?** Press the [ENTER] key

3) Enter 3-digit [SECTION]

2) Enter the [INSTALLER CODE] (Default: 0000 / 000000)

4) Enter one digit from the **Zone Definition** table (see page 7)

Section	Description	Zone Definition	Partition Assignment	Zone Options
<b>[001]</b> = Zone 01:				1 2 3 4 5 6 7 8
[ <b>002</b> ] = Zone 02:				1 2 3 4 5 6 7 8
<b>[003]</b> = Zone 03:				1 2 3 4 5 6 7 8
<b>[004]</b> = Zone 04:				1 2 3 4 5 6 7 8
<b>[005]</b> = Zone 05:				1 2 3 4 5 6 7 8
<b>[006]</b> = Zone 06:				1 2 3 4 5 6 7 8
<b>[007]</b> = Zone 07:				1 2 3 4 5 6 7 8
[ <b>008</b> ] = Zone 08:				1 2 3 4 5 6 7 8
<b>[009]</b> = Zone 09:				1 2 3 4 5 6 7 8
<b>[010]</b> = Zone 10:				1 2 3 4 5 6 7 8
<b>[011]</b> = Zone 11:				1 2 3 4 5 6 7 8
<b>[012]</b> = Zone 12:				1 2 3 4 5 6 7 8
<b>[013]</b> = Zone 13:				1 2 3 4 5 6 7 8
<b>[014]</b> = Zone 14:				1 2 3 4 5 6 7 8
<b>[015]</b> = Zone 15:				1 2 3 4 5 6 7 8
	Defaults =	Empty	Partition 1	1 and 2 ON

Only the control panel's on-board inputs can be defined as a Fire, Delayed Fire or a Keyswitch zone. The on-board zones are zones 01 to 05. To program a wireless fire zone, refer to Programming a Wireless Fire Zone on page 36.

# **System Timers**

Section #		Decimal Value (000 to 255)	Description	Default
[050] _	//	x 10 msec.	ZONE SPEED (ZONE 1)	600 msec.
[051]	//	x 10 msec.	ZONE SPEED (ZONE 2)	600 msec.
[052]	//	x 10 msec.	ZONE SPEED (ZONE 3)	600 msec.
[053]	//	x 10 msec.	ZONE SPEED (ZONE 4)	600 msec.
[054]	//	x 10 msec.	ZONE SPEED (ZONE 5)	600 msec.
[055]	//	x 10 msec.	ZONE SPEED (ZONE 6)	600 msec.
[056]	//	x 10 msec.	ZONE SPEED (ZONE 7)	600 msec.
[057]	//	x 10 msec.	ZONE SPEED (ZONE 8)	600 msec.
[058]	//	x 10 msec.	ZONE SPEED (ZONE 9)	600 msec.
[059]	//	x 10 msec.	ZONE SPEED (ZONE 10)	600 msec.
[060]	//	x 10 msec.	ZONE SPEED (ZONE 11)	600 msec.
[061]	//	x 10 msec.	ZONE SPEED (ZONE 12)	600 msec.
[062]	//	x 10 msec.	ZONE SPEED (ZONE 13)	600 msec.
[063]	//	x 10 msec.	ZONE SPEED (ZONE 14)	600 msec.
[064]	//	x 10 msec.	ZONE SPEED (ZONE 15)	600 msec.
[065]			FUTURE USE	
[066]	//	seconds (000 = follow Deactivation Event)	PGM1 TIMER	5 sec.
[067]	//	seconds (000 = follow Deactivation Event)	PGM2 TIMER	5 sec.
[068]	//	seconds (000 = follow Deactivation Event)	GLOBAL PGM TIMER	5 sec.
[069]	//	seconds	ENTRY DELAY 1	45 sec.
[070]	//	seconds	ENTRY DELAY 2	45 sec.
[071] _	//	seconds	EXIT DELAY 1	30 sec.
[072]	//	seconds	EXIT DELAY 2	30 sec.
[073]	//	minutes (000 = no bell on alarm)	BELL CUT-OFF TIMER (PARTITION 1)	4 min.
[074]	//	minutes (000 = no bell on alarm)	BELL CUT-OFF TIMER (PARTITION 2)	4 min.
[075]	//	x 15 minutes (000 = disabled)	NO MOVEMENT TIMER (PARTITION 1)	Disabled
[076]	//	x 15 minutes (000 = disabled)	NO MOVEMENT TIMER (PARTITION 2)	Disabled
[077]	//	seconds (minimum 10 sec.)	ANSWERING MACHINE OVERRIDE DELAY	Disabled
[078]	//	(000 = no answer, maximum = 15 rings)	NUMBER OF RINGS	8 rings
[079]	//	x 2 sec. (minimum 32 sec.)	TLM FAIL TIMER	32 sec.
[080]	//	seconds	DELAY ALARM TRANSMISSION	Disabled
[081] _	//	_ (000 = 16, maximum = 16)	MAXIMUM DIALING ATTEMPTS	8 attempts
[082] _	//	seconds	DELAY BETWEEN ATTEMPTS	20 sec.
[083] _	//	seconds	PAGER DELAY	5 sec.
[084] _	//	seconds (minimum 10 sec.)	INTELLIZONE DELAY	48 sec.
[085] _	//	seconds	RECENT CLOSING DELAY	No delay
[086] _	//	_ minutes	POWER FAILURE REPORT DELAY	15 min.
[087] _	//	_ days (000 = disabled)	AUTO TEST REPORT	Disabled
[088] _	//	000 to 127 = +1 to +127 seconds	CLOCK ADJUST	Disabled
		128 to 255 = -1 to -127 seconds		
[089] _	//	(000 = disabled, maximum = 15)	AUTO ZONE SHUTDOWN COUNTER	5
[090] _	/	minutes (000 = disabled)	RECYCLE ALARM DELAY	Disabled
[091] _	/	(000 = disabled)	RECYCLE ALARM COUNTER	Disabled
[092]	/	attempts before locking (000 = disabled)	KEYPAD LOCKOUT	Disabled
[093]	/	minutes (000 = disabled)	KEYPAD LOCKOUT DELAY	Disabled
[094]	//	seconds (000 = disabled)	PANIC LOCKOUT TIMER	Disabled
[095]	//	_ days (000 = disabled)	CLOSING DELINQUENCY TIMER (PARTITION 1)	
[110] _	/ :	_/ hours (00 to 23) : minutes (00 to 59)	AUTO TEST REPORT (TIME OF DAY)	Disabled
[111] _	/ :	_/ hours (00 to 23) : minutes (00 to 59)	AUTO-ARM TIME (PARTITION 1)	Disabled
[112] _	/ :	_/ hours (00 to 23) : minutes (00 to 59)	AUTO-ARM TIME (PARTITION 2)	Disabled

# **Programmable Outputs**

Each PGM Deactivation event can be used as another start (activation) event if their respective PGM timer (see sections [066] to [068]) is programmed with a value other than 000.

Example: section [120] = 05 03 02: this means PGM1 will activate whenever partition 2 is Stay Armed.					
Section #	#	Event Group #	Sub-Group #	Partition #	
[120] [121]	PGM 1 PGM Activation Event PGM 1 PGM Deactivation Event	/ /	/	/	01 = Partition 1
[122] [123]	PGM 2 PGM Activation Event PGM 2 PGM Deactivation Event	/	/	/	02 = Partition 2 99 = Any Partition
[124] [125]	Global PGM Activation Event Global PGM Deactivation Event Used to activate PGMs on expansion modules & LCD keypads.	/	/	/	The Sub-Groups proceeded by "(Partition 1)" cannot be assigned to activate Partition 2.

Event Group #	Sub-Group #
00 = Zone OK	01 to 15 = Zones 1 to 15 99 = Any Zone
01 = Zone Open	01 to 15 = Zones 1 to 15 99 = Any Zone
02 = Partition Status	00 = System not ready (Partition 1 only) 01 = System ready (Partition 1 only) 02 = Steady Alarm in Partition 03 = Pulsed Alarm in Partition 04 = Pulsed or Steady Alarm in Partition 05 = Alarm in Partition Restored 06 = Bell Squawk Activated (Partition 1 only) 07 = Bell Squawk Deactivated (Partition 1 only) 08 = Ground start (Partition 1 only) 09 = Disarm Partition 10 = Arm Partition 11 = Entry Delay (breach when system is armed) 99 = Any Sub-Group
05 = Non-Reportable Events	00 = Telephone Line Trouble ( <i>Partition 1 only</i> ) 01 = [PG] or [FNC1] key was pressed ( <i>Partition 1 only</i> ). This option can also be used to reset smoke detectors. 02 = Instant Arming 03 = Stay Arming 04 = Force Arming 05 = Fast Exit (Force & Regular Only) 06 = PC Fail to Communicate ( <i>Partition 1 only</i> ) 07 = Midnight ( <i>Partition 1 only</i> ) 99 = Any Sub-Group ( <i>Partition 1 only</i> , except 02 to 05)
06 = Arm/Disarm with Remote Control	01 to 08 = Remote Controls 1 to 8 99 = Any Remote Control
07 = Button Pressed on Remote (see button option "B" on page 25)	01 to 08 = Remote Controls 1 to 8 99 = Any Remote Control
08 = Button Pressed on Remote (see button option "C" on page 25)	01 to 08 = Remote Controls 1 to 8 99 = Any Remote Control

Event Group #	Sub-Group #
09 = Button Pressed on Remote	01 to 08 = Remote Controls 1 to 8
(see button option "D" on page 25)	99 = Any Remote Control
10 = Bypass Programming	01 to 48 = User Code Numbers 001 to 048 99 = Any User Code
11 = User Activated PGM	01 to 48 = User Code Numbers 001 to 048 ( <i>Partition 1 only</i> ) 99 = Any User Code
12 = Zone with Delay Transmission Option Enabled is Breached	01 to 15 = Zones 1 to 15 99 = Any Zone
13 = Arm with User Code	01 to 48 = User Code Numbers 001 to 048 99 = Any User Code
14 = Special Arm	00 = Auto Arming (timed/no movement) 01 = Late to Close (Auto-Arming failed) 02 = No Movement Auto-Arming 03 = Partial Arming (Stay, Force, Instant, Bypass) 04 = One-Touch Arming 05 = Arm with WinLoad Software 07 = Closing Delinquency (Partition 1 only) 99 = Any Sub-Group
15 = Disarm with User Code	01 to 48 = User Code Numbers 001 to 048 99 = Any User Code
16 = Disarm After Alarm w/ User Code	01 to 48 = User Code Numbers 001 to 048 99 = Any User Code
17 = Cancel Alarm with User Code	01 to 48 = User Code Numbers 001 to 048 99 = Any User Code
18 = Special Disarm	00 = Cancel Auto Arm (timed/no movement) 01 = Disarm with WinLoad Software 02 = Disarm after alarm with WinLoad Software 03 = Cancel Alarm with WinLoad Software 99 = Any Sub-Group
19 = Zone Bypassed on Arming	01 to 15 = Zones 1 to 15 99 = Any Zone
20 = Zone in Alarm	01 to 15 = Zones 1 to 15 99 = Any Zone
21 = Fire Alarm	01 to 05 = Zones 1 to 5 (on-board inputs) 99 = Any Zone
22 = Zone Alarm Restore	01 to 15 = Zones 1 to 15 99 = Any Zone
23 = Fire Alarm Restore	01 to 05 = Zones 1 to 5 (on-board inputs) 99 = Any Zone
24 = Special Alarm	00 = Emergency Panic 01 = Auxiliary Panic 02 = Fire Panic 03 = Recent Closing 04 = Auto Zone Shutdown 05 = Duress Alarm 06 = Keypad Lockout 99 = Any Sub-Group
25 = Auto Zone Shutdown	01 to 15 = Zones 1 to 15 99 = Any Zone
26 = Zone Tamper	01 to 15 = Zones 1 to 15 99 = Any Zone
27 = Zone Tamper Restore	01 to 15 = Zones 1 to 15 99 = Any Zone

Event Group #	Sub-Group #
28 = System Trouble	01 = AC Loss: only after Power Failure Delay has elapsed (Partition 1 only) 02 = Battery Failure (Partition 1 only) 03 = Auxiliary current overload (Partition 1 only) 04 = Bell current overload (Partition 1 only) 05 = Bell disconnected (Partition 1 only) 06 = Timer Loss (Partition 1 only) 07 = Fire Loop Trouble (Partition 1 only) 08 = Future Use 09 = Module Fault (Partition 1 only) 10 = Printer Fault (Partition 1 only) 11 = Fail to Communicate (Partition 1 only) 99 = Any Sub-Group (Partition 1 only)
29 = System Trouble Restore	00 = TLM restore (Partition 1 only) 01 = AC Loss restore (Partition 1 only) 02 = Battery Failure restore (Partition 1 only) 03 = Auxiliary current overload restore (Partition 1 only) 04 = Bell current overload restore (Partition 1 only) 05 = Bell disconnected restore (Partition 1 only) 06 = Timer Programmed (Partition 1 only) 07 = Fire Loop Trouble restore (Partition 1 only) 08 = Future Use 09 = Module Fault restore (Partition 1 only) 10 = Printer Fault restore (Partition 1 only) 11 = Fail to Communicate restore (Partition 1 only) 99 = Any Trouble Restore (Partition 1 only)
30 = Special Reporting	00 = System Power Up (Partition 1 only) 01 = Test Report (Partition 1 only) 02 = WinLoad Software Access (Partition 1 only) 03 = WinLoad Software Access finished (Partition 1 only) 04 = Installer enters programming mode (Partition 1 only) 05 = Installer exits programming mode (Partition 1 only) 99 = Any Sub-Group (Partition 1 only)
31 = Wireless Transmitter Supervision Loss 32 = Wireless Transmitter Supervision Loss Restore	01 to 15 = Zones 1 to 15 99 = Any Zone 01 to 15 = Zones 1 to 15
33 = Arming with a Keyswitch	99 = Any Zone  01 to 05 = Zones 1 to 5 (on-board inputs)  99 = Any Zone
34 = Disarming with a Keyswitch	01 to 05 = Zones 1 to 5 (on-board inputs) 99 = Any Zone
35 = Disarm after Alarm with a Keyswitch	01 to 05 = Zones 1 to 5 (on-board inputs) 99 = Any Zone
36 = Cancel Alarm with a Keyswitch	01 to 05 = Zones 1 to 5 (on-board inputs) 99 = Any Zone
37 = Wireless Transmitter Low Battery	01 to 15 = Zones 1 to 15 99 = Any Zone
38 = Wireless Transmitter Low Battery Restore	01 to 15 = Zones 1 to 15 99 = Any Zone

Event Group #	Sub-Group #	Partition #
80 = PGM follows Clock (APR3-PGM4 only)	HH = hour according to 24hr. clock	MM = minutes according to 24hr. clock

# **System Options**

**Bold** = Default Setting

Section	[126]: General Options							
Option		OFF	ON					
[1]	Confidential Mode	□ Disabled	☐ Enabled					
[2]	To exit Confidential Mode	□ Enter Access Code	☐ Press a Key					
[3]	Confidential Mode timer	☐ 2 minutes	☐ 5 seconds					
[4]	PGM1 normal state	☐ Normally Open (N.O.)	☐ Normally Closed (N.C.)					
[5]	PGM2 normal state	☐ Normally Open (N.O.)	☐ Normally Closed (N.C.)					
[6]	Global PGM normal state	☐ Normally Open (N.O.)	☐ Normally Closed (N.C.)					
[7]	Reassign Keypad Zone 2*	$\square$ Disabled	☐ Enabled					
[8]	Reassign zones to expansion inputs*	□ Disabled	☐ Enabled					
* Reassign Keypad Zone 2 and Reassign zones to expansion inputs change the zone numbering to increase the number of expansion inputs that can be displayed on 10-Zone LED Keypads. Refer to the Zone Recognition Table on page 6 and the Spectra 1759MG Reference & Installation Manual for details.								
	[127]: General Options							
Option		OFF	ON					
[1]	Partitioning	☐ Disabled	☐ Enabled					
[2]	Access code length	☐ 6-digits	☐ 4-digits					
[3]	Keypad audible trouble warning	☐ Disabled	☐ Enabled					
[4]	Lock System Master Code	□ Disabled	☐ Enabled					
[5]	Battery charge current	☐ 350mA	□ 700mA					
[6]	User Code 048 is a Duress Code	☐ Disabled	☐ Enabled					
[7]	Alarm relay follows	☐ Bell Output	☐ Global PGM					
[8]	Future use	□ N/A	□ N/A					
0	MOOL Organish Ondiana							
	[128]: General Options	0.55						
Option	D : 4 / 1/2	OFF	ON					
[1]	Panic 1: keys [1] & [3]	☐ Disabled	☐ Enabled					
[2]	Panic 2: keys [4] & [6]	☐ Disabled	☐ Enabled					
[3]	Panic 3: keys [7] & [9]	☐ Disabled	☐ Enabled					
[4]	Panic 1: silent or audible	☐ Silent	☐ Audible					
[5]	Panic 2: silent or audible	☐ Silent	☐ Audible					
[6]	Panic 3: silent or fire	☐ Silent	☐ Fire					
[7]	Keypad 1 tamper supervision	☐ Disabled	☐ Enabled					
[8]	Keypad 2 tamper supervision	☐ Disabled	☐ Enabled					
Section	[129]: General Options							
Option	[123]. General Options	OFF	ON					
[1]	PGM2 output activation option	☐ Steady	☐ Pulse (flash)					
[1] [2]	PGM2 pulse once every 30 sec. if system armed	☐ Disabled	☐ Enabled					
[2]	PGM2 pulse on Arm, twice on Disarm	☐ Disabled	☐ Enabled					
	•	☐ Disabled	☐ Enabled					
[4]	ZX4 & ZX8 zone expansion module supervision							
[5]	Future use	□ N/A	□ N/A					
[6]	Wireless module low battery supervision  4 PCM Output Medule supervision (APP3 PCM4)	☐ Disabled	☐ Enabled					
[7]	4-PGM Output Module supervision (APR3-PGM4)	☐ Disabled	☐ Enabled					
[8]	Printer Module supervision (APR3-PRT1)	□ Disabled	☐ Enabled					

Bold	=	Default	Setting

	[130]: Arming/Disarming Options		
Option		OFF	ON
[1]	One-touch Regular Arming	☐ Disabled	☐ Enabled
[2]	One-touch Stay Arming	☐ Disabled	☐ Enabled
[3]	One-touch Force Arming	☐ Disabled	☐ Enabled
[4]	One-touch bypass programming	☐ Disabled	☐ Enabled
[5]	Restrict arming on battery failure	☐ Disabled	☐ Enabled
[6]	Restrict arming on Tamper failure	☐ Disabled	☐ Enabled
[7]	Bell Squawk on Arm/Disarm with keypad	□ Disabled	☐ Enabled
[8]	Beep on exit delay	☐ Disabled	☐ Enabled
Section	[131]: Arming/Disarming Options		
Option		OFF	ON
[1]	Report Disarming	☐ Always	☐ Only after alarm
[2]	Regular Arming switches to Force Arming *	□ Disabled	☐ Enabled
[3]	Bell Squawk on Arm/Disarm with remote control (must be enabled for UL installations)	☐ Disabled	☐ Enabled
[4]	No exit delay when Arming with a remote control	☐ Disabled	☐ Enabled
[5]	No exit delay beeps and no Bell Squawk when Stay Arming	☐ Disabled	☐ Enabled
[6]	Restrict arming on wireless transmitter supervision loss	☐ Disabled	☐ Enabled
[7]	Generate supervision loss if detected on bypassed wireless zone	☐ Yes	□ No
[8]	Future Use	□ N/A	□ N/A
This ontio	n cannot be done using a keyswitch. Force arming	is not supported by keyswitches	•
THIS OPTIO	in cannot be done using a keyswitch. I dice airling	is not supported by keyswitches	·
Section	[132]: Zone Options		
Option		OFF	ON
[1]&[2]	Tamper Recognition Options	$\square$ see table	☐ see table
	[1]   [2]	☐ see table	☐ see table
	OFF OFF Disabled (default)		
	OFF ON When disarmed: GENERATES TROUBLE ONLY When armed: Follows Zone Alarm Types		
	ON OFF When disarmed: GENERATES SILENT ALARM		
	When armed: Follows Zone Alarm Types ON ON When disarmed: GENERATES AUDIBLE ALARM		
	When armed: Follows Zone Alarm Types		
[3]	Generate tamper if detected on bypassed zone	□ Yes	□ No
[4]	EOL (end-of-line) resistors	□ No EOL	☐ Use EOL Resistors
[5]	Future use	□ N/A	□ N/A
[6]	Report zone restore	☐ On Bell Cut-off	☐ On Zone Closure
[7]&[8]	Wireless Transmitter Supervision Options	$\square$ see table	$\square$ see table
<b></b>		$\square$ see table	☐ see table
	[7] [8]  OFF OFF Disabled (default)		
	OFF ON When disarmed: GENERATES TROUBLE ONLY When armed: Follows Zone Alarm Types		
	ON OFF When disarmed: GENERATES SILENT ALARM When armed: Follows Zone Alarm Types		
	ON ON When disarmed: GENERATES AUDIBLE ALARM When armed: Follows Zone Alarm Types		

**Bold** = Default Setting Section [133]: Partition 1 Options OFF ON Option □ Disabled □ Enabled [1] Auto-arm on time ☐ Disabled □ Enabled [2] Auto-arm on no movement [3] Auto Arming = Regular or Stay □ Regular Arming ☐ Stay Arming Switch to Stay Arming if no entry delay is opened □ Disabled □ Enabled [4] Stay Arming with Delay Partition 1 (Delay = [070]) □ Disabled □ Enabled [5] □ N/A □ N/A [6] to [8] Future use Section [134]: Partition 2 Options Option **OFF** ON ☐ Disabled □ Enabled [1] Auto-arm on time [2] Auto-arm on no movement Disabled Enabled [3] Auto Arming = Regular or Stay □ Regular Arming ☐ Stay Arming Switch to Stay Arming if no entry delay is opened □ Disabled □ Enabled [4] Stay Arming with Delay Partition 2 (Delay = [070]) □ Disabled □ Enabled [5] □ N/A [6] to [8] Future use  $\square$  N/A Section [135]: Dialer Options **OFF** ON Option ☐ see table ☐ see table [1] & [2] Telephone Line Monitoring (TLM) Options see table see table [1] OFF OFF TLM Disabled (default) TLM generates a trouble if armed OFF TLM generates an audible alarm if armed Silent alarms become audible ON □ Disabled [3] Reporting (Dialer) □ Enabled [4] Dialing method □ Pulse Dialing □ Tone (DTMF) Dialing Pulse ratio □ 1:2 □ 1:1.5 [5] □ Disabled If armed, activate bell output on Com. Failure □ Enabled [6] □ N/A  $\square$  N/A [7] & [8] Future use Section [136]: Dialer Options OFF Option ON [1] Call back WinLoad ☐ Disabled □ Enabled [2] Automatic event buffer transmission ☐ Disabled □ Enabled Contact I.D. report codes ☐ Programmable ☐ All Codes (automatic) [3]

#### [4] Alternate dial ☐ Disabled □ Enabled [5] If no dial tone is present ☐ Continue after 4 sec. ☐ Hang-up after 16 sec. [6] & [7] ☐ see table ☐ see table **Pager Reporting Format Dialer Options** ☐ see table ☐ see table [6] [7] OFF 1 call to pager or cellular telephone (default) OFF 2 calls to pager or cellular telephone ON ON 3 calls to pager or cellular telephone 4 calls to pager or cellular telephone Pager Format Transmission Options ☐ Transmit report code ☐ Transmit report code [8] after Pager delay immediately

**Bold** = Default Setting

Section	[137]: Event Call Dire	ection						
Option			OFF		ON			
[1]	Call Telephone #1 for Arr	ming/Disarming Report Codes	☐ Disabled		☐ Enabled			
[2]	Call Telephone #2 for Arr	ming/Disarming Report Codes		d	☐ Enabled			
[3]	Call Telephone #1 for Ala	arm/Restore Report Codes	☐ Disabled		□ Enabled			
[4]	Call Telephone #2 for Ala	arm/Restore Report Codes	☐ Disable	d	☐ Enabled			
[5]	Call Telephone #1 for Tai	mper/Restore Report Codes	☐ Disabled	l	☐ Enabled			
[6]	Call Telephone #2 for Tai	mper/Restore Report Codes		d	☐ Enabled			
[7] & [8]	Future use		□ N/A		□ N/A			
Section	[138]: Event Call Dire	ection						
Option	[100]. Event oan Dire	Cotton	OFF		ON			
[1]	Call Telephone #1 for Tro	ouble/Restore Report Codes	☐ Disabled	I	☐ Enabled			
[2]	Call Telephone #2 for Tro		☐ Disable		☐ Enabled			
[3]	Call Telephone #1 for Sp		☐ Disabled		☐ Enabled			
[4]	Call Telephone #2 for Sp		☐ Disable		☐ Enabled			
	Future use	colai Roport Codes			□ N/A			
[0] 10 [0]			<b>.</b> ,,, .		,,,,			
Commun	ication Settings							
Section #								
[140]	/ REP	ORTING FORMATS						
		ADEMCO SLOW (1400Hz, 1900	HZ, 10BPS)					
		SILENT KNIGHT FAST (1400HZ,		PS)				
	3 = SESCOA (2300HZ, 1800HZ, 20BPS) 4 = ADEMCO EXPRESS (DTMF 4+2)							
	5 = ADEMCO EXPRESS (DTMF 4+2)  5 = ADEMCO CONTACT ID (DEFAULT) see option [3] in section [136] on page 14							
		PAGER FORMAT						
		re used to program the re does not support Hexade						
— Hex	adecimais. Il the pager	does not support nexade	ciiiais, use	only the digits o	10 9.			
[141]	// PANI	EL IDENTIFIER (WINLOAD SOFT	WARE)					
[142]	// PC F	PASSWORD (WINLOAD SOFTWA	RE)					
[143]		TITION ACCOUNT NUMBER 1 (F		_				
[144]	// PAR	TITION ACCOUNT NUMBER 2 (F	or less than	4 digits, use the [Fo	DRCE] key to enter blanks.)			
[150]			' / / /	/ / / / / /				
	PC TELEPHONE NUMBER	FOR WINLOAD SOFTWARE (3	2-digits, if le	ss than 32 press [E	ENTER] to accept)			
[151]			////	///	///			
	CENTRAL STATION TELEF	PHONE OR PAGER NUMBER 1	32-aigits, if	less than 32 press	[ENTER] to accept)			
[152]	///////_CENTRAL STATION TELEF	////// PHONE OR PAGER NUMBER 2 (	//// (32-digits, if	///// less than 32 press	///// [ENTER] to accept)			
[153]			- '	/				
[.00]	BACK UP TELEPHONE NU	JMBER (32-digits, if less than	32 press [E	NTER] to accept)	·			
Fa3	F	Special Keys for Te	=					
[STAY] = "		m pulse to tone dialing or vio		[FORCE] = Delete c	•			
[BYP] = #	[TBL] or [TRBL] = 4-	-second pause		[PG] or [FNC1] = Ins	serts Blank Space			

# **Report Codes**

Ademco Slow, Silent Knight, SESCOA, Ademco Express and Pager Formats: Enter the desired 1- or 2-digit hex-value (0-F or 00-FF). Ademco "Programmable" Format: Enter the desired 2-digit hex values from the "Ademco Report Code List - Programmable" (see *Appendix A* on page 30). Also Note that entering FF will set the report code to the default Ademco Report Code. Ademco "All Codes" Format: The control panel automatically generates report codes from the "Ademco Report Code List - All Codes" (see *Appendix B* on page 31).

Arming Report Codes		
[160]/Access Code 01	[165]/Access Code 21	[170]/Access Code 41
/Access Code 02	/Access Code 22	/Access Code 42
/Access Code 03	/Access Code 23	/Access Code 43
/Access Code 04	/Access Code 24	/Access Code 44
[161]/Access Code 05	[166]/Access Code 25	[171]/Access Code 45
/Access Code 06	/Access Code 26	/Access Code 46
/Access Code 07	/Access Code 27	/Access Code 47
/Access Code 08	/Access Code 28	/Access Code 48
[162]/Access Code 09	[167]/Access Code 29	
/Access Code 10	/Access Code 30	
/Access Code 11	/Access Code 31	
/Access Code 12	/Access Code 32	Special Arming Codes
[163]/Access Code 13	[168]/Access Code 33	[172]/Auto-Arming
/Access Code 14	/Access Code 34	/Late to Close
/Access Code 15	/Access Code 35	/No Movement
/Access Code 16	/Access Code 36	/Partial Arming
[164]/Access Code 17	[169]/Access Code 37	[173]/Quick Arming
/Access Code 18	/Access Code 38	/Arming via PC
/Access Code 19	/Access Code 39	/Keyswitch Arming
/Access Code 20	/Access Code 40	/Closing Delinquency
Disarming Report Codes  [174]/Access Code 01/Access Code 02	[179]/Access Code 21 /Access Code 22	[184]/Access Code 41 /Access Code 42
/Access Code 03	/Access Code 23	/Access Code 43
/Access Code 04	/Access Code 24	/Access Code 44
[175]/Access Code 05	[180]/Access Code 25	[185]/Access Code 45
/Access Code 06	/Access Code 26	/Access Code 46
/Access Code 07	/Access Code 27	/Access Code 47
/Access Code 08	/Access Code 28	/Access Code 48
[176]/Access Code 09	[181]/Access Code 29	
/Access Code 10	/Access Code 30	
/Access Code 11	/Access Code 31	
/Access Code 12	/Access Code 32	Special Disarming Codes
[177]/Access Code 13	[182]/Access Code 33	[186]/Cancel Auto-Arm
/Access Code 14	/Access Code 34	/Disarming via PC
/Access Code 15	/Access Code 35	/Keyswitch Disarm
/Access Code 16	/Access Code 36	/N/A
[178]/Access Code 17	[183]/Access Code 37	
/Access Code 18	/Access Code 38	
/Access Code 19	/Access Code 39	
/ Access Code 20	/ Access Code 10	

# **Alarm Report Codes**

Alarm	Restore	Special
[187]/Zone 01	[191]/Zone 01	[195]/Emergency Panic
/Zone 02	/Zone 02	/Auxiliary Panic
/Zone 03	/Zone 03	/Fire Panic
/Zone 04	/Zone 04	/Recent Closing
[188]/Zone 05	[ <b>192</b> ]/Zone 05	[196]/Zone Shutdown
/ Zone 06	/ Zone 06	/ Duress
/ Zone 07	/ Zone 07	/Keypad Lockout
/Zone 08	/Zone 08	/N/A
[ <b>189</b> ] / Zone 09	[193]/Zone 09	
/ Zone 10	/Zone 10	
/Zone 10 /Zone 11	/Zone 10 /Zone 11	
/Zone 11 /Zone 12	/Zone 11 /Zone 12	
/Zone 12	/Zone 12	
[190]/Zone 13	[194]/Zone 13	
/Zone 14	/Zone 14	
/Zone 15	/Zone 15	
/N/A	/N/A	
<b>Tamper Report Codes</b>		
Trouble		
[197]/Zone 01	[ <b>200</b> ]/Zone 13	[ <b>203]</b> /Zone 09
/Zone 02	/Zone 14	/Zone 10
/Zone 03	/Zone 15	/Zone 11
/Zone 04	/N/A	/Zone 12
	Restore	
[198]/Zone 05	[201]/Zone 01	[ <b>204</b> ]/Zone 13
/Zone 06	/Zone 02	/Zone 14
/Zone 07	/Zone 03	/Zone 15
/Zone 08	/Zone 04	/N/A
[400] / Zana 00	[202] / Zana 05	
[199]/Zone 09	[ <b>202]</b> /Zone 05 / Zone 06	
/Zone 10 /Zone 11	/Zone 06 /Zone 07	
/Zone 11 /Zone 12	/Zone 07 /Zone 08	
/Zone 12	/Zone 08	
System Trouble Report Codes		
System Trouble	Restore	Special
[ <b>205</b> ]/N/A	[ <b>208]</b> /TLM	[211]/Cold Start (Shutdown)
/ AC Failure	/AC Failure	/Test Report
/Battery Failure	/Battery Failure	/N/A
/Auxiliary Supply	/Auxiliary Supply	/PC Exit
[206]/Bell Output Overload	[209]/Bell Output Overload	[212]/Installer In
/Bell Output Disconnect	/Bell Output Disconnect	/Installer Out
/Timer Loss	/Timer Loss	/N/A
/Fire Loop Trouble	/Fire Loop Trouble	/N/A
[207]/Wireless Low Battery	[210]/Wireless Low Battery	[213]/TX Supervision Loss
/Module Fault	/Module Fault	/TX Supervision Restore
/Printer Fault	/Printer Fault	/N/A
/ Fail to Communicate	/ Fail to Communicate	/ N/A

# **System Settings**

# Section # Description [280] \_\_/\_:\_\_/\_\_ SYSTEM REAL TIME CLOCK (HH:MM) [281] \_\_/\_/\_/\_ INSTALLER CODE, DEFAULT: 0000 / 000000 [282] \_\_/\_\_/\_\_ INSTALLER CODE LOCK, DEFAULT: 000 (147 TO LOCK, 000 TO UNLOCK) [301] \_\_/\_\_/\_\_/\_\_ SYSTEM MASTER CODE, DEFAULT: 1234 / 123456

# **User Code Options**

**System Master Code** arms or disarm partitions using any arming method and can create, modify or delete any User Access Code. Only the System Master Code can modify or delete User Access Codes assigned to both partitions.

**Master Code 1** is permanently assigned to partition 1 and can be used to create, modify or delete User Access Codes that are assigned to partition 1.

**Master Code 2** is permanently assigned to partition 2 (except when partitioning is disabled, Master Code 2 will be assigned to partition 1) and can be used to create, modify or delete User Access Codes that are assigned to the same partition.

Default for all user codes is options [1], [3] and [4] ON. ON = Option Enabled

OFF = Option Disabled

[1] ON = Partition 1 Access	[5] ON = Force Arming
[2] ON = Partition 2 Access	[6] ON = Arm Only
[3] ON = Bypass Programming	[7] ON = PGM Activation Only
[4] ON = Stay Arming	[8] ON = Future Use

Section #		U	ser	Со	de	Op	otio	ns	(ON/OFF)	Section	า	Us	ser	Со	de	Op	otio	ns	(ON/OFF)
[302]	Master Code 1	1	2	3	4	5	6	7	8	[325]	User Code 025	1	2	3	4	5	6	7	8
[303]	Master Code 2	1	2	3	4	5	6	7	8	[326]	User Code 026	1	2	3	4	5	6	7	8
[304]	User Code 004	1	2	3	4	5	6	7	8	[327]	User Code 027	1	2	3	4	5	6	7	8
[305]	User Code 005	1	2	3	4	5	6	7	8	[328]	User Code 028	1	2	3	4	5	6	7	8
[306]	User Code 006	1	2	3	4	5	6	7	8	[329]	User Code 029	1	2	3	4	5	6	7	8
[307]	User Code 007	1	2	3	4	5	6	7	8	[330]	User Code 030	1	2	3	4	5	6	7	8
[308]	User Code 008	1	2	3	4	5	6	7	8	[331]	User Code 031	1	2	3	4	5	6	7	8
[309]	User Code 009	1	2	3	4	5	6	7	8	[332]	User Code 032	1	2	3	4	5	6	7	8
[310]	User Code 010	1	2	3	4	5	6	7	8	[333]	User Code 033	1	2	3	4	5	6	7	8
[311]	User Code 011	1	2	3	4	5	6	7	8	[334]	User Code 034	1	2	3	4	5	6	7	8
[312]	User Code 012	1	2	3	4	5	6	7	8	[335]	User Code 035	1	2	3	4	5	6	7	8
[313]	User Code 013	1	2	3	4	5	6	7	8	[336]	User Code 036	1	2	3	4	5	6	7	8
[314]	User Code 014	1	2	3	4	5	6	7	8	[337]	User Code 037	1	2	3	4	5	6	7	8
[315]	User Code 015	1	2	3	4	5	6	7	8	[338]	User Code 038	1	2	3	4	5	6	7	8
[316]	User Code 016	1	2	3	4	5	6	7	8	[339]	User Code 039	1	2	3	4	5	6	7	8
[317]	User Code 017	1	2	3	4	5	6	7	8	[340]	User Code 040	1	2	3	4	5	6	7	8
[318]	User Code 018	1	2	3	4	5	6	7	8	[341]	User Code 041	1	2	3	4	5	6	7	8
[319]	User Code 019	1	2	3	4	5	6	7	8	[342]	User Code 042	1	2	3	4	5	6	7	8
[320]	User Code 020	1	2	3	4	5	6	7	8	[343]	User Code 043	1	2	3	4	5	6	7	8
[321]	User Code 021	1	2	3	4	5	6	7	8	[344]	User Code 044	1	2	3	4	5	6	7	8
[322]	User Code 022	1	2	3	4	5	6	7	8	[345]	User Code 045	1	2	3	4	5	6	7	8
[323]	User Code 023	1	2	3	4	5	6	7	8	[346]	User Code 046	1	2	3	4	5	6	7	8
[324]	User Code 024	1	2	3	4	5	6	7	8	[347]	User Code 047	1	2	3	4	5	6	7	8
										[348]	User Code 048	1	2	3	4	5	6	7	8

# **Reprogram All Modules**

[750] After removing an expansion module from the communication bus, the control panel keeps the module's programmed sections in memory. Therefore, if you add or replace a module you can re-program the module with the settings saved in the control panel. To do so, enter section [750] and press [ENTER]. The keypads will beep twice every second until the procedure is completed.

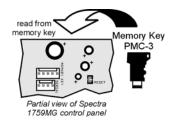
# Paradox Memory Key (PMC-3)

[900] DOWNLOAD FROM PARADOX MEMORY KEY TO DESTINATION CONTROL PANEL.

[902] COPY TO MEMORY KEY FROM SOURCE CONTROL PANEL.

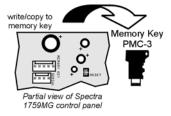
## **Download to DESTINATION Control Panel**

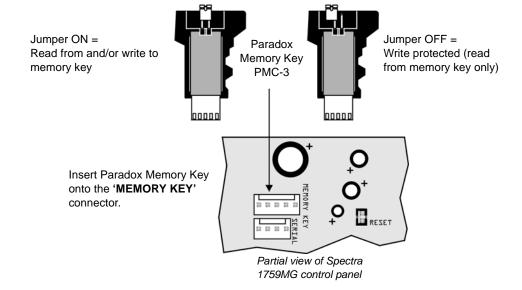
- 1) Remove AC and battery power from the control panel.
- Insert the Memory Key onto the serial connector labelled KEY on the Spectra control panel to which you wish to download the contents of the memory key to.
- 3) Re-apply AC and battery power.
- 4) Enter installer programming mode, enter section [900], then press [ENTER] to acknowledge.
- 5) When the keypad emits a "confirmation beep", remove the Memory Key.
- 6) Enter section **[750]** to reprogram the modules with the information downloaded from the Paradox Memory Key.



# Copy to Memory Key from SOURCE Control Panel

- 1) Remove AC and battery power from the control panel.
- 2) Insert Memory Key onto the serial connector labelled KEY on the Spectra control panel that you want to copy. Make sure the write protect jumper of the Memory Key is on.
- 3) Re-apply AC and battery power.
- 4) Enter installer programming mode, enter section [902], then press [ENTER] to acknowledge.
- 5) When the keypad emits a Confirmation Beep, remove the Memory Key. Remove the Memory Key's jumper if you do not wish to accidentally overwrite its contents.





# 4-PGM Output Modules V2.0

Due to the APR3-PGM4's Auto-recognition feature, it can be used with either the Spectra (V2.0 or higher), DGP-848 or DGP-NE96 control panel. When connected to the bus, the APR3-PGM4 automatically detects which control panel it is connected to and adjusts its internal communication parameters to function accordingly. Only one APR3-PGM4 can be connected to each Spectra control panel.



[512] PGM4 Deactivation Event

Modules with the APR- prefix are compatible with Spectra (versions 2.0 and higher) and DGP-848. Modules with the APR3- prefix are compatible with Spectra (versions 2.0 and higher), DGP-848 and DGP-NE96.

	fault Setting								
	[500]: General Options								
Option		OFF		ON					
[1]	PGM1 Time Base Selection		econds	☐ Minutes					
[2]	PGM2 Time Base Selection		econds	☐ Minutes					
[3]	PGM3 Time Base Selection	□ Se	econds	☐ Minutes					
[4]	PGM4 Time Base Selection	□ Se	econds	☐ Minutes					
[5] to [8]	Future use	$\square$ N	/A	□ N/A					
Each PGM [504]) is p	<b>PGM Programming</b> Each PGM Deactivation event can be used as another activation event if their respective PGM timer (see sections <b>[501]</b> to <b>[504]</b> ) is programmed with a value other than 000. The APR3-PGM4 uses the same PGM events as the Spectra control panel, please refer to <i>Programmable Outputs</i> on page 9.								
Section # [501]/ [502]/ [503]/ [504]/	Decimal Value (000-255)  /(000 = follow deactivation event)  /(000 = follow deactivation event)  /(000 = follow deactivation event)		Description PGM1 TIMER PGM2 TIMER PGM3 TIMER PGM4 TIMER	Default Value 5 sec. 5 sec. 5 sec. 5 sec.					
	//1 Activation Event //1 Deactivation Event	Event Group #	Sub-Group # / /	Partition #/					
	12 Activation Event 12 Deactivation Event	/	/	/					
	13 Activation Event 13 Deactivation Event	/	/	/					
<b>[511]</b> PGM	14 Activation Event	/_	/_	/					

# **Printer Module V2.0**

Due to the APR3-PRT1's Auto-recognition feature, it can be used with either the Spectra (V2.0 or higher), DGP-848 or DGP-NE96 control panel. When connected to the bus, the APR3-PRT1 automatically detects which control panel it is connected to and adjusts its internal communication parameters to function accordingly. Only one APR3-PRT1 can be connected to each Spectra control panel.



Modules with the APR- prefix are compatible with Spectra (versions 2.0 and higher) and DGP-848. Modules with the APR3- prefix are compatible with Spectra (versions 2.0 and higher), DGP-848 and DGP-NE96.

**Bold** = Default Setting

Section	[550]: General Options		
Option		OFF	ON
[1]	Assigned to Partition 1	☐ Disabled	☐ Enabled
[2]	Assigned to Partition 2	☐ Disabled	☐ Enabled
[3]	PGM normal state	$\square$ Normally Open (N.O.)	☐ Normally Closed (N.C.)
[4]	Print Arming and disarming events	☐ Disabled	☐ Automatically
[5]	Print Alarm and Alarm Restore events	□ Disabled	☐ Automatically
[6]	Print Tamper and Tamper Restore events	□ Disabled	☐ Automatically
[7]	Print Trouble and Trouble Restore events	□ Disabled	☐ Automatically
[8]	Print Special events	□ Disabled	☐ Automatically
Section	[551]: Automatic Zone Status Printing		
Option		OFF	ON
[1]	Print status of Zone 1	□ Disabled	☐ Automatically
[2]	Print status of Zone 2	□ Disabled	☐ Automatically
[3]	Print status of Zone 3	□ Disabled	☐ Automatically
[4]	Print status of Zone 4	□ Disabled	☐ Automatically
[5]	Print status of Zone 5	□ Disabled	☐ Automatically
[6]	Print status of Zone 6	□ Disabled	☐ Automatically
[7]	Print status of Zone 7	□ Disabled	☐ Automatically
[8]	Print status of Zone 8	□ Disabled	☐ Automatically
	[552]: Automatic Zone Status Printing		
Option		OFF	ON
[1]	Print status of Zone 9	□ Disabled	☐ Automatically
[2]	Print status of Zone 10	□ Disabled	☐ Automatically
[3]	Print status of Zone 11	□ Disabled	☐ Automatically
[4]	Print status of Zone 12	☐ Disabled	☐ Automatically
[5]	Print status of Zone 13	☐ Disabled	☐ Automatically
[6]	Print status of Zone 14	□ Disabled	☐ Automatically
[7]	Print status of Zone 15	□ Disabled	☐ Automatically
[8]	N/A	□ N/A	□ N/A

**Bold** = Default Setting Section [553]: Serial and Parallel Port Setup Options OFF ON Option □ Disabled [1] Serial port ☐ Enabled [2]&[3] ☐ see table ☐ see table Baud Rate Settings ☐ see table ☐ see table APR3-PRT1 [2] [3] APR-PRT1 OFF 1200 baud (default) 2400 baud (default) 9600 baud ON OFF 2400 baud OFF 9600 baud 19200 baud ON 19200 baud 57600 baud ON ON [4] Parallel port Disabled □ Enabled Off-line status ignored (parallel port only) [5] Disabled □ Enabled [6] Paper empty status ignored (parallel port only) ☐ Disabled □ Enabled Printer fault status ignored (parallel port only) [7] Disabled □ Enabled [8] Printer busy status ignored (parallel port only) □ Disabled □ Enabled **PGM Programming** The PGM Deactivation event can be used as another activation event if the PGM Timer (section [554]) is programmed with a value other than 000. The APR3-PRT1 module uses the same PGM events as the Spectra control panel, please refer to Programmable Outputs on page 9. Section # Decimal Value (000-255) Description **Default Value** seconds (000 = follow deactivation event) [554] \_\_\_/\_ **PGM1 TIMER** 5s Section # Event Group # Sub-Group # Partition # [555] PGM1 Activation Event

**Clock Programming** 

[556] PGM1 Deactivation Event

For example, to enter the date March 26, 2004 you would enter 2004 (year), 03 (month), and 26 (day).



# Voice-assisted Arm/Disarm Bus Module V2.0

Due to InTouch's Auto-recognition feature, it can be used with either the Spectra (V2.0 or higher), DGP-848 or DGP-NE96 control panels. When connected to the bus, InTouch automatically detects which control panel it is connected to and adjusts its internal communication parameters to function accordingly. Only one InTouch can be connected to each Spectra control panel.

APR3-ADM2 can also be programmed using the WinLoad Software. Refer to the WinLoad Online Help for more information.



Section #

Decimal Value (000-255)

Modules with the APR- prefix are compatible with Spectra (versions 2.0 and higher) and DGP-848. Modules with the APR3- prefix are compatible with Spectra (versions 2.0 and higher), DGP-848 and DGP-NE96.

Description

Default Value

[575]/ [576]/ [577]/	// rings (000 = disabled) // seconds (010-255, 000 = disabled) // seconds/minutes (000 = disabled)	NUMBER OF RINGS ANSWERING MACHINE O <sup>V</sup> PGM TIMER	8 rings /ERRIDE 000 005
Bold = De	efault Setting		
Section	[578]: General Options		
Option		OFF	ON
[1]	Stand-alone Code length	☐ 6-digits	☐ 4-digits
[2]	Partitioned system	□ Disabled	☐ Enabled
[3]	PGM output	□ Disabled	☐ Enabled
[4]	PGM time in	☐ Seconds	☐ Minutes
[5] to [8]	Future use	□ N/A	□ N/A

# **Wireless Features**



Do not cut, bend or alter 1759MG's antennae and ensure that electrical wires do not cross over the antennae, as this may affect signal reception.

# **Zone Assignment**

The serial number can be located on the inside of the transmitter or you can use the Serial Number Display feature (see page 24). Also, refer to Zone Recognition Table on page 6.

Section #					
[601]/_	/_	/_	/_	/_	= EXPANSION INPUT 1
[602]/_	/_	/_	/_	/_	= EXPANSION INPUT 2
[603]/_	/_	/_	/_	/_	= EXPANSION INPUT 3
[604]/_	/_	/_	/_	/_	= EXPANSION INPUT 4
[605]/_	/_	/_	/_	/_	= EXPANSION INPUT 5
[606]/_	/_	/_	/_	/_	= EXPANSION INPUT 6
[607]/_	/_	/_	/_	/_	= EXPANSION INPUT 7
[608]/_	/_	/_	/_	/_	= EXPANSION INPUT 8

# **Bold** = Default Setting

Section [610]: General Options							
Option		OFF	ON				
[1]	Wireless transmitter check-in supervision	☐ Disabled	$\square$ Enabled				
[2]	Check-in supervision interval	☐ <b>24</b> h	☐ 80min				
[3] to [7]	Future use	□ N/A	□ N/A				
[8]	Tamper Supervision	☐ Disabled	☐ Enabled				

# **Serial Number Display**

Section # Description

[630] Press the anti-tamper switch of the Magellan Wireless Transmitter. The keypad will emit a confirmation

beep. On LED keypads, press the **[ENTER]** key to view the digits one at a time. On LCD keypads, the first 3 digits of the serial number will appear. Press the **[ENTER]** key 3 times to view the next 3 digits. Continue

activating the desired transmitters or press [CLEAR] to exit.

# Signal Strength Display

Section # Description

After entering the desired section, activate the Magellan Wireless Transmitter by opening/closing the zone or by pressing the anti-tamper switch. Always ignore the first reading as it won't be accurate. An average

reading of 3 or higher is acceptable.

[631]	Display Signal Strength of Expansion Input 1 - Section [601]
[632]	Display Signal Strength of Expansion Input 2 - Section [602]
[633]	Display Signal Strength of Expansion Input 3 - Section [603]
[634]	Display Signal Strength of Expansion Input 4 - Section [604]
[635]	Display Signal Strength of Expansion Input 5 - Section [605]
[636]	Display Signal Strength of Expansion Input 6 - Section [606]
[637]	Display Signal Strength of Expansion Input 7 - Section [607]
[638]	Display Signal Strength of Expansion Input 8 - Section [608]

# **Remote Control User Assignment**

Section #	Decimal Value	Description	Default Value
[701]	/(001-048 = user #)	remote control #1 - section [731]*	000
[702]	/(001-048 = user #)	remote control #2 - section [732]*	000
[703]	/(001-048 = user #)	remote control #3 - section [733]*	000
[704]	/(001-048 = user #)	remote control #4 - section [734]*	000
[705]	/(001-048 = user #)	remote control #5 - section [735]*	000
[706]	/(001-048 = user #)	remote control #6 - section [736]*	000
[707]	/(001-048 = user #)	remote control #7 - section [737]*	000
[708]	/(001-048 = user #)	remote control #8 - section [738]*	000

<sup>\*</sup> refer to Remote Control Assignment on page 26.

# **Button Options**





Please note that the User Code assigned to the remote control (sections [701] to [708]) must have the same User Options and Button Options enabled. For example, if you enable the Force Arming button option you must enable the appropriate Force Arming user option. Also, if you enable any of the Panic button options, you must enable the Panic options in the control panel.

# Remote Control Button Programming

RC#	Section	RC Buttons Default: (1 5 0 0 0 0 0 0)		
1	[711]	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		
2	[712]			
3	[713]			
4	[714]	////////////		
5	[715]			
6	[716]	////////////		
7	[717]	////////////		
8	[718]	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		

<sup>=</sup> These button combinations are not available with the MG-REM1or MG-RAC1 remote controls and cannot be programmed.

# **Remote Control Assignment**

Enter the appropriate section and press any button on the remote control twice to assign the remote control. If you hear a rejection beep, an error has occurred or the remote control has already been assigned. To delete a remote control, enter the desired section and then press the **[FORCE]** button.

Section #	
[731]	REMOTE CONTROL #1
[732]	REMOTE CONTROL #2
[733]	REMOTE CONTROL #3
[734]	REMOTE CONTROL #4
[735]	REMOTE CONTROL #5
[736]	REMOTE CONTROL #6
[737]	REMOTE CONTROL #7
[738]	REMOTE CONTROL #8

# **Zone Expansion Bus Modules**

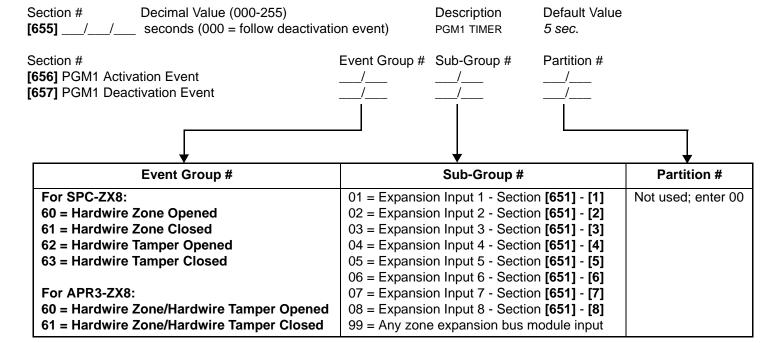
Only one SPC/APR3-ZX4 or one SPC/APR3-ZX8 can be connected to each Spectra control panel. The following sections are for SPC-ZX4 version 1.0, APR3-ZX4 version 1.0, SPC-ZX8 version 1.0 and APR3-ZX8 version 2.0.



Modules with the APR- prefix are compatible with Spectra (versions 2.0 and higher) and DGP-848. Modules with the APR3- prefix are compatible with Spectra (versions 2.0 and higher), DGP-848 and DGP-NE96.

	fault Setting						
Section [650]: Options							
Option		OFF		ON			
[1]	EOL (end-of-line) resistors for hardwire	modules $\square$ No	EOL	☐ Use EOL Resistors			
[2]	Zone Expansion Module tamper recogn	ition 🗆 <b>Disa</b>	abled	☐ Z1 becomes tamper input			
[3]	PGM1 on SPC/APR3-ZX8 follows Global PGM programmed in sections [124] & [125]		abled	☐ Enabled			
[4] to [8]	Future Use	□ N/A		□ N/A			
Section	[651]: Zone Assignment						
Option	See Zone Recognition Table on page 6	. OFF		ON			
[1]	Input Z1 =Expansion	on Input 1 $\square$ Dis	abled	☐ Enabled			
[2]	Input Z2 =Expansion	on Input 2 $\Box$ Dis	abled	☐ Enabled			
[3]	Input Z3 =Expansion	on Input 3 🗆 🗖 <b>Dis</b>	abled	☐ Enabled			
[4]	Input Z4 =Expansion	on Input 4 🔲 Dis	abled	☐ Enabled			
[5]	Input Z5 (SPC/APR3-ZX8 only) =Expansion	on Input 5 🗆 🗖 <b>Dis</b>	abled	☐ Enabled			
[6]	Input Z6 (SPC/APR3-ZX8 only) =Expansion	on Input 6 🗆 <b>Dis</b>	abled	☐ Enabled			
[7]	Input Z7 (SPC/APR3-ZX8 only) =Expansion	on Input 7 🗆 🗖 <b>Dis</b>	abled	☐ Enabled			
[8]	Input Z8 (SPC/APR3-ZX8 only) =Expansion	on Input 8 🗆 <b>Dis</b>	abled	☐ Enabled			
PGM Programming (SPC-ZX8 and APR3-ZX8 Only)							

The PGM will only activate or deactivate 100mS after the selected event occurs. The PGM Deactivation event can be used as another activation event if the PGM Timer (section [655]) is programmed with a value other than 000. The system will ignore the PGM if it has been programmed to follow the Global PGM (option [3] in section [650]). Only PGM events from the table below can be used.



# **User Operation**

# **Partitioning**

The Spectra system is equipped with a partitioning feature which can divide the alarm system into two distinct areas identified as Partition 1 and Partition 2. Partitioning can be used in installations where shared security systems are more practical, such as an office/warehouse building. *If the system is not partitioned, all User Codes and features will be recognized as belonging to Partition 1.* 

# How does a partitioned system work?

- Users can only arm or disarm their assigned partitions.
- Only zones assigned to Partition 1 will arm or disarm when Partition 1 is armed or disarmed.
- Only zones assigned to Partition 2 will arm or disarm when Partition 2 is armed or disarmed.
- Zones assigned to both partitions will arm when both partitions are armed and will disarm when at least one disarms.
- Some of the system's features can be programmed separately for each partition.

# **Programming Access Codes**

User Access Codes are personal identification numbers that allow users to enter certain programming modes, arm or disarm the alarm system as well as activate or deactivate PGMs. Spectra security systems support the following:

**System Master Code** can arm or disarm any partition using any arming method and can create, modify or delete any User Access Code. Only the System Master Code can modify or delete User Access Codes assigned to both partitions.

**Master Code 1** is permanently assigned to partition 1 and can be used to create, modify or delete User Access Codes that are assigned to partition 1.

**Master Code 2** is permanently assigned to partition 2 (except when partitioning is disabled, Master Code 2 will be assigned to partition 1) and can be used to create, modify or delete User Access Codes that are assigned to the same partition.

**45** *User Access Codes* (including 1 Duress code)

# **How Do I Program Access Codes?**

- 1) Press [ENTER]
- 2) Key in the [SYSTEM MASTER CODE] or [MASTER CODE]
- 3) Key in 3-digit [SECTION] (see User Code Table)
- 4) Key in new 4- or 6-digit [ACCESS CODE] [ENTER] flashes. Return to step 3

### **How Do I Delete Access Codes?**

- 1) Repeat steps 1 to 3 (see above)
- 2) Press the **[FORCE]** key once for each digit in the access code (4 or 6 times) until the keypad emits a Confirmation Beep.

## User Code Table

Section	User Codes
[001]	User Code 001 = System Master Code
[002]	User Code 002 = Master Code 1
[003]	User Code 003 = Master Code 2
[004] то [047]	User Code 004 to User Code 047
[048]	User Code 048 or Duress Code

# **Programming Chime Zones**

This feature allows users to program which zones will be Chime Enabled. A Chime Enabled zone will cause the keypad to emit a rapid intermittent beep tone (BEEP-BEEP-BEEP) advising the user every time it is opened. Each keypad must be Chime Programmed separately. Keypad chimes must be re-programmed if the system suffers a total power loss (16-zone LED and LCD Keypads only).

# 10-Zone LED Keypad

Press and hold any key from [1] to [10] for 3 seconds to activate or deactivate Chiming for zones 1 to 10. For example, press and hold the [1] key to enable chiming on zone 1. If, after pressing and holding a key, the keypad emits a confirmation beep, this means the chime feature has been enabled for that zone. If the keypad emits a Rejection Beep, this means the Chime feature has been disabled for the corresponding zone.

# 16-Zone LED Keypad

Press and hold the [9] key. Enter the 2-digit (01 to 16) zone number(s). When the corresponding LED is on, the zone is chimed. When the corresponding LED is off, the zone is unchimed. When the desired zones are chimed, press [ENTER].

## LCD Keypad

Press and hold the [9] key. Enter the 2-digit (01 to 16) zone number(s) or use the arrow keys to scroll through the zones. When the appropriate zone is displayed, press the [FNC1] key. When the desired zones are chimed, press [ENTER].

# **Keypad Muting**

Press and hold the [CLEAR] key for 3 seconds to enable or disable keypad muting. When muted, the keypad will only beep when a key is pressed or when the keypad emits a Rejection or Confirmation Beep. All other beep functions are disabled.

# Keypad Backlight (1686H and 1686V Only)

The illumination level behind the keys can be modified to suit the user's needs. There are four backlight levels. The [MEM] key is used to set the desired level. Each consecutive push of the [MEM] key will increase the backlight level until the maximum level is reached. After reaching the maximum level, the backlight level will return to the lowest level and the whole process is repeated. To change the backlight level:

# How do I Modify the Backlight?

- 1) Press and hold the [MEM] key for 3 seconds
- 2) The [MEM] key will illuminate
- 3) Press the [MEM] key to set the desired backlight level
- 4) Press [CLEAR] or [ENTER] to exit

# **Quick Function Keys**

# **Installer Test Mode**

# [ENTER] + [INSTALLER CODE] + [TBL] or [TRBL]

The Installer Test Mode allows you to perform walk tests where the bell/siren will squawk once to indicate an open zone and twice to indicate a closed zone. To enter this mode, press [ENTER] + [INSTALLER CODE] + [TBL] or [TRBL]. The keypad will emit a Confirmation Beep. To disable this mode, press the [TBL] or [TRBL] key again. The keypad will emit a Rejection Beep.

# **Test Report**

## [ENTER] + [INSTALLER/MASTER CODE] + [MEM]

Sends the Test Report report code programmed in section [211] to the central station.

# **Call WinLoad Software**

# [ENTER] + [INSTALLER/MASTER CODE] + [BYP]

This feature is used to establish communication between the control panel and a computer using the WinLoad Software. After entering this mode, the control panel will dial the telephone number programmed in section [150].

## **Cancel Communication**

# [ENTER] + [INSTALLER/MASTER CODE] + [STAY]

Cancels all communication until the next reportable event. If the Master Code was used, only communication with WinLoad would be cancelled.

# **Answer WinLoad Software**

# [ENTER] + [INSTALLER/MASTER CODE] + [FORCE]

Forces the control panel to pick-up an incoming telephone call.

# **Appendix A - Ademco CID Report Code List (Prog.)**

If using the Ademco Contact ID Programmable code format, enter the 2-digit hexadecimal value from the table below (Prog. Value) into sections [160] to [213] to program the desired report codes. To enter a 0 value press the [FORCE] key.

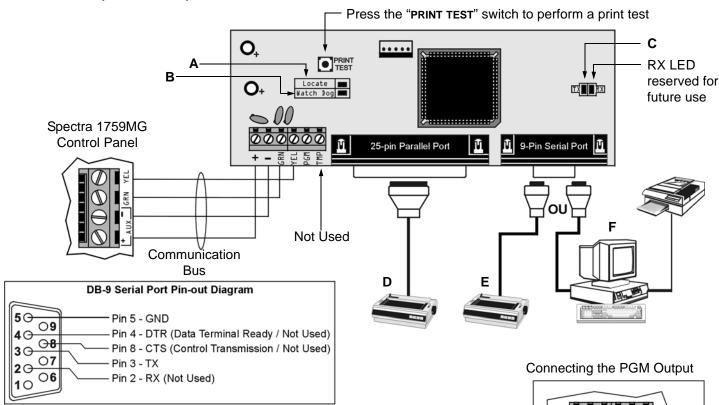
CID#		Prog. Value	CID#	Reporting Code	Prog. Value	CID#	Code \	Prog. /alue
MEDICAL	ALARMS - 100		203	Gate Valve Sensor	2E	401	O/C by User	5B
100	Medical Alarm	01	204	Low Water Level	2F	402	Group O/C	5C
101	Pendant Transmitter	02	205	Pump Activated	30	403	Automatic O/C	5D
102	Fail to Report In	03	206	Pump Failure	31	404	Late to O/C	5E
FIRE ALA	ARMS - 110		SYSTEM	TROUBLES - 300 & 310		405	Deferred	5F
110	Fire Alarm	04	300	System Trouble	32	406	Cancel	60
111	Smoke	05	301	AC Loss	33	407	Remote Arm/Disarm	61
112	Combustion	06	302	Low System Battery	34	408	Quick Arm	62
113	Water Flow	07	303	RAM Checksum Bad	35	409	Keyswitch O/C	63
114	Heat	80	304	ROM Checksum Bad	36	REMOTE	ACCESS - 410	
115	Pull Station	09	305	System Reset	37	411	Callback Request Made	64
116	Duct	0A	306	Panel Program Changed	38	412	Success - Download Acces	s 65
117	Flame	0B	307	Self-Test Failure	39	413	Unsuccessful Access	66
118	Near Alarm	0C	308	System Shutdown	3A	414	System Shutdown	67
PANIC AI	LARMS - 120		309	Battery Test Failure	3B	415	Dialer Shutdown	68
120	Panic Alarm	0D	310	Ground Fault	3C	ACCESS	CONTROL - 420	
121	Duress	0E	SOUNDER	R/RELAY TROUBLES - 320		421	Access Denied	69
122	Silent	0F	320	Sounder Relay	3D	422	Access Report By User	6A
123	Audible	10	321	Bell 1	3E	SOUNDER	R RELAY DISABLES - 520	
BURGLA	R ALARMS - 130		322	Bell 2	3F	520	Sounder/Relay Disabled	6B
130	Burglary	11	323	Alarm Relay	40	521	Bell 1 Disable	6C
131	Perimeter	12	324	Trouble Relay	41	522	Bell 2 Disable	6D
132	Interior	13	325	Reversing	42	523	Alarm Relay Disable	6E
133	24-Hour	14	SYSTEM F	PERIPHERAL TROUBLES - 3	330 & 340	524	Trouble Relay Disable	6F
134	Entry/Exit	15	330	System Peripheral	43	525	Reversing Relay Disable	70
135	Day/Night	16	331	Polling Loop Open	44	COMMUN	ICATION DISABLES - 550 &	560
136	Outdoor	17	332	Polling Loop Short	45	551	Dialer Disabled	71
137	Tamper	18	333	Exp. Module Failure	46	552	Radio xmitter Disabled	72
138	Near Alarm	19	334	Repeater Failure	47	BYPASSE	S - 570	
GENERA	L ALARMS - 140		335	Local Printer Paper Out	48	570	Zone Bypass	73
140	General Alarm	1A	336	Local Printer Failure	49	571	Fire Bypass	74
141	Polling Loop Open	1B	COMMUN	ICATION TROUBLES - 350	& 360	572	24-Hour Zone Bypass	75
142	Polling Loop Short	1C	350	Communication	4A	573	Burg. Bypass	76
143	Expansion Module Failure		351	Telco Fault 1	4B	574	Group Bypass	77
144	Sensor Tamper	1E	352	Telco Fault 2	4C	TEST/MIS		
145	Expansion Module Tampe	er 1F	353	Long Range Radio	4D	601	Manual Trigger Test	78
	NON-BURGLARY - 150 &		354	Fail to Communicate	4E	602	Periodic Test Report	79
150	24-Hour Non-Burglary	20	355	Loss of Radio Supervision		603	Periodic RF Xmission	7A
151	Gas Detected	21	356	Loss of Central Polling	50	604	Fire Test	7B
152	Refrigeration	22		TON LOOP TROUBLES - 3		605	Status Report to Follow	7C
153	Loss of Heat	23	370	Protection Loop	51	606	Listen-in to Follow	7D
154	Water Leakage	24	371	Protection Loop Open	52	607	Walk Test Mode	7E
155	Foil Break	25	372	Protection Loop short	53	621	Event Log Reset	7F
156	Day Trouble	26	373	Fire Trouble	54	622	Event Log 50% Full	80
157	Low Bottled Gas Level	27		TROUBLES - 380	J-1	623	Event Log 90% Full	81
158	High Temp	28	380	Sensor Trouble	55	624	Event Log Overflow	82
159	Low Temp	29	381	Loss of SuperRF	56	625	Time/Date Reset	83
161	Loss of Air Flow	29 2A	382	Loss of Super RPM	57	626	Time/Date Neset	84
	PERVISORY - 200 & 210	۷۸	383	Sensor Tamper	57 58	627	Program Mode Entry	85
200		20	383 384	•	56 59		-	86
	Fire Supervisory	2B		RF xmtr. Low Battery	59	628	Program Mode Exit	
201	Low Water Pressure	2C	OPEN/CL		<b>5</b> A	631	Exception Schedule Chang	
202	Low CO2	2D	400	Open/Close	5A	654	System Inactivity	88

# **Appendix B - Ademco CID Report Code List (All Codes)**

System Event	Default Contact ID Report Code when	System Event	Default Contact ID Report Code when
	option [3] is on in section [136]		option [3] is on in section [136]
Arming with Master Code (##)	3 4A1 - Close by user	Auxiliary supply trouble	1 3AA - System trouble
Arming with User Code (##)	3 4A1 - Close by user	Bell output current limit	1 321 - Bell 1
Arming with Keyswitch (##)	3 4A9 - Keyswitch Close	Bell absent	1 321 - Bell 1
Auto Arming	3 4A3 - Automatic Close	Clock lost	1 626 - Time/Date inaccurate
Arm with PC software	3 4A7 - Remote arm/disarm	Fire loop trouble	1 373 - Fire trouble
Late To Close	3 4A4 - Late to Close	Wireless Transmitter Low Battery	1 384 - RF xmtr. low battery
No Movement	3 4A4 - Late to Close	Wireless Transmitter Supervision Loss	1 381 - Loss of super RF
Partial arming	1 574 - Group bypass	Module fault	1 333 - Expansion module failure
Quick arming	3 408 - Quick arm	Printer fault	1 336 - Local printer failure
		Fail to communicate with central station	1 354 - Fail to communicate
Disarm with Master Code (##)	1 4A1 - Open by user	Wireless Transmitter Low Battery	1 384 - RF xmtr. low battery
Disarm with User Code (##)	1 4A1 - Open by user	TLM trouble restore	3 351 - Telco 1 fault restore
Disarm with Keyswitch (##)	1 4A9 - Keyswitch Open	AC Failure restore	3 3A1 - AC loss restore
Disarm after alarm with Master Code (##)	1 4A1 - Open by user	Battery Failure restore	3 3A9 - Battery test restore
Disarm after alarm with User Code (##)	1 4A1 - Open by user	Auxiliary supply trouble restore	3 3AA - System trouble restore
Disarm after alarm with Keyswitch (##)	1 4A9 - Keyswitch Open	Bell output current limit restore	3 321 - Bell 1 restore
· · · · · · · · · · · · · · · · · · ·		Bell absent restore	3 321 - Bell 1 restore
Auto Arming Cancellation	1 4A5 - Deferred Open/Close	Clock programmed	3 626 - Time/Date Reset
Disarm with PC software	1 4A7 - Remote arm/disarm	Fire loop trouble restore	3 373 - Fire trouble restore
Disarm after an alarm with PC software	1 4A7 - Remote arm/disarm	Wireless Transmitter Low Battery	3 384 - RF xmtr. low battery
		Wireless Transmitter Supervision Loss	3 381 - Loss of super RF
Zone Bypassed (##)	1 57A - Zone bypass	Module fault restore	3 333 - Expansion module failure restore
Zone alarm (##)	1 13A - Burglary Alarm	Printer fault restore	3 336 - Local printer failure restore
Fire alarm (##)	1 11A - Fire alarm	Fail to communicate with central station	3 354 - Fail to communicate restore
Zone alarm restore (##)	3 13A - Burglary Alarm Restore		
Fire alarm restore (##)	3 11A - Fire alarm Restore	Cold Start	1 3A8 - System shutdown
_		Test Report engaged	1 6A2 - Periodic test report
Panic 1 - Emergency	1 12A - Panic alarm	PC software communication finished	1 412 - Successful - download access
Panic 2 - Medical	1 1AA - Medical alarm	Installer on site	1 627 - Program mode Entry
Panic 3 - Fire	1 115 - Pull Station	Installer programming finished	1 628 - Program mode Exit
		Delinquency	1 654 - Inactivity
Recent closing	3 4AA - Open/Close		
Global zone shutdown	1 574 - Group bypass		
Duress alarm	1 121 - Duress		
Zone shutdown (##)	1 57A - Zone bypass		
Zone tampered (##)	1 144 - Sensor tamper		
Zone tamper restore (##)	3 144 - Sensor tamper restore		
AC Failure	1 3A1 - AC loss		
Battery Failure	1 3A9 - Battery test failure		

# **Bus Module Connections**

# **Printer Module (APR3-PRT1)**



- A Green "Locate" LED: Remains illuminated during power up
- **B** Red "Watchdog" LED: Flashes to indicate proper operation. If there is a communication failure, the red LED will flash ON for one second and OFF for one second.
- **C** Red "TX" LED: Flashes when the Printer Module is transmitting data through the serial port only.
- **D** 25-pin Parallel Port: Connect the Printer Module's 25-pin parallel port to any dot matrix printer. **Note: The dot matrix printer must support a minimum of 80 columns.**
- **E** 9-Pin Serial Port: Connect the Printer Module's 9-Pin serial port to a dot matrix printer. **Note: The dot matrix printer must support a minimum of 80 columns.**
- **F** 9-Pin Serial Port: Connect the Printer Module's 9-Pin serial port to a computer's COM port to view the control panel's events on the computer's monitor. The events displayed on the monitor can then be printed through the printer connected to the computer.



Remove AC power and battery before adding APR3-PRT1 to the system. Do not connect any modules more than 76m (250ft) from the control panel. Only one Printer Module can be connected per Spectra control panel.

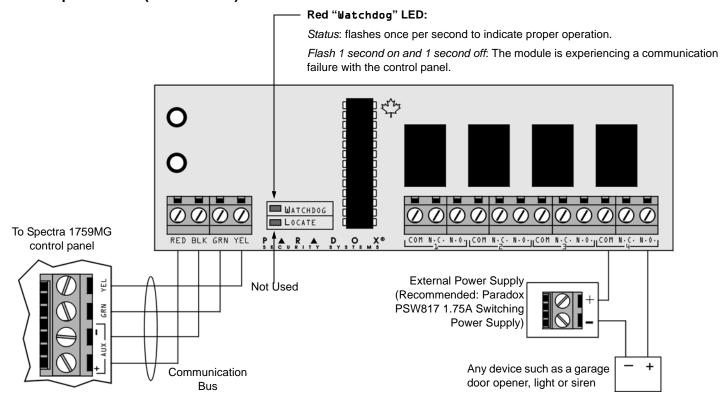
MR3-UL

COM

YELLOW

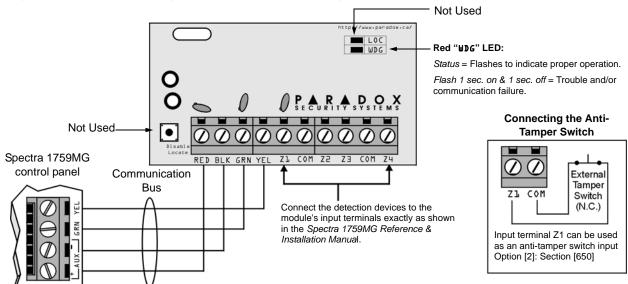
N.C. N.O.

# 4-PGM Output Module (APR3-PGM4)



Remove AC and battery from the control panel before adding the 4-PGM Output Module to the system. Do not connect the APR3-PGM4 more than 76m (250ft) from the control panel. Only one APR3-PGM4 can be connected per Spectra control panel.

# 4-zone expansion Bus Module (SPC-ZX4 and APR3-ZX4)

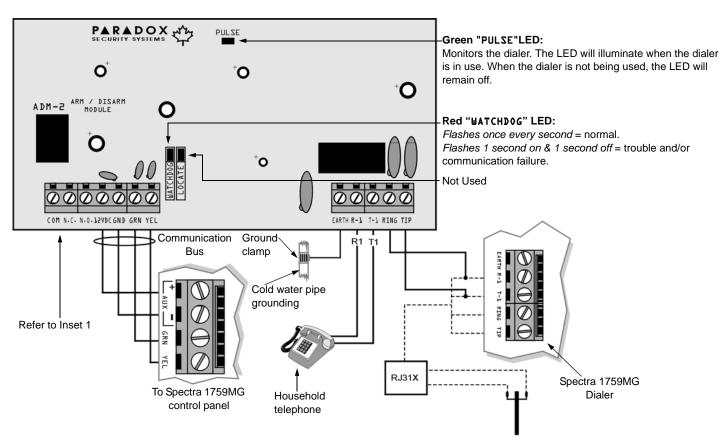


Remove AC and battery power from the control panel before connecting the module to the communication bus. Do not connect the APR3-ZX4 or SPC-ZX4 more than 76m (250ft) from the control panel. Only one APR3-ZX4 or one SPC-ZX4 can be connected per Spectra control panel.

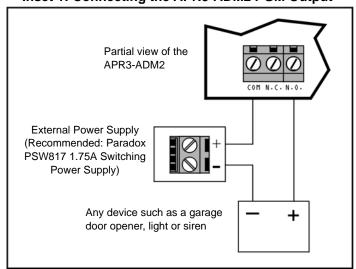


# TOUCE Voice-assisted Arm/Disarm Bus Module (APR3-ADM2)

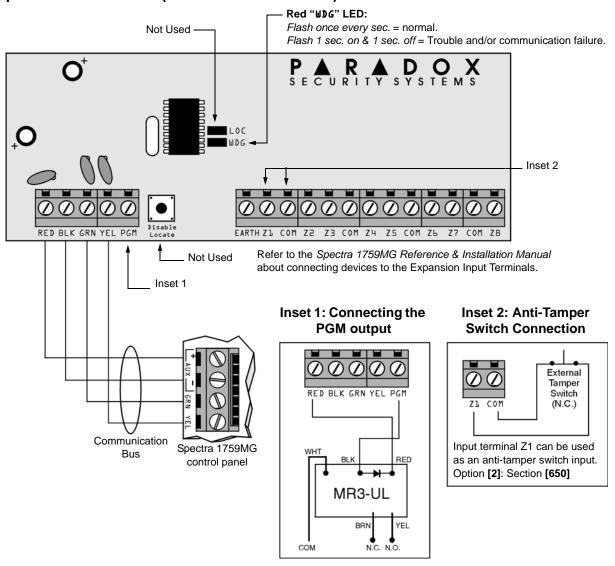
Remove AC and battery power from the control panel before adding the APR3-ADM2 module to the system. Do not connect the APR3-ADM2 more than 76m (250ft) from the control panel. Only one APR3-ADM2 can be connected per Spectra control panel.



Inset 1: Connecting the APR3-ADM2 PGM Output



# 8-Zone Expansion Bus Modules (SPC-ZX8 and APR3-ZX8)

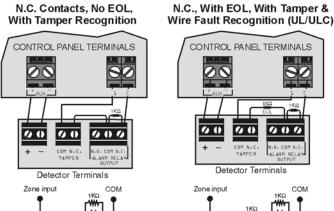


Remove AC power and battery before adding a module to the system. Do not connect the APR3-ZX8 or SPC-ZX8 more than 76m (250ft) from the control panel. Only one SPC-ZX8 or APR3-ZX8 can be connected per Spectra control panel.

# **Hardware Connections**

# Single Zone Inputs

N.C., With EOL N.O., With EOL N.C. Contacts. No EOL **UL/ULC** Configuration **UL/ULC Configuration** CONTROL PANEL TERMINALS CONTROL PANEL TERMINALS CONTROL PANEL TERMINALS 000 00 Detector Terminals Normally Closed Detector Terminals Detector Terminals Normally Open Zone input Zone input Zone input COM N.C. Contacts, No EOL, N.C., With EOL, With Tamper &



# Connecting Fire Circuits, Keyswitches and PGMs

TAMPER



Program the PGM with the "[PG]/[FNC1] Key was pressed" Activation Event so that the smoke detectors can be reset by pressing the [PG] or [FNC1] key. See Event Group # 5 on page 9.

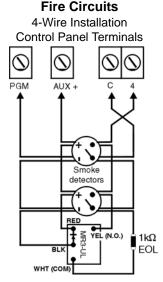


All 4-wire smoke detectors must be connected using the daisy chain configuration.

# Programming a Wireless Fire Zone

Fire zones cannot be assigned to expansion zones. As a result, when installing a wireless smoke detector, the corresponding zone must be programmed as follows:

- 1) Enter [5] in the Zone Definition to define it as a 24Hr Burglary Alarm (see page 7).
- Disable [4] and enable [5] in Zone Options to set the zone's alarm type to a pulsed Audible Alarm (see page 7).
- Disable [1] and [2] in Zone Options to disable the zone's Auto Zone Shutdown and Bypass Enabled features (see page 7).



TAMPER EOL

3 C

keyswitch

1KΩ

Keyswitch

PGM AUX+

WHT BLK RED

MR3-UL

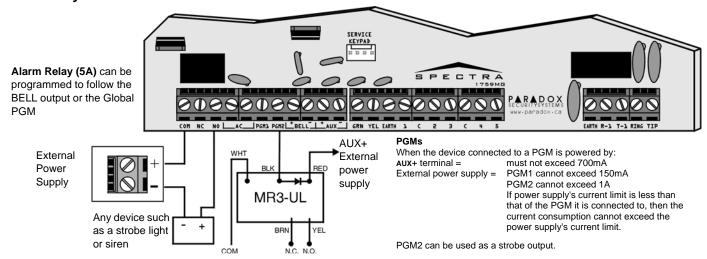
BRN YEL

COM N.C. N.O.

**PGM** 

4) Change the zone's report code from a Burglary Report Code (Prog. Value 11) to a Fire Report Code (Prog. Value 04). See *Appendix A* on page 30. If using Ademco Contact I.D., set the Contact ID Options from All Codes to Programmable (section [136] option [3] = OFF) and then enter the report code manually (see page 14).

# **Alarm Relay and PGM Connections**



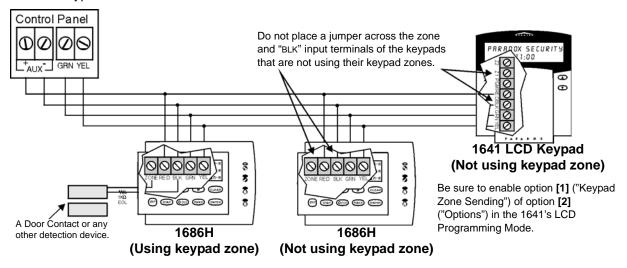
# **Connecting More Than Two Keypads**

If there are more than 2 keypads connected to the control panel and at least one keypad zone is being used, connect as shown and program as described in the Spectra 1759MG Reference & Installation Manual.



When a 1641 LCD keypad is connected to Spectra, the Keypad Zone Sending option (Option [2] key [1]) determines whether the status of the keypad zone will be transmitted to the control panel. Refer to the 1641 Installer's Guide for more information. The Keypad Zone Sending option of the 1641 keypad must be enabled during the following conditions:

- If you are using both keypad zones and at least one is from a 1641 keypad.
- If you are using the keypad zones of other types of keypads, such as a 1686H 10-zone LED keypad, and the keypad zone definition of the 1641 keypad (keypad zone 1 or keypad zone 2; Option [2] key [3]) matches that of another connected keypad.

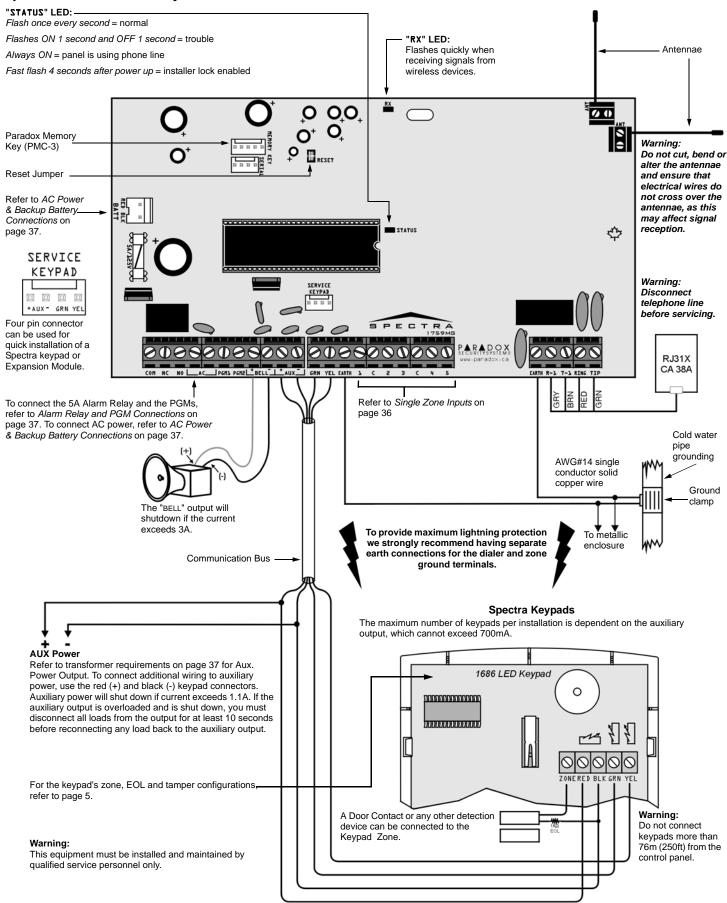


# **AC Power & Backup Battery Connections**

#### Transformer Requirements Table Partial view of Spectra 1759MG control panel Amseco XP-1620 Recommended: 16VAC 40VA Transformer: 16VAC 20VA 3 UL: Basler BE156240CAA007 Spectra DC Power 1.2A 1.5A Rechargeable Battery **UL Warning:** Supply rated at: UL/ULC - 12Vdc / 4Ah or 7Ah A 12Vdc / 7Ah battery is required to comply Auxiliary Supply can typ: 600mA typ: 600mA with UL fire max: 700mA max: 700mA provide a maximum of: reauirements. UL installations: typ. 200mA Caution: 350mA / 700mA Acceptable Battery 350mA Disconnect battery Warning: **Charge Currents** before replacing the Improper connection (section [127] option [5]) of the transformer may result in damage to the system.

<sup>\*</sup> Not verified by UL

# Spectra 1759MG PCB Layout



For UL and C-UL warnings, refer to the UL and C-UL Warnings section at the back of the Spectra 1759MG Reference & Installation Manual.

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