



# S P E C T R A™

## 1728EX, 1728, 1738EX AND 1738

### SYSTEM PROGRAMMING GUIDE

Software Version 2.1

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#### DEFAULT INSTALLER CODE

000000 (see section [281] on page 18)

#### DEFAULT SYSTEM MASTER CODE

123456 (see section [301] on page 18)

#### HOW DO I ENTER PROGRAMMING MODE?

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

#### DECIMAL AND HEXADECIMAL PROGRAMMING TABLE

Value or Action	What Do I Press?	What Do I See?		
		10-Zone LED	16-Zone LED	LCD
Values 1 to 9	[1] to [9]	[1] to [9]	[1] to [9]	[1] to [9]
A (hexa only)	[0]	[0 (10)]	[10]	0
B (hexa only)	[STAY]	[STAY]	[11]	B
C (hexa only)	[BYP]	[BYP]	[12]	C
D (hexa only)	[MEM]	[MEM]	[13]	D
E (hexa only)	[TBL] / [TRBL]	[TBL]	[14]	E
F (hexa 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 (hexa 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.

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>[1] - No Battery or Low Battery</li> <li>[2] - Wireless Transmitter Low Battery</li> <li>[3] - Power Failure</li> <li>[4] - Bell Output Disconnected</li> <li>[5] - Maximum Bell Current</li> <li>[6] - Maximum Auxiliary Current</li> <li>[7] - Communicator Report Failure</li> </ul> | <ul style="list-style-type: none"> <li>[8] - Timer Loss**</li> <li>[9] - Tamper or Zone Wiring Failure*</li> <li>[10] - Telephone Line Monitoring Failure</li> <li>[11]/[STAY] - Fire Loop Trouble*</li> <li>[12]/[BYP] - Module Loss</li> <li>[13]/[MEM] - Wireless Transmitter Supervision Loss*</li> <li>[16]/[FORCE] and [TBL]/[TRBL] flashes - Keypad Fault</li> </ul> |
|--|---|

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

\*\* press [8] to re-program the time.



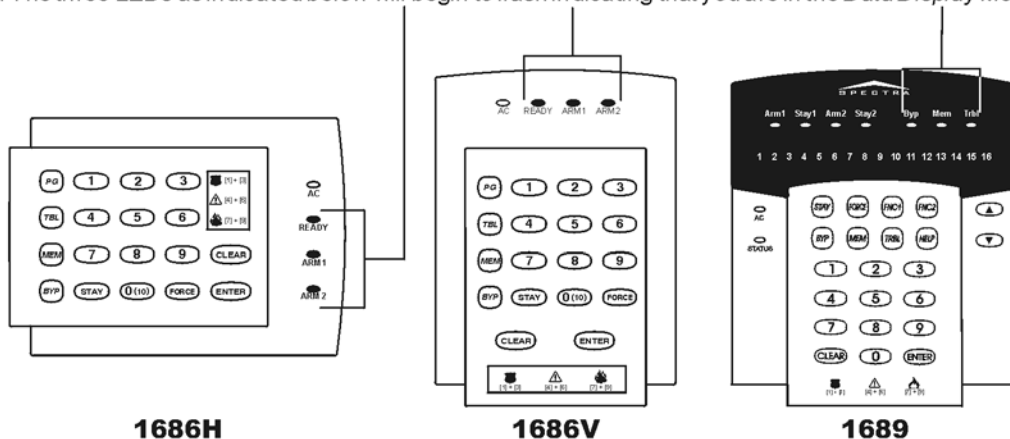
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## DATA DISPLAY MODE (LED Keypads Only)

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 tamper switch are programmed through the keypad's programming mode. To do so:

### How Do I Configure The Keypad?

STEP 1: Press [ENTER]

STEP 2: Enter your [INSTALLER CODE] (default: 000000)

STEP 3: Press the [PG] (1686H/V) / [FNC1] (1689) key and hold it for 3 seconds.

STEP 4: Press the desired key ([1] to [3]). See below)

STEP 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*.

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 1728EX and 1728 PCB Layout" on page 41 and "Spectra 1738EX and 1738 PCB Layout" on page 42 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 tamper switch. When key [3] is OFF (not illuminated), the tamper switch is disabled. When key [3] is ON (illuminated), the tamper switch is enabled.

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

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



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

## CONFIGURING THE 1686H, 1686V and 1689 KEYPADS (Prior to V2.0)

The keypad's zone number and EOL definition are defined through the jumpers located on the PCB board. The jumpers are as follows:

### J1 - Keypad Zone Select Jumper

Jumper J1 determines whether the keypad's zone is Keypad Zone 1 or Keypad Zone 2. When the jumper is OFF, the keypad's zone is Keypad Zone 2. When the jumper is ON, the keypad's zone is Keypad Zone 1.

J1 OFF - Keypad Zone 2

J1 ON - Keypad Zone 1

### J2 - EOL Definition Jumper

Jumper J2 determines the keypad zone's EOL definition. When the jumper is OFF, EOL is disabled and the keypad zone uses the on-board EOL resistor. When the jumper is ON, EOL is enabled and the keypad zone requires that an external EOL resistor be connected (refer to "Spectra 1728EX and 1728 PCB Layout" on page 41 and "Spectra 1738EX and 1738 PCB Layout" on page 42 for more details).

J2 OFF - EOL disabled

J2 ON - EOL enabled

## ZONE PROGRAMMING

When programming zones, the zone assignments are dependent on where the detection devices in the system are connected. **Do not assign inputs from different modules to the same expansion input.** In 1728/EX control panel installations that require using mostly the expansion inputs, refer to Reassign Zones to Expansion Inputs (see section [126] option [8]).

*Zone Recognition Table*

Device connected to which input?	1728/EX	1728	1728/EX With Re-assign Keypad Zone 2 enabled (see page 11)		1738/EX	1738	1738/EX With Re-assign Keypad Zone 2 enabled (see page 11)	
	NO ATZ	WITH ATZ	NO ATZ	WITH ATZ	NO ATZ	WITH ATZ	NO ATZ	WITH ATZ
<b>Control Panel</b>								
Input 1 =	Zone 1	Zone 1 & 6	Zone 1	Zone 1 & 6	Zone 1	Zone 1 & 8	Zone 1	Zone 1 & 8
Input 2 =	Zone 2	Zone 2 & 7	Zone 2	Zone 2 & 7	Zone 2	Zone 2 & 9	Zone 2	Zone 2 & 9
Input 3 =	Zone 3	Zone 3 & 8	Zone 3	Zone 3 & 8	Zone 3	Zone 3 & 10	Zone 3	Zone 3 & 10
Input 4 =	Zone 4	Zone 4 & 9	Zone 4	Zone 4 & 9	Zone 4	Zone 4 & 11	Zone 4	Zone 4 & 11
Input 5 =	Zone 5	Zone 5 & 10	Zone 5	Zone 5 & 10	Zone 5	Zone 5 & 12	Zone 5	Zone 5 & 12
Input 6 =	N/A	N/A	N/A	N/A	Zone 6	Zone 6 & 13	Zone 6	Zone 6 & 13
Input 7 =	N/A	N/A	N/A	N/A	Zone 7	Zone 7 & 14	Zone 7	Zone 7 & 14
<b>Keypad</b>								
Zone 1 =	Zone 6	Zone 11	Zone 6	Zone 11	Zone 8	Zone 15	Zone 8	Zone 15
Zone 2 =	Zone 7	Zone 12	N/A	N/A	Zone 9	Zone 16	N/A	N/A
<b>Expansion</b>								
Input 1 =	Zone 8	Zone 13	Zone 7	Zone 12	Zone 10	N/A	Zone 9	Zone 16
Input 2 =	Zone 9	Zone 14	Zone 8	Zone 13	Zone 11	N/A	Zone 10	N/A
Input 3 =	Zone 10	Zone 15	Zone 9	Zone 14	Zone 12	N/A	Zone 11	N/A
Input 4 =	Zone 11	Zone 16	Zone 10	Zone 15	Zone 13	N/A	Zone 12	N/A
Input 5 =	Zone 12	N/A	Zone 11	Zone 16	Zone 14	N/A	Zone 13	N/A
Input 6 =	Zone 13	N/A	Zone 12	N/A	Zone 15	N/A	Zone 14	N/A
Input 7 =	Zone 14	N/A	Zone 13	N/A	Zone 16	N/A	Zone 15	N/A
Input 8 =	Zone 15	N/A	Zone 14	N/A	N/A	N/A	Zone 16	N/A

### How Do I Program the Zones?

- STEP 1: Press the [ENTER] key
- STEP 2: Enter the [INSTALLER CODE] (Default: 000000)
- STEP 3: Enter 3-digit [SECTION]
- STEP 4: Enter one digit from the **Zone Definition** table
- STEP 5: Enter one digit from the **Partition Assignment** table
- STEP 6: Select one or more options from the **Zone Options** table
- STEP 7: Press the [ENTER] key

ZONE DEFINITION	
<b>Empty</b>	- Zone Disabled
1	- Entry Delay 1
2	- Entry Delay 2
3	- Follow
4	- Instant
5	- 24Hr. Burglary
6	- 24Hr. Buzzer
Additional definitions for on-board terminals:	
7	- Keyswitch
8	- Fire 24 Hr.
9	- Delayed Fire 24 Hr.

PARTITION ASSIGNMENT	
<b>Empty</b>	- Zone Disabled
1	- Partition 1
2	- Partition 2
3	- Both Partitions

ZONE OPTIONS	
1	- Auto Zone Shutdown
2	- Bypassable Zone
3	- Stay Zone
4 - 5	- <u>Zone Alarm Type</u>
off off	Audible alarm (steady)
off on	Audible alarm (pulsed)
on off	Silent alarm
on on	Generates a report only
6	- Intellizone
7	- Delay alarm transmission
8	- Force Zone
KEYSWITCH OPTIONS	
1	- off = Maintained on = Momentary
2	- off = Regular Arm on = Stay Arm



[FORCE] key = empty

First Digit

Second Digit

Section	Description	Zone Definition	Partition Assignment	Zone Options
[001]	= Zone 01:	_____	_____	1 2 3 4 5 6 7 8
[002]	= Zone 02:	_____	_____	1 2 3 4 5 6 7 8
[003]	= Zone 03:	_____	_____	1 2 3 4 5 6 7 8
[004]	= Zone 04:	_____	_____	1 2 3 4 5 6 7 8
[005]	= Zone 05:	_____	_____	1 2 3 4 5 6 7 8
[006]	= Zone 06:	_____	_____	1 2 3 4 5 6 7 8
[007]	= Zone 07:	_____	_____	1 2 3 4 5 6 7 8
[008]	= Zone 08:	_____	_____	1 2 3 4 5 6 7 8
[009]	= Zone 09:	_____	_____	1 2 3 4 5 6 7 8
[010]	= Zone 10:	_____	_____	1 2 3 4 5 6 7 8
[011]	= Zone 11:	_____	_____	1 2 3 4 5 6 7 8
[012]	= Zone 12:	_____	_____	1 2 3 4 5 6 7 8
[013]	= Zone 13:	_____	_____	1 2 3 4 5 6 7 8
[014]	= Zone 14:	_____	_____	1 2 3 4 5 6 7 8
[015]	= Zone 15:	_____	_____	1 2 3 4 5 6 7 8
[016]	= Zone 16:	_____	_____	1 2 3 4 5 6 7 8
<b>Defaults =</b>		<b>Empty</b>	<b>Partition 1</b>	<b>1 and 2 ON</b>

**!** Only the control panel's on-board inputs can be defined as a Fire, Delayed Fire or a Keyswitch zone. In the 1728EX and 1728 the on-board zones are zones 01 to 05 and in the 1738EX and 1738 the on-board zones are zones 01 to 07.

## 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]	___/___/___ x 10 msec.	ZONE SPEED (ZONE 16)	600 msec.
<b>NOTE:</b> If ATZ is enabled (section [132] option [5]), do not set the Zone Speed to less than 50msec. as this may cause false alarms.			
[066]	___/___/___ seconds (000 = follow Deactivation Event)	PGM1 TIMER	5 sec.
[067]	___/___/___ seconds (000 = follow Deactivation Event)	PGM2 TIMER (FOR 1738 & 1738EX ONLY)	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 128 to 255 = -1 to -127 seconds	CLOCK ADJUST	Disabled
[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
[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

\* Maximum 60 seconds for UL listed systems.

\*\* 5 minutes minimum for ULC installations.

## 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]	PGM 1 PGM Activation Event	___/___	___/___	___/___
[121]	PGM 1 PGM Deactivation Event	___/___	___/___	___/___
<i>PGM2 for 1738EX and 1738 only:</i>				
[122]	PGM 2 PGM Activation Event	___/___	___/___	___/___
[123]	PGM 2 PGM Deactivation Event	___/___	___/___	___/___
[124]	Global PGM Activation Event	___/___	___/___	___/___
[125]	Global PGM Deactivation Event <i>Used to activate PGMs on expansion modules &amp; LCD keypads.</i>	___/___	___/___	___/___

01 = Partition 1  
02 = Partition 2  
99 = Any Partition

*The Sub-Groups preceded by "(Partition 1)" cannot be assigned to activate Partition 2.*

Event Group #	Sub-Group #
<b>00 = Zone OK</b>	01 to 16 = Zones 1 to 16 99 = Any Zone
<b>01 = Zone Open</b>	01 to 16 = Zones 1 to 16 99 = Any Zone
<b>02 = Partition Status</b>	00 = System not ready ( <i>Partition 1 only</i> ) 01 = System ready ( <i>Partition 1 only</i> ) 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 ( <i>Partition 1 only</i> ) 07 = Bell Squawk Deactivated ( <i>Partition 1 only</i> ) 08 = Ground start ( <i>Partition 1 only</i> ) 09 = Disarm Partition 10 = Arm Partition 11 = Entry Delay (breach when system is armed) 99 = Any Sub-Group
<b>05 = Non-Reportable Events</b>	00 = Telephone Line Trouble ( <i>Partition 1 only</i> ) 01 = [PG] or [FNC1] key was pressed ( <i>Partition 1 only</i> ) 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, except 02 to 05</i> )
<b>06 = Arm/Disarm with Remote Control</b>	01 to 08 = Remote Controls 1 to 8 99 = Any Remote Control
<b>07 = Button Pressed on Remote</b> <i>(see button option "B" on page 26)</i>	01 to 08 = Remote Controls 1 to 8 99 = Any Remote Control
<b>08 = Button Pressed on Remote</b> <i>(see button option "C" on page 26)</i>	01 to 08 = Remote Controls 1 to 8 99 = Any Remote Control



Event Group #	Sub-Group #
<b>09 = Button Pressed on Remote</b> (see <i>button option "D"</i> on page 26)	01 to 08 = Remote Controls 1 to 8 99 = Any Remote Control
<b>10 = Bypass Programming</b>	01 to 48 = User Code Numbers 001 to 048 99 = Any User Code
<b>11 = User Activated PGM</b>	01 to 48 = User Code Numbers 001 to 048 ( <i>Partition 1 only</i> ) 99 = Any User Code
<b>12 = Zone with Delay Transmission Option Enabled is Breached</b>	01 to 16 = Zones 1 to 16 99 = Any Zone
<b>13 = Arm with User Code</b>	01 to 48 = User Code Numbers 001 to 048 99 = Any User Code
<b>14 = Special Arm</b>	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 99 = Any Sub-Group
<b>15 = Disarm with User Code</b>	01 to 48 = User Code Numbers 001 to 048 99 = Any User Code
<b>16 = Disarm After Alarm w/ User Code</b>	01 to 48 = User Code Numbers 001 to 048 99 = Any User Code
<b>17 = Cancel Alarm with User Code</b>	01 to 48 = User Code Numbers 001 to 048 99 = Any User Code
<b>18 = Special Disarm</b>	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
<b>19 = Zone Bypassed on Arming</b>	01 to 16 = Zones 1 to 16 99 = Any Zone
<b>20 = Zone in Alarm</b>	01 to 16 = Zones 1 to 16 99 = Any Zone
<b>21 = Fire Alarm</b>	1728/EX: 01 to 05 = Zones 1 to 5 (on-board inputs) 1738/EX: 01 to 07 = Zones 1 to 7 (on-board inputs) 99 = Any Zone
<b>22 = Zone Alarm Restore</b>	01 to 16 = Zones 1 to 16 99 = Any Zone
<b>23 = Fire Alarm Restore</b>	1728/EX: 01 to 05 = Zones 1 to 5 (on-board inputs) 1738/EX: 01 to 07 = Zones 1 to 7 (on-board inputs) 99 = Any Zone
<b>24 = Special Alarm</b>	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
<b>25 = Auto Zone Shutdown</b>	01 to 16 = Zones 1 to 16 99 = Any Zone
<b>26 = Zone Tamper</b>	01 to 16 = Zones 1 to 16 99 = Any Zone
<b>27 = Zone Tamper Restore</b>	01 to 16 = Zones 1 to 16 99 = Any Zone

Event Group #	Sub-Group #
<b>28 = System Trouble</b>	01 = AC Loss: only after <i>Power Failure Delay</i> has elapsed ( <i>Partition 1 only</i> ) 02 = Battery Failure ( <i>Partition 1 only</i> ) 03 = Auxiliary current overload ( <i>Partition 1 only</i> ) 04 = Bell current overload ( <i>Partition 1 only</i> ) 05 = Bell disconnected ( <i>Partition 1 only</i> ) 06 = Timer Loss ( <i>Partition 1 only</i> ) 07 = Fire Loop Trouble ( <i>Partition 1 only</i> ) 08 = Future Use 09 = Module Fault ( <i>Partition 1 only</i> ) 10 = Printer Fault ( <i>Partition 1 only</i> ) 11 = Fail to Communicate ( <i>Partition 1 only</i> ) 99 = Any Sub-Group ( <i>Partition 1 only</i> )
<b>29 = System Trouble Restore</b>	00 = TLM restore ( <i>Partition 1 only</i> ) 01 = AC Loss restore ( <i>Partition 1 only</i> ) 02 = Battery Failure restore ( <i>Partition 1 only</i> ) 03 = Auxiliary current overload restore ( <i>Partition 1 only</i> ) 04 = Bell current overload restore ( <i>Partition 1 only</i> ) 05 = Bell disconnected restore ( <i>Partition 1 only</i> ) 06 = Timer Programmed ( <i>Partition 1 only</i> ) 07 = Fire Loop Trouble restore ( <i>Partition 1 only</i> ) 08 = Future Use 09 = Module Fault restore ( <i>Partition 1 only</i> ) 10 = Printer Fault restore ( <i>Partition 1 only</i> ) 11 = Fail to Communicate restore ( <i>Partition 1 only</i> ) 99 = Any Trouble Restore ( <i>Partition 1 only</i> )
<b>30 = Special Reporting</b>	00 = System Power Up ( <i>Partition 1 only</i> ) 01 = Test Report ( <i>Partition 1 only</i> ) 02 = WinLoad Software Access ( <i>Partition 1 only</i> ) 03 = WinLoad Software Access finished ( <i>Partition 1 only</i> ) 04 = Installer enters programming mode ( <i>Partition 1 only</i> ) 05 = Installer exits programming mode ( <i>Partition 1 only</i> ) 99 = Any Sub-Group ( <i>Partition 1 only</i> )
<b>31 = Wireless Transmitter Supervision Loss</b>	01 to 16 = Zones 1 to 16 99 = Any Zone
<b>32 = Wireless Transmitter Supervision Loss Restore</b>	01 to 16 = Zones 1 to 16 99 = Any Zone
<b>33 = Arming with a Keyswitch</b>	1728/EX: 01 to 05 = Zones 1 to 5 (on-board inputs) 1738/EX: 01 to 07 = Zones 1 to 7 (on-board inputs) 99 = Any Zone
<b>34 = Disarming with a Keyswitch</b>	1728/EX: 01 to 05 = Zones 1 to 5 (on-board inputs) 1738/EX: 01 to 07 = Zones 1 to 7 (on-board inputs) 99 = Any Zone
<b>35 = Disarm after Alarm with a Keyswitch</b>	1728/EX: 01 to 05 = Zones 1 to 5 (on-board inputs) 1738/EX: 01 to 07 = Zones 1 to 7 (on-board inputs) 99 = Any Zone
<b>36 = Cancel Alarm with a Keyswitch</b>	1728/EX: 01 to 05 = Zones 1 to 5 (on-board inputs) 1738/EX: 01 to 07 = Zones 1 to 7 (on-board inputs) 99 = Any Zone
<b>37 = Wireless Transmitter Low Battery</b>	01 to 16 = Zones 1 to 16 99 = Any Zone
<b>38 = Wireless Transmitter Low Battery Restore</b>	01 to 16 = Zones 1 to 16 99 = Any Zone

Event Group #	Sub-Group #	Partition #
<b>80 = PGM follows Clock (APR3-PGM4 only)</b>	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	<input type="checkbox"/> Disabled	<input type="checkbox"/> Enabled
[2] To Exit Confidential Mode	<input type="checkbox"/> Enter Access Code	<input type="checkbox"/> Press a Key
[3] Confidential Mode Timer	<input type="checkbox"/> 2 minutes	<input type="checkbox"/> 5 seconds
[4] PGM1 Normal State	<input type="checkbox"/> Normally Open (N.O.)	<input type="checkbox"/> Normally Closed (N.C.)
[5] PGM2 Normal State (1738EX and 1738 only)	<input type="checkbox"/> Normally Open (N.O.)	<input type="checkbox"/> Normally Closed (N.C.)
[6] Global PGM Normal State	<input type="checkbox"/> Normally Open (N.O.)	<input type="checkbox"/> Normally Closed (N.C.)
[7] Reassign Keypad Zone 2	<input type="checkbox"/> Disabled	<input type="checkbox"/> Enabled
[8] Reassign Zones to Expansion Inputs* (1728EX and 1728 only)	<input type="checkbox"/> Disabled	<input type="checkbox"/> Enabled

\* Reassign Zones to Expansion Inputs changes the zone numbering to increase the number of expansion inputs that can be displayed on 10-Zone LED Keypads. Refer to 1728EX, 1728, 1738EX and 1738 Reference & Installation Manual for details.

### SECTION [127]: General Options

Option	OFF	ON
[1] Partitioning	<input type="checkbox"/> Disabled	<input type="checkbox"/> Enabled
[2] Access Code Length	<input type="checkbox"/> 6-digits	<input type="checkbox"/> 4-digits
[3] Keypad Audible Trouble Warning	<input type="checkbox"/> Disabled	<input type="checkbox"/> Enabled
[4] Lock System Master Code	<input type="checkbox"/> Disabled	<input type="checkbox"/> Enabled
[5] Battery Charge Current	<input type="checkbox"/> 350mA	<input type="checkbox"/> 700mA
[6] User Code 048 is a Duress Code	<input type="checkbox"/> Disabled	<input type="checkbox"/> Enabled
[7] Alarm Relay follows (1738EX and 1738 only)	<input type="checkbox"/> Bell Output	<input type="checkbox"/> Global PGM
[8] Future Use	<input type="checkbox"/> N/A	<input type="checkbox"/> N/A

### SECTION [128]: General Options

Option	OFF	ON
[1] Panic 1: Keys [1] & [3]	<input type="checkbox"/> Disabled	<input type="checkbox"/> Enabled
[2] Panic 2: Keys [4] & [6]	<input type="checkbox"/> Disabled	<input type="checkbox"/> Enabled
[3] Panic 3: Keys [7] & [9]	<input type="checkbox"/> Disabled	<input type="checkbox"/> Enabled
[4] Panic 1: Silent or Audible	<input type="checkbox"/> Silent	<input type="checkbox"/> Audible
[5] Panic 2: Silent or Audible	<input type="checkbox"/> Silent	<input type="checkbox"/> Audible
[6] Panic 3: Silent or Fire	<input type="checkbox"/> Silent	<input type="checkbox"/> Fire
[7] Keypad 1 Tamper Supervision	<input type="checkbox"/> Disabled	<input type="checkbox"/> Enabled
[8] Keypad 2 Tamper Supervision	<input type="checkbox"/> Disabled	<input type="checkbox"/> Enabled

### SECTION [129]: General Options

Option	OFF	ON
[1] PGM2 Output Activation Option *	<input type="checkbox"/> Steady	<input type="checkbox"/> Pulse (flash)
[2] PGM2 Pulse Once Every 30sec if System Armed *	<input type="checkbox"/> Disabled	<input type="checkbox"/> Enabled
[3] PGM2 Pulse On Arm, Twice On Disarm *	<input type="checkbox"/> Disabled	<input type="checkbox"/> Enabled
[4] ZX4 & ZX8 Zone Expansion Module Supervision	<input type="checkbox"/> Disabled	<input type="checkbox"/> Enabled
[5] Wireless Module Supervision	<input type="checkbox"/> Disabled	<input type="checkbox"/> Enabled
[6] Wireless Module Low Battery Supervision	<input type="checkbox"/> Disabled	<input type="checkbox"/> Enabled
[7] 4-Output Bus Module Supervision (APR3-PGM4)	<input type="checkbox"/> Disabled	<input type="checkbox"/> Enabled
[8] Printer Module Supervision (APR3-PRT1)	<input type="checkbox"/> Disabled	<input type="checkbox"/> Enabled

\* for 1738EX and 1738 only

**Bold = Default Setting**

## SECTION [130]: Arming/Disarming Options

Option	OFF	ON
[1] <i>One-Touch Regular Arming*</i>	<input type="checkbox"/> Disabled	<input type="checkbox"/> Enabled
[2] <i>One-Touch Stay Arming*</i>	<input type="checkbox"/> Disabled	<input type="checkbox"/> Enabled
[3] <i>One-Touch Force Arming*</i>	<input type="checkbox"/> Disabled	<input type="checkbox"/> Enabled
[4] <i>One-Touch Bypass Programming*</i>	<input type="checkbox"/> Disabled	<input type="checkbox"/> Enabled
[5] <i>Restrict Arming on Battery Failure</i>	<input type="checkbox"/> Disabled	<input type="checkbox"/> Enabled
[6] <i>Restrict Arming on Tamper Failure</i>	<input type="checkbox"/> Disabled	<input type="checkbox"/> Enabled
[7] <i>Bell Squawk on Arm/Disarm with Keypad</i>	<input type="checkbox"/> Disabled	<input type="checkbox"/> Enabled
[8] <i>Beep on Exit Delay</i>	<input type="checkbox"/> Disabled	<input type="checkbox"/> <b>Enabled</b>

## SECTION [131]: Arming/Disarming Options

Option	OFF	ON
[1] <i>Report Disarming</i>	<input type="checkbox"/> Always	<input type="checkbox"/> <b>Only after alarm</b>
[2] <i>Regular Arming Switches to Force Arming*</i>	<input type="checkbox"/> <b>Disabled</b>	<input type="checkbox"/> Enabled
[3] <i>Bell Squawk on Arm/Disarm with Remote Control (must be enabled for UL installations)</i>	<input type="checkbox"/> <b>Disabled</b>	<input type="checkbox"/> Enabled
[4] <i>No Exit Delay When Arming with a Remote Control</i>	<input type="checkbox"/> <b>Disabled</b>	<input type="checkbox"/> Enabled
[5] <i>No Exit Delay Beeps and No Bell Squawk When Stay Arming</i>	<input type="checkbox"/> <b>Disabled</b>	<input type="checkbox"/> Enabled
[6] <i>Restrict Arming On Wireless Transmitter Supervision Loss</i>	<input type="checkbox"/> <b>Disabled</b>	<input type="checkbox"/> Enabled
[7] <i>Generate Supervision Loss if Detected on Bypassed Wireless Zone</i>	<input type="checkbox"/> <b>Yes</b>	<input type="checkbox"/> No
[8] <i>Future Use</i>	<input type="checkbox"/> <b>N/A</b>	<input type="checkbox"/> N/A

## SECTION [132]: Zone Options

Option	OFF	ON																	
[1]&[2]	<table border="1"> <thead> <tr> <th colspan="2">Tamper Recognition Options</th> </tr> <tr> <th>[1]</th> <th>[2]</th> </tr> </thead> <tbody> <tr> <td>OFF</td> <td>OFF</td> <td><b>Disabled (default)</b></td> </tr> <tr> <td>OFF</td> <td>ON</td> <td>When disarmed: GENERATES TROUBLE ONLY When armed: Follows <i>Zone Alarm Types</i></td> </tr> <tr> <td>ON</td> <td>OFF</td> <td>When disarmed: GENERATES SILENT ALARM When armed: Follows <i>Zone Alarm Types</i></td> </tr> <tr> <td>ON</td> <td>ON</td> <td>When disarmed: GENERATES AUDIBLE ALARM When armed: Follows <i>Zone Alarm Types</i></td> </tr> </tbody> </table>	Tamper Recognition Options		[1]	[2]	OFF	OFF	<b>Disabled (default)</b>	OFF	ON	When disarmed: GENERATES TROUBLE ONLY When armed: Follows <i>Zone Alarm Types</i>	ON	OFF	When disarmed: GENERATES SILENT ALARM When armed: Follows <i>Zone Alarm Types</i>	ON	ON	When disarmed: GENERATES AUDIBLE ALARM When armed: Follows <i>Zone Alarm Types</i>	<input type="checkbox"/> see table <input type="checkbox"/> see table	<input type="checkbox"/> see table <input type="checkbox"/> see table
Tamper Recognition Options																			
[1]	[2]																		
OFF	OFF	<b>Disabled (default)</b>																	
OFF	ON	When disarmed: GENERATES TROUBLE ONLY When armed: Follows <i>Zone Alarm Types</i>																	
ON	OFF	When disarmed: GENERATES SILENT ALARM When armed: Follows <i>Zone Alarm Types</i>																	
ON	ON	When disarmed: GENERATES AUDIBLE ALARM When armed: Follows <i>Zone Alarm Types</i>																	
[3] <i>Generate Tamper if detected on Bypassed Zone</i>	<input type="checkbox"/> <b>Yes</b>	<input type="checkbox"/> No																	
[4] <i>EOL (end-of-line) Resistors</i>	<input type="checkbox"/> <b>No EOL</b>	<input type="checkbox"/> Use EOL Resistors																	
[5] <i>ATZ Zone Doubling (1728 and 1738 only)</i>	<input type="checkbox"/> <b>Disabled</b>	<input type="checkbox"/> Enabled																	
[6] <i>Report Zone Restore</i>	<input type="checkbox"/> <b>On Bell Cut-off</b>	<input type="checkbox"/> On Zone Closure																	
[7]&[8]	<table border="1"> <thead> <tr> <th colspan="2">Wireless Transmitter Supervision Options</th> </tr> <tr> <th>[7]</th> <th>[8]</th> </tr> </thead> <tbody> <tr> <td>OFF</td> <td>OFF</td> <td><b>Disabled (default)</b></td> </tr> <tr> <td>OFF</td> <td>ON</td> <td>When disarmed: GENERATES TROUBLE ONLY When armed: Follows <i>Zone Alarm Types</i></td> </tr> <tr> <td>ON</td> <td>OFF</td> <td>When disarmed: GENERATES SILENT ALARM When armed: Follows <i>Zone Alarm Types</i></td> </tr> <tr> <td>ON</td> <td>ON</td> <td>When disarmed: GENERATES AUDIBLE ALARM When armed: Follows <i>Zone Alarm Types</i></td> </tr> </tbody> </table>	Wireless Transmitter Supervision Options		[7]	[8]	OFF	OFF	<b>Disabled (default)</b>	OFF	ON	When disarmed: GENERATES TROUBLE ONLY When armed: Follows <i>Zone Alarm Types</i>	ON	OFF	When disarmed: GENERATES SILENT ALARM When armed: Follows <i>Zone Alarm Types</i>	ON	ON	When disarmed: GENERATES AUDIBLE ALARM When armed: Follows <i>Zone Alarm Types</i>	<input type="checkbox"/> see table <input type="checkbox"/> see table	<input type="checkbox"/> see table <input type="checkbox"/> see table
Wireless Transmitter Supervision Options																			
[7]	[8]																		
OFF	OFF	<b>Disabled (default)</b>																	
OFF	ON	When disarmed: GENERATES TROUBLE ONLY When armed: Follows <i>Zone Alarm Types</i>																	
ON	OFF	When disarmed: GENERATES SILENT ALARM When armed: Follows <i>Zone Alarm Types</i>																	
ON	ON	When disarmed: GENERATES AUDIBLE ALARM When armed: Follows <i>Zone Alarm Types</i>																	

\* Not to be used with UL installations.

**Bold = Default Setting**

**SECTION [133]: Partition 1 Options**

Option	OFF	ON
[1] <i>Auto-Arm on Time</i>	<input type="checkbox"/> <b>Disabled</b>	<input type="checkbox"/> Enabled
[2] <i>Auto-Arm on No Movement</i>	<input type="checkbox"/> <b>Disabled</b>	<input type="checkbox"/> Enabled
[3] <i>Auto Arming = Regular or Stay*</i>	<input type="checkbox"/> <b>Regular Arming</b>	<input type="checkbox"/> Stay Arming
[4] <i>Switch to Stay Arming if no entry delay is opened</i>	<input type="checkbox"/> <b>Disabled</b>	<input type="checkbox"/> Enabled
[5] <i>Stay Arming with Delay Partition 1 (Delay = [070])</i>	<input type="checkbox"/> <b>Disabled</b>	<input type="checkbox"/> Enabled
[6] <i>Future Use</i>	<input type="checkbox"/> <b>N/A</b>	<input type="checkbox"/> N/A
[7] <i>Future Use</i>	<input type="checkbox"/> <b>N/A</b>	<input type="checkbox"/> N/A
[8] <i>Future Use</i>	<input type="checkbox"/> <b>N/A</b>	<input type="checkbox"/> N/A

**SECTION [134]: Partition 2 Options**

Option	OFF	ON
[1] <i>Auto-Arm on Time</i>	<input type="checkbox"/> <b>Disabled</b>	<input type="checkbox"/> Enabled
[2] <i>Auto-Arm on No Movement</i>	<input type="checkbox"/> <b>Disabled</b>	<input type="checkbox"/> Enabled
[3] <i>Auto Arming = Regular or Stay*</i>	<input type="checkbox"/> <b>Regular Arming</b>	<input type="checkbox"/> Stay Arming
[4] <i>Switch to Stay Arming if no entry delay is opened</i>	<input type="checkbox"/> <b>Disabled</b>	<input type="checkbox"/> Enabled
[5] <i>Stay Arming with Delay Partition 2 (Delay = [070])</i>	<input type="checkbox"/> <b>Disabled</b>	<input type="checkbox"/> Enabled
[6] <i>Future Use</i>	<input type="checkbox"/> <b>N/A</b>	<input type="checkbox"/> N/A
[7] <i>Future Use</i>	<input type="checkbox"/> <b>N/A</b>	<input type="checkbox"/> N/A
[8] <i>Future Use</i>	<input type="checkbox"/> <b>N/A</b>	<input type="checkbox"/> N/A

**SECTION [135]: Dialer Options**

Option	OFF	ON																		
[1]&[2]	<table border="1"> <thead> <tr> <th colspan="3">Telephone Line Monitoring (TLM) Options</th> </tr> <tr> <th>[1]</th> <th>[2]</th> <th></th> </tr> </thead> <tbody> <tr> <td>OFF</td> <td>OFF</td> <td>TLM Disabled (default)</td> </tr> <tr> <td>OFF</td> <td>ON</td> <td>TLM generates a trouble if armed</td> </tr> <tr> <td>ON</td> <td>OFF</td> <td>TLM generates an audible alarm if armed</td> </tr> <tr> <td>ON</td> <td>ON</td> <td>Silent alarms become audible</td> </tr> </tbody> </table>	Telephone Line Monitoring (TLM) Options			[1]	[2]		OFF	OFF	TLM Disabled (default)	OFF	ON	TLM generates a trouble if armed	ON	OFF	TLM generates an audible alarm if armed	ON	ON	Silent alarms become audible	<input type="checkbox"/> see table <input type="checkbox"/> see table
Telephone Line Monitoring (TLM) Options																				
[1]	[2]																			
OFF	OFF	TLM Disabled (default)																		
OFF	ON	TLM generates a trouble if armed																		
ON	OFF	TLM generates an audible alarm if armed																		
ON	ON	Silent alarms become audible																		
[3] <i>Reporting (Dialer)</i>	<input type="checkbox"/> <b>Disabled</b>	<input type="checkbox"/> Enabled																		
[4] <i>Dialing Method</i>	<input type="checkbox"/> Pulse Dialing	<input type="checkbox"/> <b>Tone (DTMF) Dialing</b>																		
[5] <i>Pulse Ratio</i>	<input type="checkbox"/> 1:2	<input type="checkbox"/> <b>1:1.5</b>																		
[6] <i>If armed, activate bell output on Com. Failure</i>	<input type="checkbox"/> <b>Disabled</b>	<input type="checkbox"/> Enabled																		
[7] <i>Future Use</i>	<input type="checkbox"/> <b>N/A</b>	<input type="checkbox"/> N/A																		
[8] <i>Future Use</i>	<input type="checkbox"/> <b>N/A</b>	<input type="checkbox"/> N/A																		

\* Not to be used with UL installations.

**Bold = Default Setting**

## SECTION [136]: Dialer Options

### Option

- [1] *Call Back WinLoad*
- [2] *Automatic Event Buffer Transmission*
- [3] *Contact I.D. Report Codes*
- [4] *Alternate Dial*
- [5] *If no dial tone is present*

[6]&[7]

Pager Reporting Format Dialer Options		
[6]	[7]	
OFF	OFF	1 call to pager or cellular telephone (default)
OFF	ON	2 calls to pager or cellular telephone
ON	OFF	3 calls to pager or cellular telephone
ON	ON	4 calls to pager or cellular telephone

- [8] *Future Use*

### OFF

- Disabled
- Disabled
- Programmable
- Disabled
- Continue after 4 sec.
- see table
- see table
  
- N/A

### ON

- Enabled
- Enabled
- All Codes (automatic)
- Enabled
- Hang-up after 16 sec.
- see table
- see table
  
- N/A

## SECTION [137]: Event Call Direction

### Option

- [1] *Call Telephone #1 for Arming/Disarming Report Codes*
- [2] *Call Telephone #2 for Arming/Disarming Report Codes*
- [3] *Call Telephone #1 for Alarm/Restore Report Codes*
- [4] *Call Telephone #2 for Alarm/Restore Report Codes*
- [5] *Call Telephone #1 for Tamper/Restore Report Codes*
- [6] *Call Telephone #2 for Tamper/Restore Report Codes*
- [7] *Future Use*
- [8] *Future Use*

### OFF

- Disabled
- Disabled
- Disabled
- Disabled
- Disabled
- Disabled
- N/A
- N/A

### ON

- Enabled
- Enabled
- Enabled
- Enabled
- Enabled
- Enabled
- N/A
- N/A

## SECTION [138]: Event Call Direction

### Option

- [1] *Call Telephone #1 for Trouble/Restore Report Codes*
- [2] *Call Telephone #2 for Trouble/Restore Report Codes*
- [3] *Call Telephone #1 for Special Report Codes*
- [4] *Call Telephone #2 for Special Report Codes*
- [5] *Future Use*
- [6] *Future Use*
- [7] *Future Use*
- [8] *Future Use*

### OFF

- Disabled
- Disabled
- Disabled
- Disabled
- N/A
- N/A
- N/A
- N/A

### ON

- Enabled
- Enabled
- Enabled
- Enabled
- N/A
- N/A
- N/A
- N/A


# COMMUNICATION SETTINGS

## Section #

[140]\*    \_\_\_ / \_\_\_  
          TEL1 TEL2

### REPORTING FORMATS\*

- 1 = ADEMCO SLOW (1400HZ, 1900HZ, 10BPS)
- 2 = SILENT KNIGHT FAST (1400HZ, 1900HZ, 20BPS)
- 3 = SESCOA (2300HZ, 1800HZ, 20BPS)
- 4 = ADEMCO EXPRESS (DTMF 4+2)
- 5 = **ADEMCO CONTACT ID (DEFAULT)** ALSO, SEE OPTION [3] IN SECTION [136]
- 6 = PAGER FORMAT

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

[141]    \_\_\_ / \_\_\_ / \_\_\_ / \_\_\_    PANEL IDENTIFIER (WINLOAD SOFTWARE)

[142]    \_\_\_ / \_\_\_ / \_\_\_ / \_\_\_    PC PASSWORD (WINLOAD SOFTWARE)

[143]    \_\_\_ / \_\_\_ / \_\_\_ / \_\_\_    PARTITION ACCOUNT NUMBER 1 (For less than 4 digits, use the [FORCE] key to enter blanks.)

[144]    \_\_\_ / \_\_\_ / \_\_\_ / \_\_\_    PARTITION ACCOUNT NUMBER 2 (For less than 4 digits, use the [FORCE] key to enter blanks.)

[150]    \_\_\_\_\_  
PC TELEPHONE NUMBER FOR WINLOAD SOFTWARE (32-digits, if less than 32 press [ENTER] to accept)

[151]    \_\_\_\_\_  
CENTRAL STATION TELEPHONE OR PAGER NUMBER 1 (32-digits, if less than 32 press [ENTER] to accept)

[152]    \_\_\_\_\_  
CENTRAL STATION TELEPHONE OR PAGER NUMBER 2 (32-digits, if less than 32 press [ENTER] to accept)

[153]    \_\_\_\_\_  
BACK UP TELEPHONE NUMBER (32-digits, if less than 32 press [ENTER] to accept)

### Special Keys for Telephone Numbers

[STAY] = *	[MEM] = Switch from pulse to tone dialing or vice versa	[FORCE] = Delete current digit
[BYP] = #	[TBL] or [TRBL] = 4-second pause	[PG] or [FNC1] = Inserts Blank Space

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

## REPORT CODES

**Ademco Slow, Silent Knight, SESCOA, Ademco Express and Pager Formats:** Enter the desired 1- or 2-digit hexa-value (0-F or 00-FF). **Ademco "Programmable" Format:** Enter the desired 2-digit hexa values from the "Ademco Report Code List - Programmable" (see Appendix A on page 31). 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 32).

## ARMING REPORT CODES

[160] \_\_\_ / \_\_\_ Access Code 01  
\_\_\_ / \_\_\_ Access Code 02  
\_\_\_ / \_\_\_ Access Code 03  
\_\_\_ / \_\_\_ Access Code 04

[165] \_\_\_ / \_\_\_ Access Code 21  
\_\_\_ / \_\_\_ Access Code 22  
\_\_\_ / \_\_\_ Access Code 23  
\_\_\_ / \_\_\_ Access Code 24

[170] \_\_\_ / \_\_\_ Access Code 41  
\_\_\_ / \_\_\_ Access Code 42  
\_\_\_ / \_\_\_ Access Code 43  
\_\_\_ / \_\_\_ Access Code 44

[161] \_\_\_ / \_\_\_ Access Code 05  
\_\_\_ / \_\_\_ Access Code 06  
\_\_\_ / \_\_\_ Access Code 07  
\_\_\_ / \_\_\_ Access Code 08

[166] \_\_\_ / \_\_\_ Access Code 25  
\_\_\_ / \_\_\_ Access Code 26  
\_\_\_ / \_\_\_ Access Code 27  
\_\_\_ / \_\_\_ Access Code 28

[171] \_\_\_ / \_\_\_ Access Code 45  
\_\_\_ / \_\_\_ Access Code 46  
\_\_\_ / \_\_\_ Access Code 47  
\_\_\_ / \_\_\_ Access Code 48

[162] \_\_\_ / \_\_\_ Access Code 09  
\_\_\_ / \_\_\_ Access Code 10  
\_\_\_ / \_\_\_ Access Code 11  
\_\_\_ / \_\_\_ Access Code 12

[167] \_\_\_ / \_\_\_ Access Code 29  
\_\_\_ / \_\_\_ Access Code 30  
\_\_\_ / \_\_\_ Access Code 31  
\_\_\_ / \_\_\_ Access Code 32

## SPECIAL ARMING CODES

[163] \_\_\_ / \_\_\_ Access Code 13  
\_\_\_ / \_\_\_ Access Code 14  
\_\_\_ / \_\_\_ Access Code 15  
\_\_\_ / \_\_\_ Access Code 16

[168] \_\_\_ / \_\_\_ Access Code 33  
\_\_\_ / \_\_\_ Access Code 34  
\_\_\_ / \_\_\_ Access Code 35  
\_\_\_ / \_\_\_ Access Code 36

[172] \_\_\_ / \_\_\_ Auto-Arming  
\_\_\_ / \_\_\_ Late to Close  
\_\_\_ / \_\_\_ No Movement  
\_\_\_ / \_\_\_ Partial Arming

[164] \_\_\_ / \_\_\_ Access Code 17  
\_\_\_ / \_\_\_ Access Code 18  
\_\_\_ / \_\_\_ Access Code 19  
\_\_\_ / \_\_\_ Access Code 20

[169] \_\_\_ / \_\_\_ Access Code 37  
\_\_\_ / \_\_\_ Access Code 38  
\_\_\_ / \_\_\_ Access Code 39  
\_\_\_ / \_\_\_ Access Code 40

[173] \_\_\_ / \_\_\_ Quick Arming  
\_\_\_ / \_\_\_ Arming via PC  
\_\_\_ / \_\_\_ Keypress Arming  
\_\_\_ / \_\_\_ N/A

## DISARMING REPORT CODES

[174] \_\_\_ / \_\_\_ Access Code 01  
\_\_\_ / \_\_\_ Access Code 02  
\_\_\_ / \_\_\_ Access Code 03  
\_\_\_ / \_\_\_ Access Code 04

[179] \_\_\_ / \_\_\_ Access Code 21  
\_\_\_ / \_\_\_ Access Code 22  
\_\_\_ / \_\_\_ Access Code 23  
\_\_\_ / \_\_\_ Access Code 24

[184] \_\_\_ / \_\_\_ Access Code 41  
\_\_\_ / \_\_\_ Access Code 42  
\_\_\_ / \_\_\_ Access Code 43  
\_\_\_ / \_\_\_ Access Code 44

[175] \_\_\_ / \_\_\_ Access Code 05  
\_\_\_ / \_\_\_ Access Code 06  
\_\_\_ / \_\_\_ Access Code 07  
\_\_\_ / \_\_\_ Access Code 08

[180] \_\_\_ / \_\_\_ Access Code 25  
\_\_\_ / \_\_\_ Access Code 26  
\_\_\_ / \_\_\_ Access Code 27  
\_\_\_ / \_\_\_ Access Code 28

[185] \_\_\_ / \_\_\_ Access Code 45  
\_\_\_ / \_\_\_ Access Code 46  
\_\_\_ / \_\_\_ Access Code 47  
\_\_\_ / \_\_\_ Access Code 48

[176] \_\_\_ / \_\_\_ Access Code 09  
\_\_\_ / \_\_\_ Access Code 10  
\_\_\_ / \_\_\_ Access Code 11  
\_\_\_ / \_\_\_ Access Code 12

[181] \_\_\_ / \_\_\_ Access Code 29  
\_\_\_ / \_\_\_ Access Code 30  
\_\_\_ / \_\_\_ Access Code 31  
\_\_\_ / \_\_\_ Access Code 32

## SPECIAL DISARMING CODES

[177] \_\_\_ / \_\_\_ Access Code 13  
\_\_\_ / \_\_\_ Access Code 14  
\_\_\_ / \_\_\_ Access Code 15  
\_\_\_ / \_\_\_ Access Code 16

[182] \_\_\_ / \_\_\_ Access Code 33  
\_\_\_ / \_\_\_ Access Code 34  
\_\_\_ / \_\_\_ Access Code 35  
\_\_\_ / \_\_\_ Access Code 36

[186] \_\_\_ / \_\_\_ Cancel Auto-Arm  
\_\_\_ / \_\_\_ Disarming via PC  
\_\_\_ / \_\_\_ Keypress Disarm  
\_\_\_ / \_\_\_ N/A

[178] \_\_\_ / \_\_\_ Access Code 17  
\_\_\_ / \_\_\_ Access Code 18  
\_\_\_ / \_\_\_ Access Code 19  
\_\_\_ / \_\_\_ Access Code 20

[183] \_\_\_ / \_\_\_ Access Code 37  
\_\_\_ / \_\_\_ Access Code 38  
\_\_\_ / \_\_\_ Access Code 39  
\_\_\_ / \_\_\_ Access Code 40



## ALARM REPORT CODES

ALARM	RESTORE	SPECIAL
[187] ___/___ Zone 01 ___/___ Zone 02 ___/___ Zone 03 ___/___ Zone 04	[191] ___/___ Zone 01 ___/___ Zone 02 ___/___ Zone 03 ___/___ Zone 04	[195] ___/___ Emergency Panic ___/___ Auxiliary Panic ___/___ Fire Panic ___/___ Recent Closing
[188] ___/___ Zone 05 ___/___ Zone 06 ___/___ Zone 07 ___/___ Zone 08	[192] ___/___ Zone 05 ___/___ Zone 06 ___/___ Zone 07 ___/___ Zone 08	[196] ___/___ Zone Shutdown ___/___ Duress ___/___ Keypad Lockout ___/___ N/A
[189] ___/___ Zone 09 ___/___ Zone 10 ___/___ Zone 11 ___/___ Zone 12	[193] ___/___ Zone 09 ___/___ Zone 10 ___/___ Zone 11 ___/___ Zone 12	
[190] ___/___ Zone 13 ___/___ Zone 14 ___/___ Zone 15 ___/___ Zone 16	[194] ___/___ Zone 13 ___/___ Zone 14 ___/___ Zone 15 ___/___ Zone 16	

## TAMPER REPORT CODES

TROUBLE	RESTORE	SPECIAL
[197] ___/___ Zone 01 ___/___ Zone 02 ___/___ Zone 03 ___/___ Zone 04	[200] ___/___ Zone 13 ___/___ Zone 14 ___/___ Zone 15 ___/___ Zone 16	[203] ___/___ Zone 09 ___/___ Zone 10 ___/___ Zone 11 ___/___ Zone 12
[198] ___/___ Zone 05 ___/___ Zone 06 ___/___ Zone 07 ___/___ Zone 08	[201] ___/___ Zone 01 ___/___ Zone 02 ___/___ Zone 03 ___/___ Zone 04	[204] ___/___ Zone 13 ___/___ Zone 14 ___/___ Zone 15 ___/___ Zone 16
[199] ___/___ Zone 09 ___/___ Zone 10 ___/___ Zone 11 ___/___ Zone 12	[202] ___/___ Zone 05 ___/___ Zone 06 ___/___ Zone 07 ___/___ Zone 08	

## SYSTEM TROUBLE REPORT CODES

SYSTEM TROUBLE	RESTORE	SPECIAL
[205] ___/___ N/A ___/___ AC Failure ___/___ Battery Failure ___/___ Auxiliary Supply	[208] ___/___ TLM ___/___ AC Failure ___/___ Battery Failure ___/___ Auxiliary Supply	[211] ___/___ Cold Start (Shutdown) ___/___ Test Report ___/___ N/A ___/___ PC Exit
[206] ___/___ Bell Output Overload ___/___ Bell Output Disconnect ___/___ Timer Loss ___/___ Fire Loop Trouble	[209] ___/___ Bell Output Overload ___/___ Bell Output Disconnect ___/___ Timer Loss ___/___ Fire Loop Trouble	[212] ___/___ Installer In ___/___ Installer Out ___/___ N/A ___/___ N/A
[207] ___/___ Wireless Low Battery ___/___ Module Fault ___/___ Printer Fault ___/___ Fail to Communicate	[210] ___/___ Wireless Low Battery ___/___ Module Fault ___/___ Printer Fault ___/___ Fail to Communicate	[213] ___/___ TX Supervision Loss ___/___ TX Supervision Restore ___/___ N/A ___/___ N/A

## SYSTEM SETTINGS

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

## 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 #	User Code Options (ON/OFF)	Section	User Code Options (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.

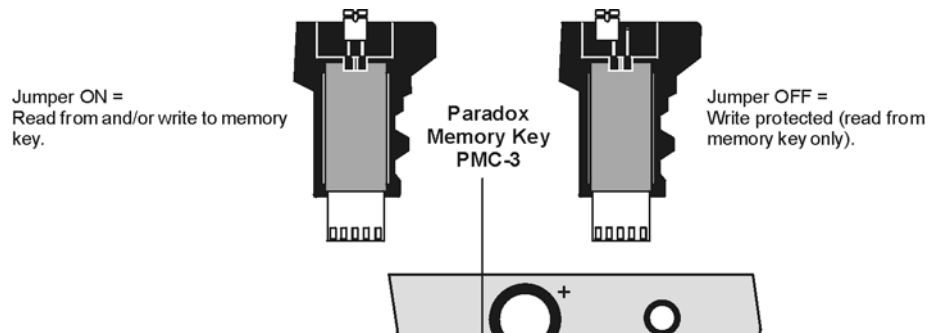
### Download to DESTINATION Control Panel

- 1) Remove AC and battery power from the control panel.
- 2) 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-OUTPUT BUS MODULE V2.0

Due to the APR3-PGM4's Auto-recognition feature, it can be used with either the Spectra (V2.0 or higher), Digiplex or DigiplexNE 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.

 Modules with the APR- prefix are compatible with Spectra (versions 2.0 and higher) and Digiplex. Modules with the APR3- prefix are compatible with Spectra (versions 2.0 and higher), Digiplex and DigiplexNE.

**Bold** = Default Setting

## SECTION [500]: GENERAL OPTIONS

Option		OFF	ON
[1]	<i>PGM1 Time Base Selection</i>	<input type="checkbox"/> <b>Seconds</b>	<input type="checkbox"/> Minutes
[2]	<i>PGM2 Time Base Selection</i>	<input type="checkbox"/> <b>Seconds</b>	<input type="checkbox"/> Minutes
[3]	<i>PGM3 Time Base Selection</i>	<input type="checkbox"/> <b>Seconds</b>	<input type="checkbox"/> Minutes
[4]	<i>PGM4 Time Base Selection</i>	<input type="checkbox"/> <b>Seconds</b>	<input type="checkbox"/> Minutes
[5]	<i>Future Use</i>	<input type="checkbox"/> <b>N/A</b>	<input type="checkbox"/> N/A
[6]	<i>Future Use</i>	<input type="checkbox"/> <b>N/A</b>	<input type="checkbox"/> N/A
[7]	<i>Future Use</i>	<input type="checkbox"/> <b>N/A</b>	<input type="checkbox"/> N/A
[8]	<i>Future Use</i>	<input type="checkbox"/> <b>N/A</b>	<input type="checkbox"/> N/A

## PGM PROGRAMMING

Each PGM Deactivation event can be used as another activation event if their respective PGM timer (see sections [501] to [504]) is programmed with a value other than 000. The APR3-PGM4 uses the same PGM events as the Spectra control panel, please refer to "Programmable Outputs" on page 8.

Section #	Decimal Value (000-255)	Description	Default Value
[501] ___/___/___	(000 = follow deactivation event)	PGM1 TIMER	5 sec.
[502] ___/___/___	(000 = follow deactivation event)	PGM2 TIMER	5 sec.
[503] ___/___/___	(000 = follow deactivation event)	PGM3 TIMER	5 sec.
[504] ___/___/___	(000 = follow deactivation event)	PGM4 TIMER	5 sec.

Section #	Event Group #	Sub-Group #	Partition #
[505] PGM1 Activation Event	___/___	___/___	___/___
[506] PGM1 Deactivation Event	___/___	___/___	___/___
[507] PGM2 Activation Event	___/___	___/___	___/___
[508] PGM2 Deactivation Event	___/___	___/___	___/___
[509] PGM3 Activation Event	___/___	___/___	___/___
[510] PGM3 Deactivation Event	___/___	___/___	___/___
[511] PGM4 Activation Event	___/___	___/___	___/___
[512] PGM4 Deactivation Event	___/___	___/___	___/___

UL Note: The 4-Output Bus Module is not UL listed.

# PRINTER BUS MODULE V2.0

Due to the APR3-PRT1's Auto-recognition feature, it can be used with either the Spectra (V2.0 or higher), Digiplex or DigiplexNE 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 Digiplex. Modules with the APR3- prefix are compatible with Spectra (versions 2.0 and higher), Digiplex and DigiplexNE.

**Bold = Default Setting**

## SECTION [550]: GENERAL OPTIONS

Option	OFF	ON
[1] <i>Assigned to Partition 1</i>	<input type="checkbox"/> Disabled	<input type="checkbox"/> Enabled
[2] <i>Assigned to Partition 2</i>	<input type="checkbox"/> Disabled	<input type="checkbox"/> Enabled
[3] <i>PGM Normal State</i>	<input type="checkbox"/> <b>Normally Open (N.O.)</b>	<input type="checkbox"/> Normally Closed (N.C.)
[4] <i>Print Arming and Disarming Events</i>	<input type="checkbox"/> Disabled	<input type="checkbox"/> Automatically
[5] <i>Print Alarm and Alarm Restore Events</i>	<input type="checkbox"/> Disabled	<input type="checkbox"/> Automatically
[6] <i>Print Tamper and Tamper Restore Events</i>	<input type="checkbox"/> Disabled	<input type="checkbox"/> Automatically
[7] <i>Print Trouble and Trouble Restore Events</i>	<input type="checkbox"/> Disabled	<input type="checkbox"/> Automatically
[8] <i>Print Special Events</i>	<input type="checkbox"/> Disabled	<input type="checkbox"/> Automatically

## SECTION [551]: AUTOMATIC ZONE STATUS PRINTING

Option	OFF	ON
[1] <i>Print Status of Zone 1</i>	<input type="checkbox"/> Disabled	<input type="checkbox"/> Automatically
[2] <i>Print Status of Zone 2</i>	<input type="checkbox"/> Disabled	<input type="checkbox"/> Automatically
[3] <i>Print Status of Zone 3</i>	<input type="checkbox"/> Disabled	<input type="checkbox"/> Automatically
[4] <i>Print Status of Zone 4</i>	<input type="checkbox"/> Disabled	<input type="checkbox"/> Automatically
[5] <i>Print Status of Zone 5</i>	<input type="checkbox"/> Disabled	<input type="checkbox"/> Automatically
[6] <i>Print Status of Zone 6</i>	<input type="checkbox"/> Disabled	<input type="checkbox"/> Automatically
[7] <i>Print Status of Zone 7</i>	<input type="checkbox"/> Disabled	<input type="checkbox"/> Automatically
[8] <i>Print Status of Zone 8</i>	<input type="checkbox"/> Disabled	<input type="checkbox"/> Automatically

## SECTION [552]: AUTOMATIC ZONE STATUS PRINTING

Option	OFF	ON
[1] <i>Print Status of Zone 9</i>	<input type="checkbox"/> Disabled	<input type="checkbox"/> Automatically
[2] <i>Print Status of Zone 10</i>	<input type="checkbox"/> Disabled	<input type="checkbox"/> Automatically
[3] <i>Print Status of Zone 11</i>	<input type="checkbox"/> Disabled	<input type="checkbox"/> Automatically
[4] <i>Print Status of Zone 12</i>	<input type="checkbox"/> Disabled	<input type="checkbox"/> Automatically
[5] <i>Print Status of Zone 13</i>	<input type="checkbox"/> Disabled	<input type="checkbox"/> Automatically
[6] <i>Print Status of Zone 14</i>	<input type="checkbox"/> Disabled	<input type="checkbox"/> Automatically
[7] <i>Print Status of Zone 15</i>	<input type="checkbox"/> Disabled	<input type="checkbox"/> Automatically
[8] <i>Print Status of Zone 16</i>	<input type="checkbox"/> Disabled	<input type="checkbox"/> Automatically

**Bold = Default Setting**

## SECTION [553]: SERIAL AND PARALLEL PORT SETUP OPTIONS

**Option**

**[1]** *Serial Port*

**[2]&[3]**

Baud Rate Settings			
[2]	[3]	APR-PRT1	APR3-PRT1
OFF	OFF	<b>1200 baud</b> (default)	<b>2400 baud</b> (default)
ON	OFF	2400 baud	9600 baud
OFF	ON	9600 baud	19200 baud
ON	ON	19200 baud	57600 baud

OFF

- Disabled**
- see table
- see table

ON

- Enabled
- see table
- see table

**[4]** *Parallel Port*

**[5]** *Off-line Status Ignored (parallel port only)*

**[6]** *Paper Empty Status Ignored (parallel port only)*

**[7]** *Printer Fault Status Ignored (parallel port only)*

**[8]** *Printer Busy Status Ignored (parallel port only)*

- Disabled**
- Disabled**
- Disabled**
- Disabled**
- Disabled**

- Enabled
- Enabled
- Enabled
- Enabled
- 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 PRT1 module uses the same PGM events as the Spectra control panel, please refer to "Programmable Outputs" on page 8

Section #	Decimal Value (000-255)	Description	Default Value
<b>[554]</b> ___/___/___	seconds (000 = follow deactivation event)	PGM1 TIMER	5 sec.

Section #	Event Group #	Sub-Group #	Partition #
<b>[555]</b> PGM1 Activation Event	___/___	___/___	___/___
<b>[556]</b> PGM1 Deactivation Event	___/___	___/___	___/___

### CLOCK PROGRAMMING

For example, to enter the date March 26, 2000 you would enter 20 (century), 00 (year), 03 (month), and 26 (day).

Section #	Value
<b>[557]</b>	Year ___/___/___/___ Month ___/___ 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), Digiplex or DigiplexNE control panel. 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.



Modules with the APR- prefix are compatible with Spectra (versions 2.0 and higher) and Digiplex. Modules with the APR3- prefix are compatible with Spectra (versions 2.0 and higher), Digiplex and DigiplexNE.

Section #	Decimal Value (000-255)	Description	Default Value
<b>[575]</b> ___/___/___	rings (000 = disabled)	NUMBER OF RINGS	<b>8 rings</b>
<b>[576]</b> ___/___/___	seconds (010-255, 000 = disabled)	ANSWERING MACHINE OVERRIDE	<b>000</b>
<b>[577]</b> ___/___/___	seconds/minutes (000 = disabled)	PGM TIMER	<b>005</b>

**Bold** = Default Setting

### SECTION [578]: GENERAL OPTIONS

Option	OFF	ON
[1] <i>Stand-alone Code Length</i>	<input type="checkbox"/> <b>6-digits</b>	<input type="checkbox"/> 4-digits
[2] <i>Partitioned System</i>	<input type="checkbox"/> <b>Disabled</b>	<input type="checkbox"/> Enabled
[3] <i>PGM Output</i>	<input type="checkbox"/> <b>Disabled</b>	<input type="checkbox"/> Enabled
[4] <i>PGM Time in</i>	<input type="checkbox"/> <b>Seconds</b>	<input type="checkbox"/> Minutes
[5] <i>Future Use</i>	<input type="checkbox"/> N/A	<input type="checkbox"/> N/A
[6] <i>Future Use</i>	<input type="checkbox"/> N/A	<input type="checkbox"/> N/A
[7] <i>Future Use</i>	<input type="checkbox"/> N/A	<input type="checkbox"/> N/A
[8] <i>Future Use</i>	<input type="checkbox"/> N/A	<input type="checkbox"/> N/A

# WIRELESS BUS MODULES



Only one SPC-319 (Liberator) or OMN-RCV3 (Omnia) can be connected to each Spectra control panel.

## 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 26). **Also, refer to “Zone Recognition Table” on page 5.**

- Section #      Serial #
- [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] <i>Wireless Transmitter Supervision</i>	<input type="checkbox"/> <b>Disabled</b>	<input type="checkbox"/> Enabled
[2] <i>Supervision Timer Setting (must be same as the transmitter’s jumper setting)</i>	<input type="checkbox"/> <b>Low = Every 12 hours</b>	<input type="checkbox"/> High = Every 12 minutes
[3] <i>PGM1 on SPC-319 follows Global PGM programmed in sections [124] &amp; [125]</i>	<input type="checkbox"/> <b>Disabled</b>	<input type="checkbox"/> Enabled
[4] <i>PGM2 on SPC-319 follows Global PGM programmed in sections [124] &amp; [125]</i>	<input type="checkbox"/> <b>Disabled</b>	<input type="checkbox"/> Enabled
[5] to [8] <i>Future Use</i>	<input type="checkbox"/> <b>N/A</b>	<input type="checkbox"/> N/A



**Bold = Default Setting**

### SECTION [610]: GENERAL OPTIONS

Option	OFF	ON
[1] <i>Wireless Transmitter Check-in Supervision</i>	<input type="checkbox"/> <b>Disabled</b>	<input type="checkbox"/> Enabled
[2] <i>Check-in Supervision Base Time Setting (must be same as the transmitter’s jumper setting)</i>	<input type="checkbox"/> <b>Hours</b>	<input type="checkbox"/> Minutes
[3] & [4] <i>Future Use</i>	<input type="checkbox"/> <b>N/A</b>	<input type="checkbox"/> N/A
[5] <i>Check-in Supervision Time Value (must be same as the transmitter’s jumper setting)</i>	<input type="checkbox"/> <b>12</b>	<input type="checkbox"/> 6
[6] <i>PGM1 Deactivation</i>	<input type="checkbox"/> <b>2 second Timer</b>	<input type="checkbox"/> Manually
[7] <i>PGM2 Deactivation</i>	<input type="checkbox"/> <b>2 second Timer</b>	<input type="checkbox"/> Manually
[8] <i>Future Use</i>	<input type="checkbox"/> <b>N/A</b>	<input type="checkbox"/> N/A



Section #	Decimal Value (000-255)	Description	Default Value
[615]	___/___/___ (001-008 = expansion inputs 1-8)	ON-BOARD TAMPER ZONE ASSIGN.	000

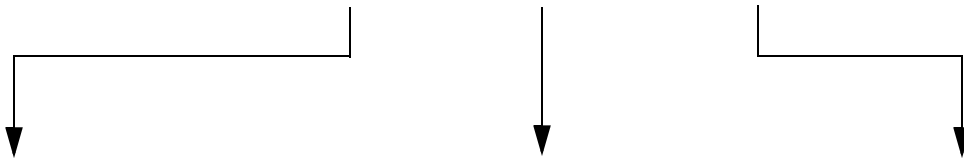
### PGM PROGRAMMING (LIBERATOR ONLY)

Each PGM Deactivation event can be used as another activation event if their respective PGM Timer (see sections [616] to [617]) is programmed with a value other than 000. The system will ignore a PGM if it has been programmed to follow the Global PGM (options [3] and [4] in section [610]). Only PGM events from the table below can be used.

 **Only the Liberator's PGMs can be programmed using the PGM events from the table below.**

Section #	Decimal Value (000-255)	Description	Default Value
[616]	___/___/___ seconds (000=follow deactivation)	PGM1 TIMER (SPC-319)	5 sec.
[617]	___/___/___ seconds (000=follow deactivation)	PGM2 TIMER (SPC-319)	5 sec.

Section #	Event Group	Sub-Group	Partition
[620]	PGM1 Activation Event	___/___	___/___
[621]	PGM1 Deactivation Event	___/___	___/___
[622]	PGM2 Activation Event	___/___	___/___
[623]	PGM2 Deactivation Event	___/___	___/___



Event Group #	Sub-Group #	Partition #
<b>40 = Wireless Zone Opened</b> <b>41 = Wireless Zone Closed</b> <b>42 = Wireless Tamper Opened</b> <b>43 = Wireless Tamper Closed</b> <b>44 = Wireless Zone - Low Battery</b> <b>45 = Wireless Zone -Battery Restore</b> <b>46 = Wireless Zone - Supervision Failure</b> <b>47 = Wireless Zone - Supervision Restore</b>	01 = Expansion Input 1 - Section [601] 02 = Expansion Input 2 - Section [602] 03 = Expansion Input 3 - Section [603] 04 = Expansion Input 4 - Section [604] 05 = Expansion Input 5 - Section [605] 06 = Expansion Input 6 - Section [606] 07 = Expansion Input 7 - Section [607] 08 = Expansion Input 8 - Section [608] 99 = Any transmitter	Not used; enter 00
<b>48 = Remote Control Button Pressed</b>	01 = Remote Control #1 - Section [721] 02 = Remote Control #2 - Section [722] 03 = Remote Control #3 - Section [723] 04 = Remote Control #4 - Section [724] 05 = Remote Control #5 - Section [725] 06 = Remote Control #6 - Section [726] 07 = Remote Control #7 - Section [727] 08 = Remote Control #8 - Section [728] 99 = Any remote control	01 = Button A 02 = Button B 03 = Button C 04 = Button D 05 = Button A & B 06 = Button C & D 07 = Button A & C 08 = Button B & D
<b>49 = On-board tamper (receiver)</b>	01 = Tamper Open 02 = Tamper Closed 99 = Tamper Opened or Closed	Not used; enter 00

### PGM ACTIVATION/DEACTIVATION (OMNIA ONLY)

PGM1 is always enabled and is activated through the Omnia Remote Control (OMN-RCT1). Remote control button C controls PGM1. A second 5A PGM relay output (PGM2) is available as an option. Remote control button D controls PGM2 (optional). Press the appropriate button to activate the PGM that it controls. Section [610] options [6] and [7] determine how the respective PGM will deactivate. If the option is OFF, the activated PGM will automatically deactivate after 2 seconds. If the option is ON, each activated PGM can be deactivated only by pressing the appropriate button on an Omnia Remote Control that controls a PGM. For a diagram of the Omnia Remote Control, refer to "Button Options" on page 26.

## SERIAL NUMBER DISPLAY

Section # Description  
**[630]** Press the tamper switch of the Liberator or Omnia Wireless Transmitter, or press any two buttons on the desired remote control (Liberator only). 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 Liberator or Omnia transmitter by opening/closing the zone or by pressing the tamper switch. Always ignore the first reading as it won't be accurate. An average reading of 3 and up 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
<b>[701]</b>	___/___/___ (001-048 = user #)	remote control #1 - section [721]/[731]*	000
<b>[702]</b>	___/___/___ (001-048 = user #)	remote control #2 - section [722]/[732]*	000
<b>[703]</b>	___/___/___ (001-048 = user #)	remote control #3 - section [723]/[733]*	000
<b>[704]</b>	___/___/___ (001-048 = user #)	remote control #4 - section [724]/[734]*	000
<b>[705]</b>	___/___/___ (001-048 = user #)	remote control #5 - section [725]/[735]*	000
<b>[706]</b>	___/___/___ (001-048 = user #)	remote control #6 - section [726]/[736]*	000
<b>[707]</b>	___/___/___ (001-048 = user #)	remote control #7 - section [727]/[737]*	000
<b>[708]</b>	___/___/___ (001-048 = user #)	remote control #8 - section [728]/[738]*	000

\* refer to "Remote Control Assignment" on page 27.

## BUTTON OPTIONS

Four-button Remote Control

LED

A

C I II D

B

Parakey = (344) 433MHz  
 Omnia = (OMN-RCT1) 433MHz

### Button Options Table

**Empty Slot [FORCE]** - Button disabled

- 1 - Regular Arming
- 2 - Stay Arming
- 3 - Instant Arming
- 4 - Force Arming
- 5 - Disarm
- 6 - Disarm when no alarm
- 7 - Regular Arm and Disarm
- 8 - Panic 1
- 9 - Panic 2
- A - Panic 3
- B - PGM Activation (Event Group #7, see PGM Programming)
- C - PGM Activation (Event Group #8, see PGM Programming)
- D - PGM Activation (Event Group #9, see PGM Programming)

Section # Hexa Value: Each digit is a value from 1 to D (see Button Options Table)

[711]     /     /     /     /     /     /     /     remote control #1  
 A B C D A+B C+D A+C B+D

[712]     /     /     /     /     /     /     /     remote control #2  
 A B C D A+B C+D A+C B+D

[713]     /     /     /     /     /     /     /     remote control #3  
 A B C D A+B C+D A+C B+D


[714]     /     /     /     /     /     /     /     remote control #4  
 A B C D A+B C+D A+C B+D

[715]     /     /     /     /     /     /     /     remote control #5  
 A B C D A+B C+D A+C B+D

[716]     /     /     /     /     /     /     /     remote control #6  
 A B C D A+B C+D A+C B+D

[717]     /     /     /     /     /     /     /     remote control #7  
 A B C D A+B C+D A+C B+D

[718]     /     /     /     /     /     /     /     remote control #8  
 A B C D A+B C+D A+C B+D

 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 ASSIGNMENT



Use the Serial Number Display (see page 26) to find out the serial number of a Liberator remote control (LIB-349) and then enter the serial number in the appropriate section. If you hear a rejection beep (“Beeeeeeeeeeeeeep”), an error has occurred or the remote control has already been assigned. To delete a remote control, enter the desired section and then enter a value of 000000.

Section #	Serial #	
[721]	<u>   </u> / <u>   </u> / <u>   </u> / <u>   </u> / <u>   </u> / <u>   </u> / <u>   </u> / <u>   </u>	REMOTE CONTROL #1
[722]	<u>   </u> / <u>   </u> / <u>   </u> / <u>   </u> / <u>   </u> / <u>   </u> / <u>   </u> / <u>   </u>	REMOTE CONTROL #2
[723]	<u>   </u> / <u>   </u> / <u>   </u> / <u>   </u> / <u>   </u> / <u>   </u> / <u>   </u> / <u>   </u>	REMOTE CONTROL #3
[724]	<u>   </u> / <u>   </u> / <u>   </u> / <u>   </u> / <u>   </u> / <u>   </u> / <u>   </u> / <u>   </u>	REMOTE CONTROL #4
[725]	<u>   </u> / <u>   </u> / <u>   </u> / <u>   </u> / <u>   </u> / <u>   </u> / <u>   </u> / <u>   </u>	REMOTE CONTROL #5
[726]	<u>   </u> / <u>   </u> / <u>   </u> / <u>   </u> / <u>   </u> / <u>   </u> / <u>   </u> / <u>   </u>	REMOTE CONTROL #6
[727]	<u>   </u> / <u>   </u> / <u>   </u> / <u>   </u> / <u>   </u> / <u>   </u> / <u>   </u> / <u>   </u>	REMOTE CONTROL #7
[728]	<u>   </u> / <u>   </u> / <u>   </u> / <u>   </u> / <u>   </u> / <u>   </u> / <u>   </u> / <u>   </u>	REMOTE CONTROL #8




Enter the appropriate section and press any button on an Omnia remote control (OMN-RCT1) twice, or until the confirmation beep sounds (“Beep-Beep-Beep-Beep-Beep”), 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 appropriate section and then press the **[FORCE]** button.

Section #	Remote Control
[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 Digiplex. Modules with the SPC- prefix are compatible with Spectra (versions 2.0 and higher), Digiplex and DigiplexNE.

**Bold** = Default Setting

## SECTION [650]: Options

Option	OFF	ON
[1] <i>EOL (end-of-line) Resistors for hardwire modules</i>	<input type="checkbox"/> <b>No EOL</b>	<input type="checkbox"/> Use EOL Resistors
[2] <i>Zone Expansion Module Tamper Recognition</i>	<input type="checkbox"/> <b>Disabled</b>	<input type="checkbox"/> Z1 becomes tamper input
[3] <i>PGM1 on SPC/APR3-ZX8 follows Global PGM programmed in sections [124] &amp; [125]</i>	<input type="checkbox"/> <b>Disabled</b>	<input type="checkbox"/> Enabled
[4]-[8] <i>Future Use</i>	<input type="checkbox"/> <b>N/A</b>	<input type="checkbox"/> N/A

## SECTION [651]: ZONE ASSIGNMENT

Option	See "Zone Recognition Table" on page 5.	OFF	ON
[1] <i>Input Z1</i>	<i>=Expansion Input 1</i>	<input type="checkbox"/> <b>Disabled</b>	<input type="checkbox"/> Enabled
[2] <i>Input Z2</i>	<i>=Expansion Input 2</i>	<input type="checkbox"/> <b>Disabled</b>	<input type="checkbox"/> Enabled
[3] <i>Input Z3</i>	<i>=Expansion Input 3</i>	<input type="checkbox"/> <b>Disabled</b>	<input type="checkbox"/> Enabled
[4] <i>Input Z4</i>	<i>=Expansion Input 4</i>	<input type="checkbox"/> <b>Disabled</b>	<input type="checkbox"/> Enabled
[5] <i>Input Z5 (SPC/APR3-ZX8 only)</i>	<i>=Expansion Input 5</i>	<input type="checkbox"/> <b>Disabled</b>	<input type="checkbox"/> Enabled
[6] <i>Input Z6 (SPC/APR3-ZX8 only)</i>	<i>=Expansion Input 6</i>	<input type="checkbox"/> <b>Disabled</b>	<input type="checkbox"/> Enabled
[7] <i>Input Z7 (SPC/APR3-ZX8 only)</i>	<i>=Expansion Input 7</i>	<input type="checkbox"/> <b>Disabled</b>	<input type="checkbox"/> Enabled
[8] <i>Input Z8 (SPC/APR3-ZX8 only)</i>	<i>=Expansion Input 8</i>	<input type="checkbox"/> <b>Disabled</b>	<input type="checkbox"/> 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.

Section #	Decimal Value (000-255)	Description	Default Value
<b>[655]</b> ___/___/___	seconds (000 = follow deactivation event)	PGM1 TIMER	5 sec.

Section #	Event Group #	Sub-Group #	Partition #
<b>[656]</b> PGM1 Activation Event	___/___	___/___	___/___
<b>[657]</b> PGM1 Deactivation Event	___/___	___/___	___/___

Event Group #	Sub-Group #	Partition #
<b>For SPC-ZX8:</b>	01 = Expansion Input 1 - Section [651] - [1]	Not used; enter 00
<b>60 = Hardwire Zone Opened</b>	02 = Expansion Input 2 - Section [651] - [2]	
<b>61 = Hardwire Zone Closed</b>	03 = Expansion Input 3 - Section [651] - [3]	
<b>62 = Hardwire Tamper Opened</b>	04 = Expansion Input 4 - Section [651] - [4]	
<b>63 = Hardwire Tamper Closed</b>	05 = Expansion Input 5 - Section [651] - [5]	
	06 = Expansion Input 6 - Section [651] - [6]	
<b>For APR3-ZX8:</b>	07 = Expansion Input 7 - Section [651] - [7]	
<b>60 = Hardwire Zone/Hardwire Tamper Opened</b>	08 = Expansion Input 8 - Section [651] - [8]	
<b>61 = Hardwire Zone/Hardwire Tamper Closed</b>	99 = Any zone expansion bus module input	

UL Note: The Zone Expansion Bus Modules are not UL listed.

# 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] to [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-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.

### 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#	Reporting Code	Prog. Value	CID#	Reporting Code	Prog. Value	CID#	Reporting Code	Prog. Value
<b>MEDICAL ALARMS - 100</b>			204	Low Water Level	2F	403	Automatic O/C	5D
100	Medical Alarm	01	205	Pump Activated	30	404	Late to O/C	5E
101	Pendant Transmitter	02	206	Pump Failure	31	405	Deferred	5F
102	Fail to Report In	03	<b>SYSTEM TROUBLES - 300 &amp; 310</b>			406	Cancel	60
<b>FIRE ALARMS - 110</b>			300	System Trouble	32	407	Remote Arm/Disarm	61
110	Fire Alarm	04	301	AC Loss	33	408	Quick Arm	62
111	Smoke	05	302	Low System Battery	34	409	Keypad O/C	63
112	Combustion	06	303	RAM Checksum Bad	35	<b>REMOTE ACCESS - 410</b>		
113	Water Flow	07	304	ROM Checksum Bad	36	411	Callback Request Made	64
114	Heat	08	305	System Reset	37	412	Success - Download Access	65
115	Pull Station	09	306	Panel Program Changed	38	413	Unsuccessful Access	66
116	Duct	0A	307	Self-Test Failure	39	414	System Shutdown	67
117	Flame	0B	308	System Shutdown	3A	415	Dialer Shutdown	68
118	Near Alarm	0C	309	Battery Test Failure	3B	<b>ACCESS CONTROL - 420</b>		
<b>PANIC ALARMS - 120</b>			310	Ground Fault	3C	421	Access Denied	69
120	Panic Alarm	0D	<b>SOUNDER/RELAY TROUBLES - 320</b>			422	Access Report By User	6A
121	Duress	0E	320	Sounder Relay	3D	<b>SOUNDER RELAY DISABLES - 520</b>		
122	Silent	0F	321	Bell 1	3E	520	Sounder/Relay Disabled	6B
123	Audible	10	322	Bell 2	3F	521	Bell 1 Disable	6C
<b>BURGLAR ALARMS - 130</b>			323	Alarm Relay	40	522	Bell 2 Disable	6D
130	Burglary	11	324	Trouble Relay	41	523	Alarm Relay Disable	6E
131	Perimeter	12	325	Reversing	42	524	Trouble Relay Disable	6F
132	Interior	13	<b>SYSTEM PERIPHERAL TROUBLES - 330 &amp; 340</b>			525	Reversing Relay Disable	70
133	24-Hour	14	330	System Peripheral	43	<b>COMMUNICATION DISABLES - 550 &amp; 560</b>		
134	Entry/Exit	15	331	Polling Loop Open	44	551	Dialer Disabled	71
135	Day/Night	16	332	Polling Loop Short	45	552	Radio xmitter Disabled	72
136	Outdoor	17	333	Exp. Module Failure	46	<b>BYPASSES - 570</b>		
137	Tamper	18	334	Repeater Failure	47	570	Zone Bypass	73
138	Near Alarm	19	335	Local Printer Paper Out	48	571	Fire Bypass	74
<b>GENERAL ALARMS - 140</b>			336	Local Printer Failure	49	572	24-Hour Zone Bypass	75
140	General Alarm	1A	<b>COMMUNICATION TROUBLES - 350 &amp; 360</b>			573	Burg. Bypass	76
141	Polling Loop Open	1B	350	Communication	4A	574	Group Bypass	77
142	Polling Loop Short	1C	351	Telco Fault 1	4B	<b>TEST/MISC. - 600</b>		
143	Expansion Module Failure	1D	352	Telco Fault 2	4C	601	Manual Trigger Test	78
144	Sensor Tamper	1E	353	Long Range Radio	4D	602	Periodic Test Report	79
145	Expansion Module Tamper	1F	354	Fail to Communicate	4E	603	Periodic RF Xmission	7A
<b>24-HOUR NON-BURGLARY - 150 &amp; 160</b>			355	Loss of Radio Supervision	4F	604	Fire Test	7B
150	24-Hour Non-Burglary	20	356	Loss of Central Polling	50	605	Status Report to Follow	7C
151	Gas Detected	21	<b>PROTECTION LOOP TROUBLES - 370</b>			606	Listen-in to Follow	7D
152	Refrigeration	22	370	Protection Loop	51	607	Walk Test Mode	7E
153	Loss of Heat	23	371	Protection Loop Open	52	621	Event Log Reset	7F
154	Water Leakage	24	372	Protection Loop short	53	622	Event Log 50% Full	80
155	Foil Break	25	373	Fire Trouble	54	623	Event Log 90% Full	81
156	Day Trouble	26	<b>SENSOR TROUBLES - 380</b>			624	Event Log Overflow	82
157	Low Bottled Gas Level	27	380	Sensor Trouble	55	625	Time/Date Reset	83
158	High Temp	28	381	Loss of Super. -RF	56	626	Time/Date Inaccurate	84
159	Low Temp	29	382	Loss of Super. -RPM	57	627	Program Mode Entry	85
161	Loss of Air Flow	2A	383	Sensor Tamper	58	628	Program Mode Exit	86
<b>FIRE SUPERVISORY - 200 &amp; 210</b>			384	RF xmtr. Low Battery	59	631	Exception Schedule Change	87
200	Fire Supervisory	2B	<b>OPEN/CLOSE - 400</b>					
201	Low Water Pressure	2C	400	Open/Close	5A			
202	Low CO2	2D	401	O/C by User	5B			
203	Gate Valve Sensor	2E	402	Group O/C	5C			

# APPENDIX B - ADEMCO CID REPORT CODE LIST (ALL CODES)

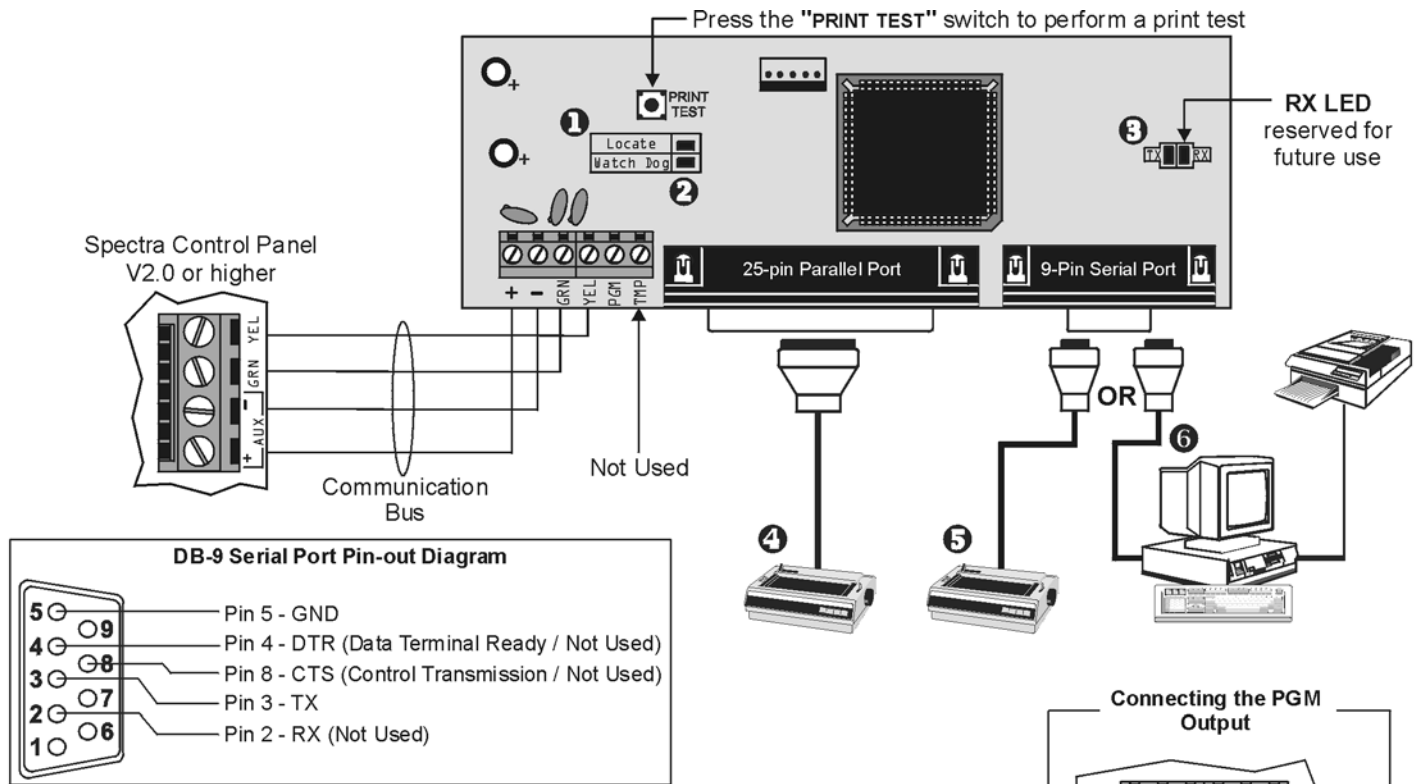
System Event	Default Contact ID Report Code when option [3] is on in section [136]
Arming with Master Code (##)	3 4A1 - Close by user
Arming with User Code (##)	3 4A1 - Close by user
Arming with Keypad (##)	3 4A9 - Keypad Close
Auto Arming	3 4A3 - Automatic Close
Arm with PC software	3 4A7 - Remote arm/disarm
Late To Close	3 4A4 - Late to Close
No Movement	3 4A4 - Late to Close
Partial arming	1 574 - Group bypass
Quick arming	3 408 - Quick arm
Disarm with Master Code (##)	1 4A1 - Open by user
Disarm with User Code (##)	1 4A1 - Open by user
Disarm with Keypad (##)	1 4A9 - Keypad Open
Disarm after alarm with Master Code (##)	1 4A1 - Open by user
Disarm after alarm with User Code (##)	1 4A1 - Open by user
Disarm after alarm with Keypad (##)	1 4A9 - Keypad Open
Auto Arming Cancellation	1 4A5 - Deferred Open/Close
Disarm with PC software	1 4A7 - Remote arm/disarm
Disarm after an alarm with PC software	1 4A7 - Remote arm/disarm
Zone Bypassed (##)	1 57A - Zone bypass
Zone alarm (##)	1 13A - Burglary Alarm
Fire alarm (##)	1 11A - Fire alarm
Zone alarm restore (##)	3 13A - Burglary Alarm Restore
Fire alarm restore (##)	3 11A - Fire alarm Restore
Panic 1 - Emergency	1 12A - Panic alarm
Panic 2 - Medical	1 1AA - Medical alarm
Panic 3 - Fire	1 115 - Pull Station
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
Auxiliary supply trouble	1 3AA - System trouble
Bell output current limit	1 321 - Bell 1



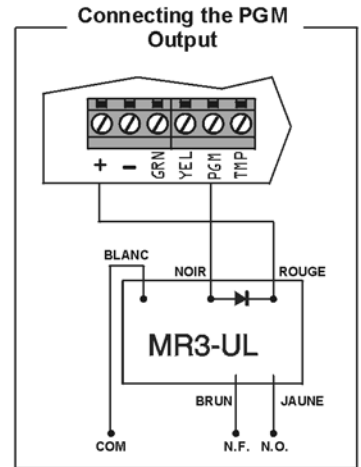
System Event	Default Contact ID Report Code when option [3] is on in section [136]
Bell absent	1 321 - Bell 1
Clock lost	1 626 - Time/Date inaccurate
Fire loop trouble	1 373 - Fire trouble
Wireless Transmitter Low Battery	1 384 - RF xmtr. low battery
Wireless Transmitter Supervision Loss	1 381 - Loss of super. - RF
Module fault	1 333 - Expansion module failure
Printer fault	1 336 - Local printer failure
Fail to communicate with central station	1 354 - Fail to communicate
TLM trouble restore	3 351 - Telco 1 fault restore
AC Failure restore	3 3A1 - AC loss restore
Battery Failure restore	3 3A9 - Battery test restore
Auxiliary supply trouble restore	3 3AA - System trouble restore
Bell output current limit restore	3 321 - Bell 1 restore
Bell absent restore	3 321 - Bell 1 restore
Clock programmed	3 626 - Time/Date Reset
Fire loop trouble restore	3 373 - Fire trouble restore
Wireless Transmitter Low Battery	3 384 - RF xmtr. low battery
Wireless Transmitter Supervision Loss	3 381 - Loss of super. - RF
Module fault restore	3 333 - Expansion module failure restore
Printer fault restore	3 336 - Local printer failure restore
Fail to communicate with central station	3 354 - Fail to communicate restore
Cold Start	1 3A8 - System shutdown
Test Report engaged	1 6A2 - Periodic test report
PC software communication finished	1 412 - Successful - download access
Installer on site	1 627 - Program mode Entry
Installer programming finished	1 628 - Program mode Exit

# BUS MODULE CONNECTIONS

## PRINTER BUS MODULE (APR3-PRT1)

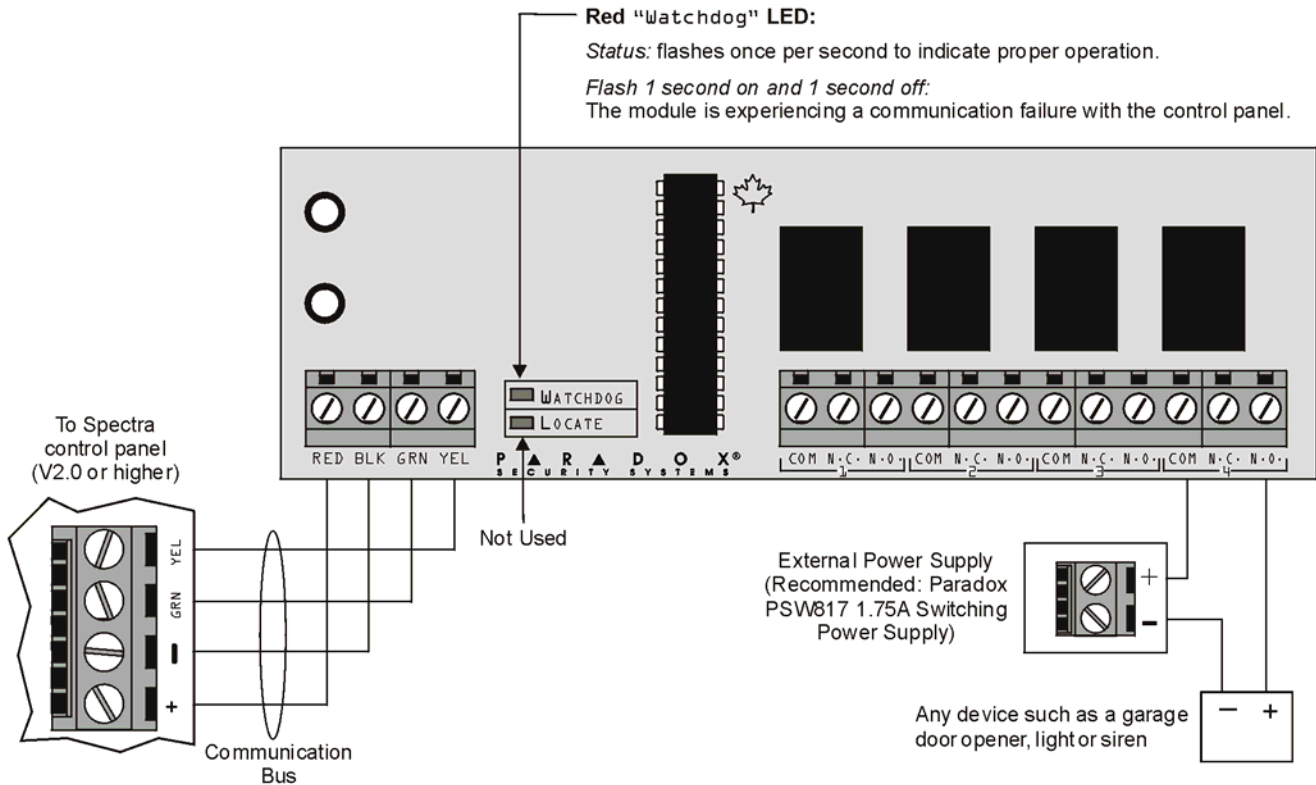


- 1 Green "Locate" LED: Remains illuminated during power up
- 2 Red "Watchdog" LED: Flashes to indicate proper operation. If there is a communication failure, the red LED will flash ON for one second and OFF for one second.
- 3 Red "TX" LED: Flashes when the Printer Module is transmitting data through the serial port only.
- 4 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.**
- 5 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.**
- 6 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.



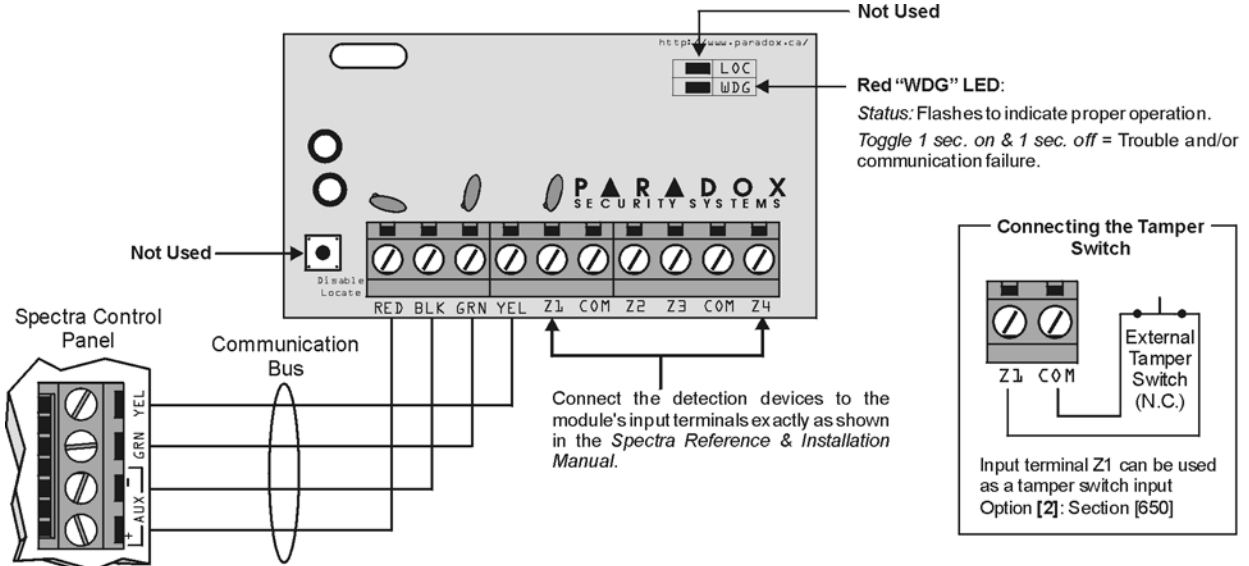
Remove AC power and battery before adding APR3-PRT1 to the system. Do not connect any modules more than 250 feet (76m) from the control panel. Only one Printer Module can be connected per Spectra control panel.

## 4-OUTPUT BUS 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 250 feet (76m) 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)

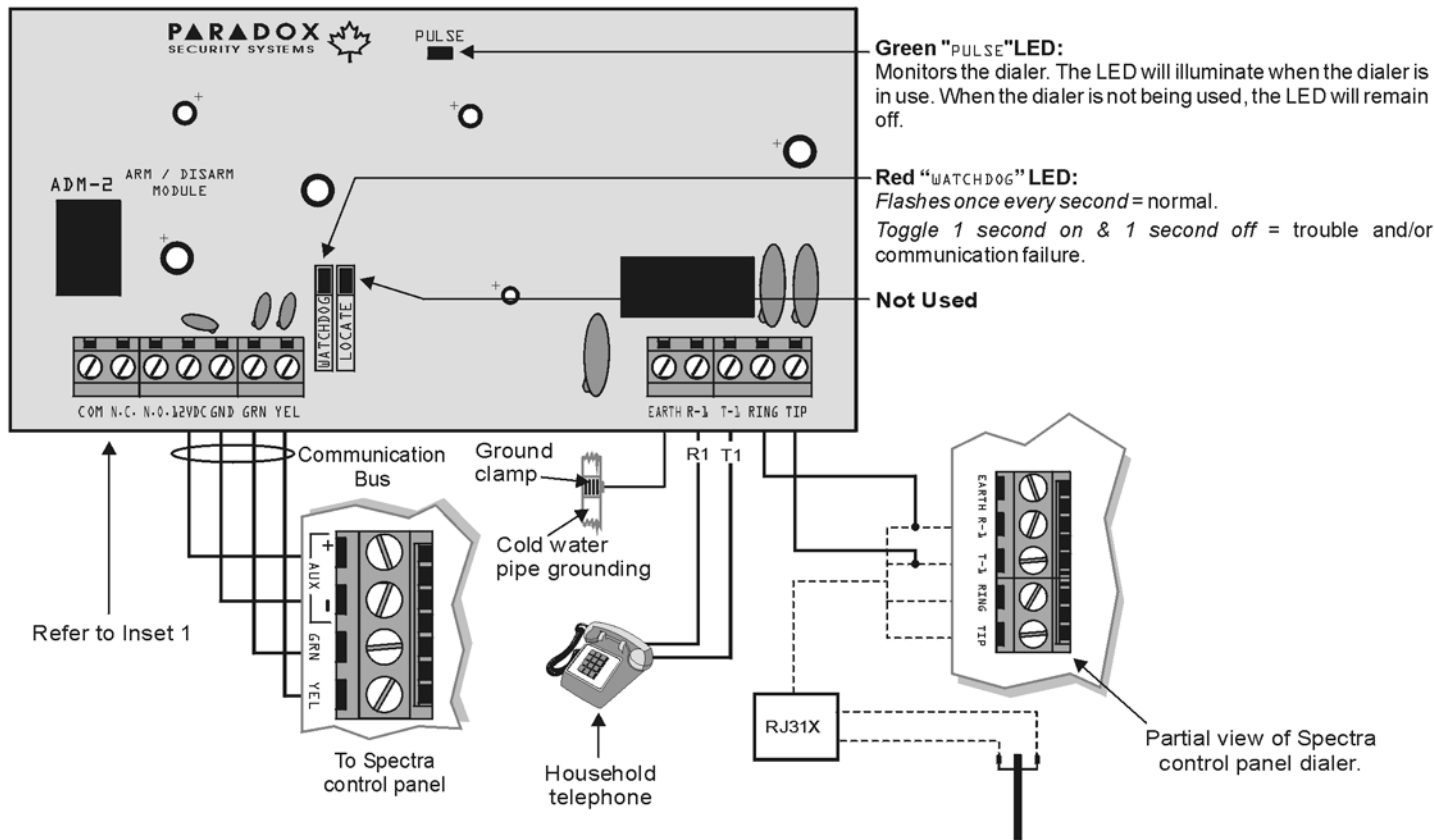


**!** Remove AC and battery power from the control panel before connecting the module to the communication bus. Do not connect the APR3-ZX4 or SPC-ZX4 more than 250 feet (76m) from the control panel. Only one APR3-ZX4 or one SPC-ZX4 can be connected per Spectra control panel.

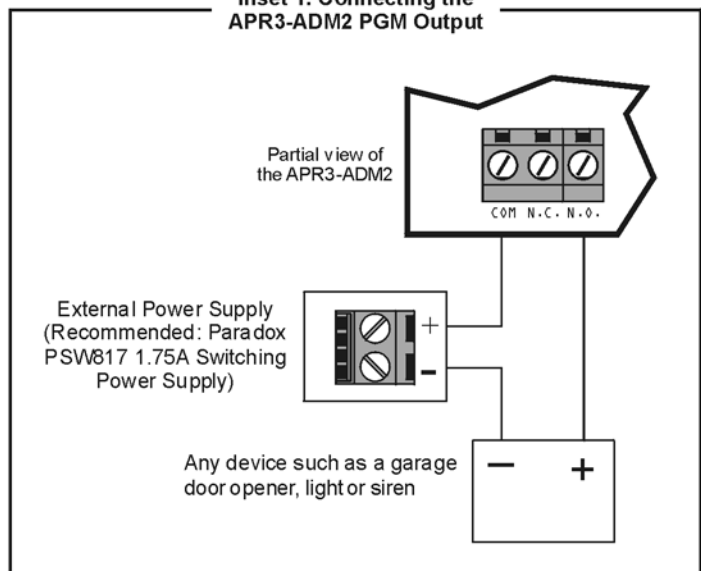


## VOICE-ASSISTED ARM/DISARM BUS MODULE (APR3-ADM2)

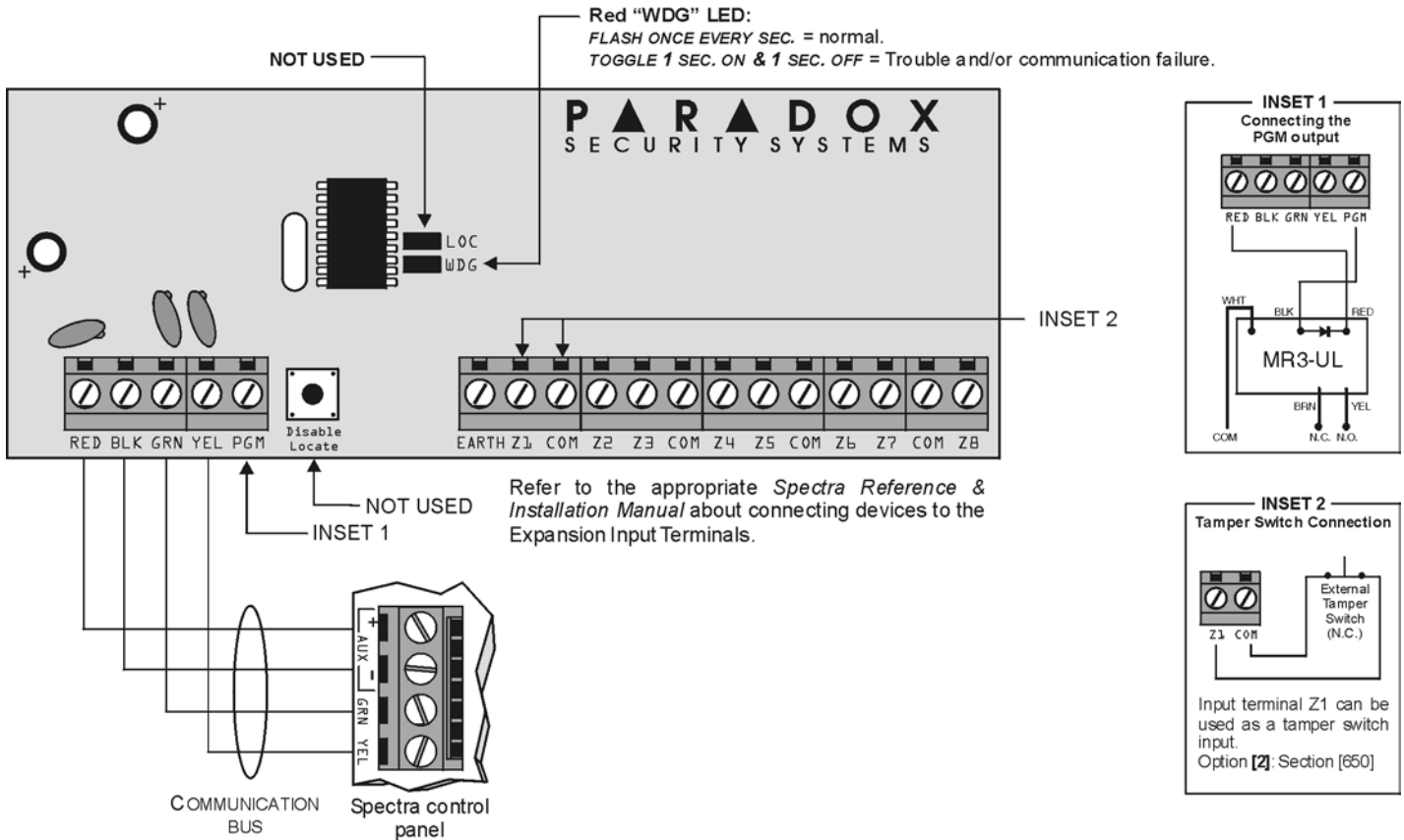
**!** Remove AC and battery power from the control panel before adding the APR3-ADM2 module to the system. Do not connect the APR3-ADM2 more than 250 feet (76m) from the control panel. Only one APR3-ADM2 can be connected per Spectra control panel.



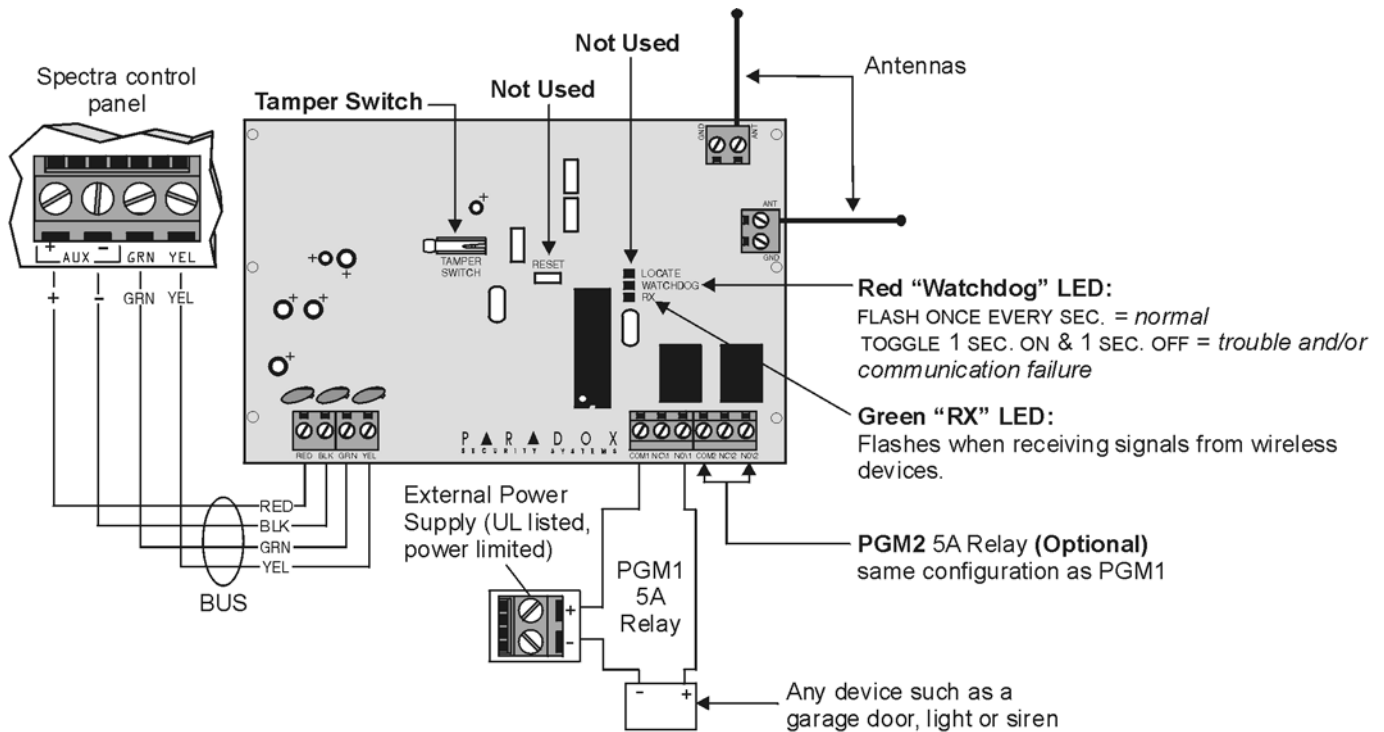
**Inset 1: Connecting the APR3-ADM2 PGM Output**



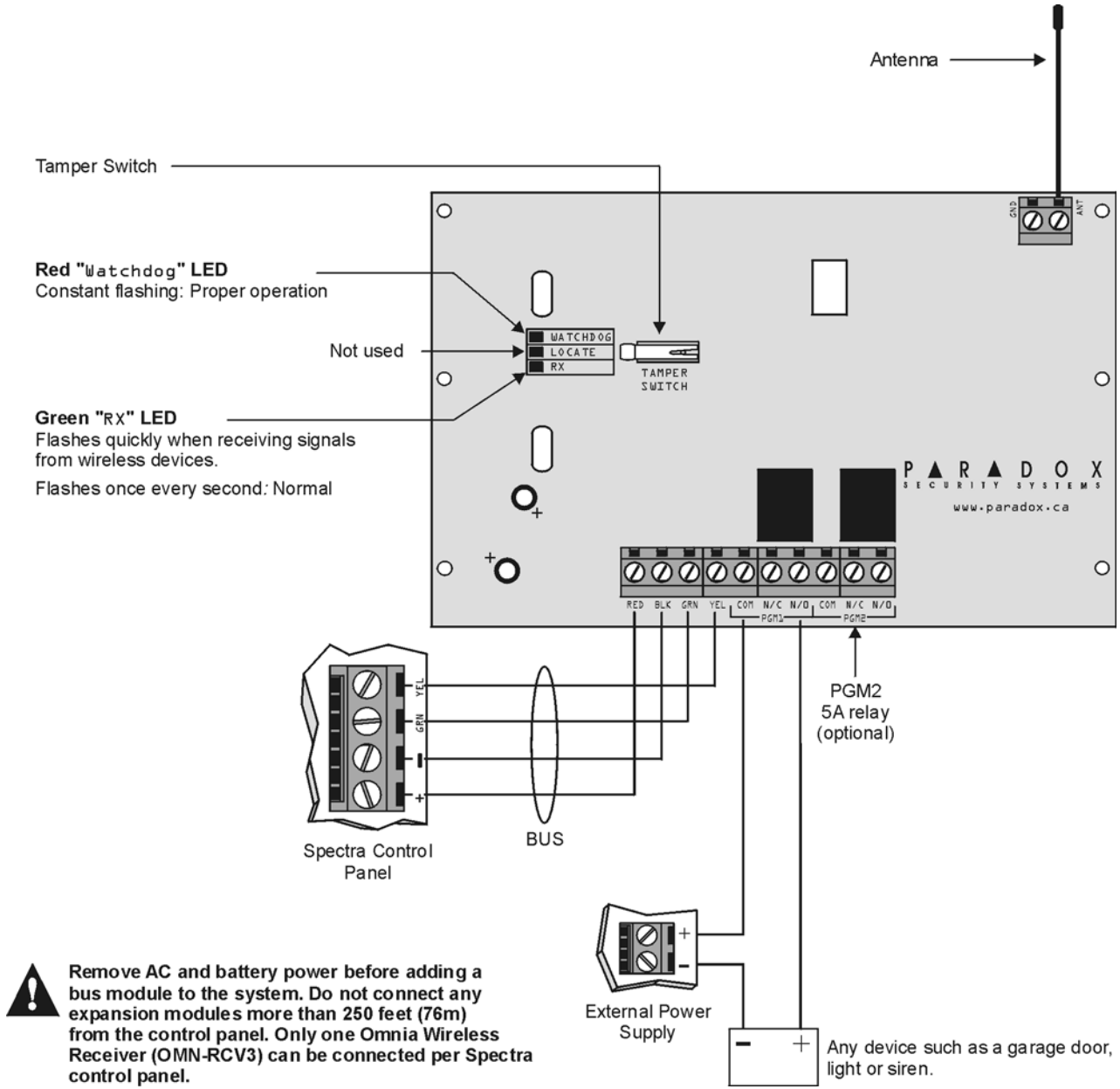
## 8-ZONE EXPANSION BUS MODULES (SPC-ZX8 AND APR3-ZX8)



## 900MHZ WIRELESS BUS MODULE (SPC-319)



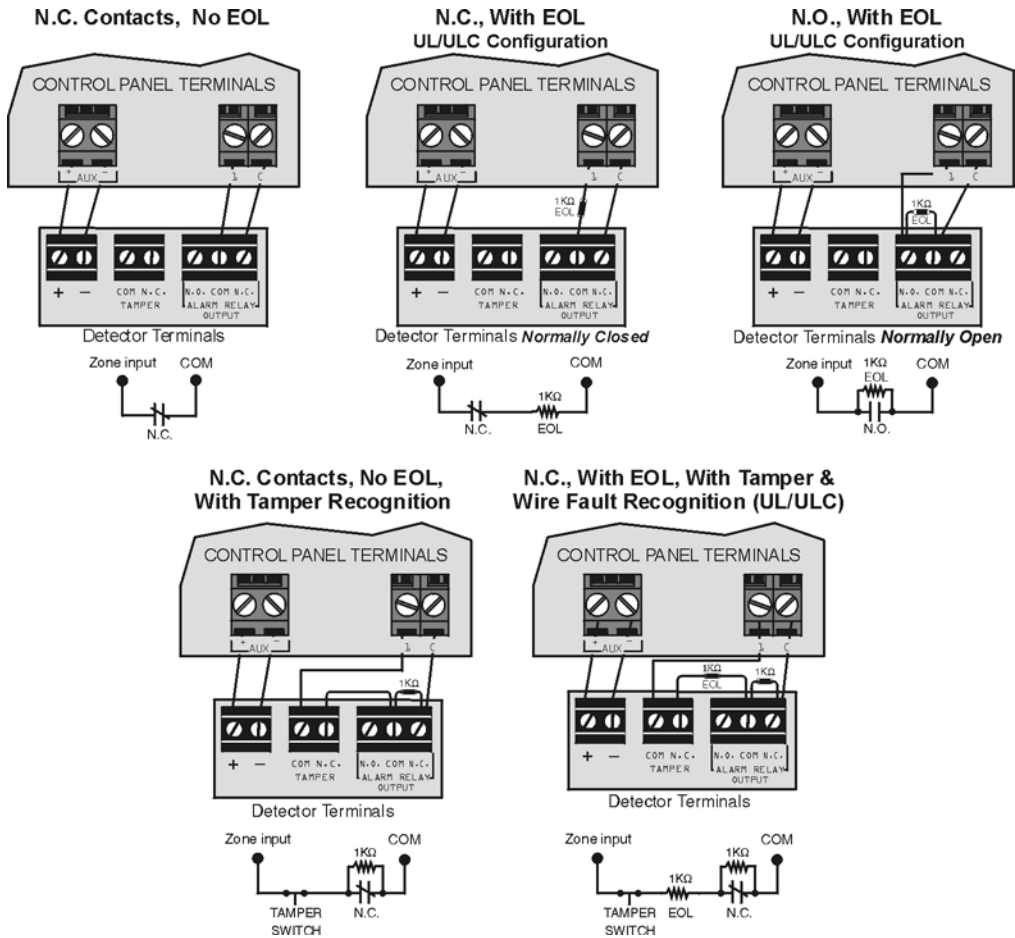
# OMNIA WIRELESS RECEIVER (OMN-RCV3)



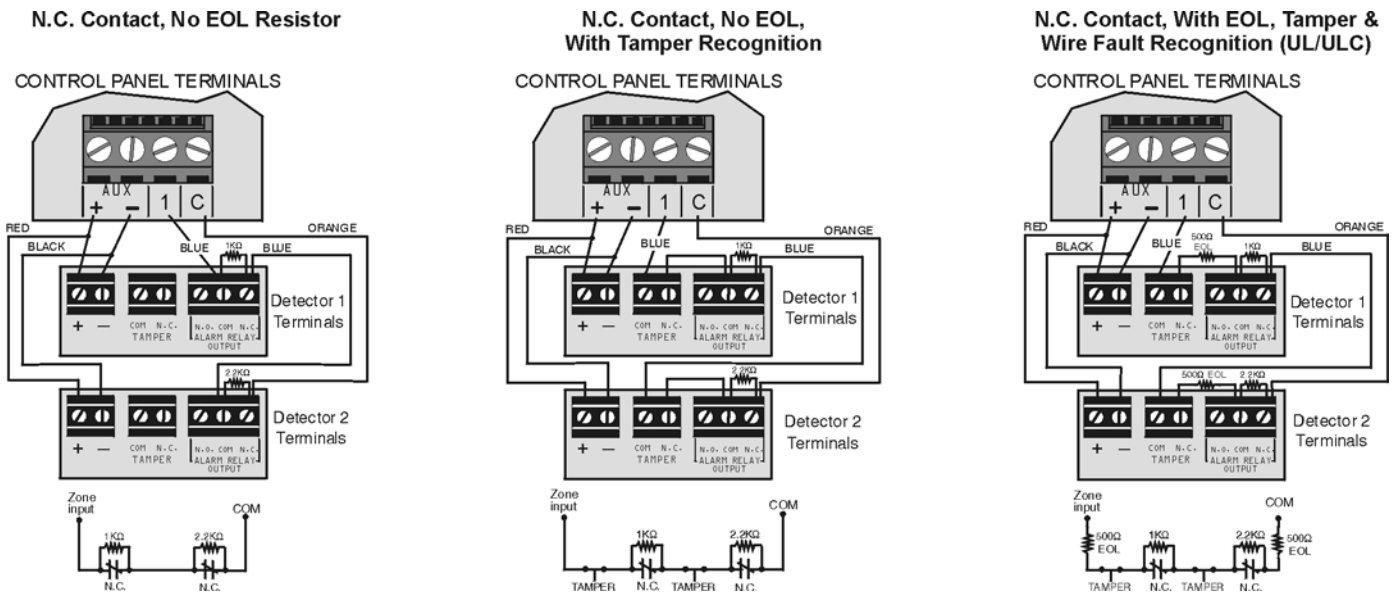
**!** Remove AC and battery power before adding a bus module to the system. Do not connect any expansion modules more than 250 feet (76m) from the control panel. Only one Omnia Wireless Receiver (OMN-RCV3) can be connected per Spectra control panel.

# HARDWARE CONNECTIONS

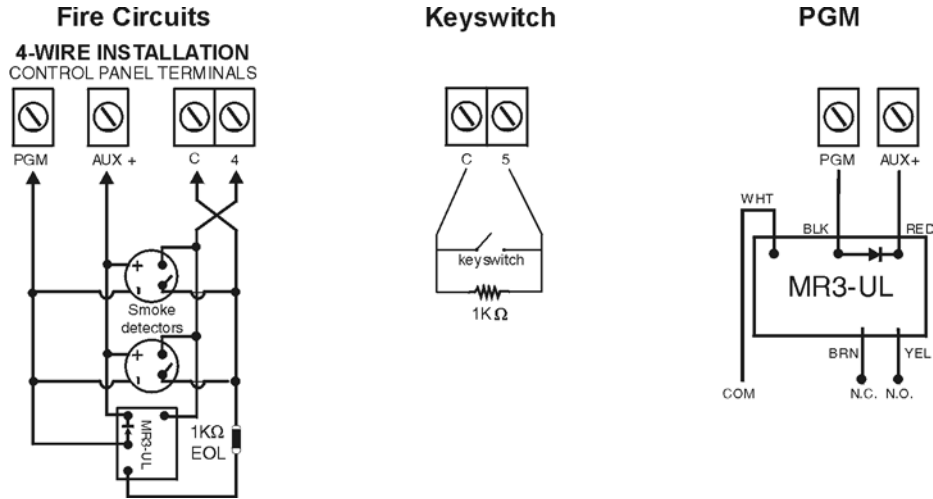
## SINGLE ZONE INPUTS



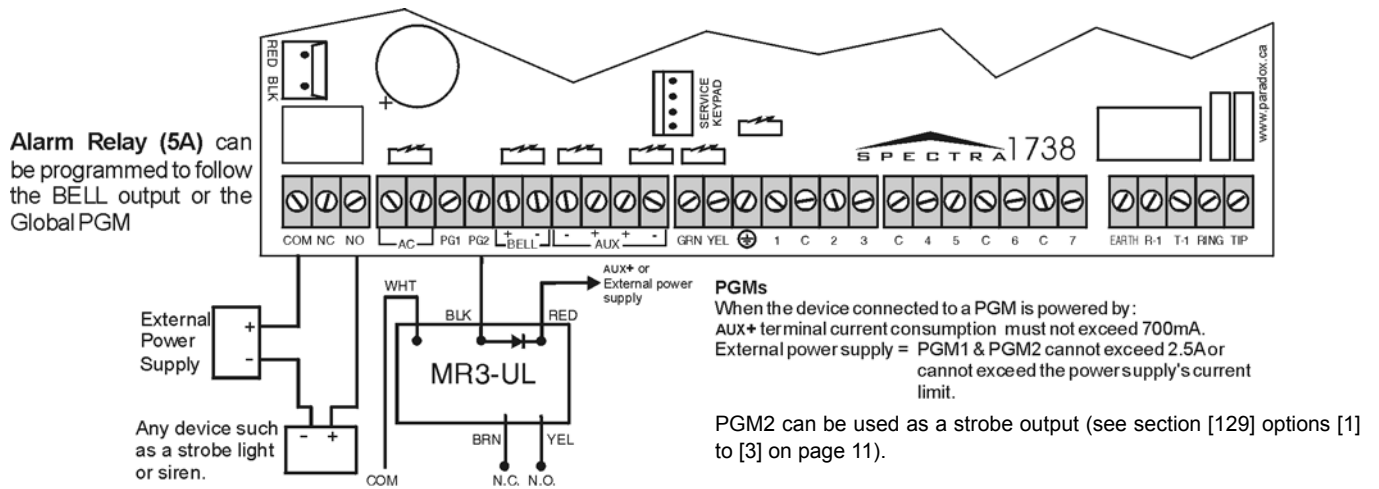
## DOUBLE ZONE INPUTS (with ATZ option only)



## CONNECTING FIRE CIRCUITS, KEYSWITCHES AND PGMS

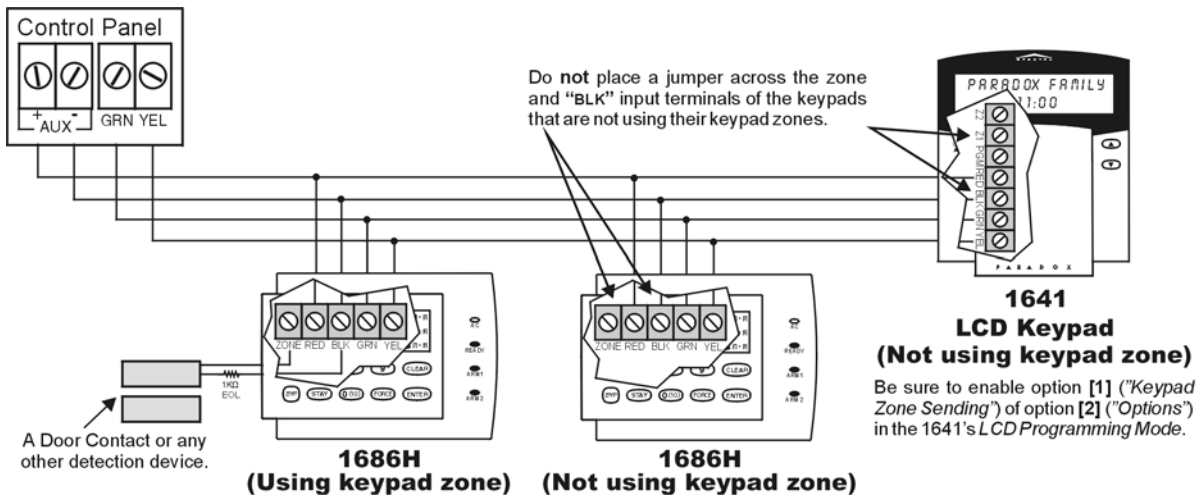


## ALARM RELAY AND PGM CONNECTIONS FOR 1738EX AND 1738



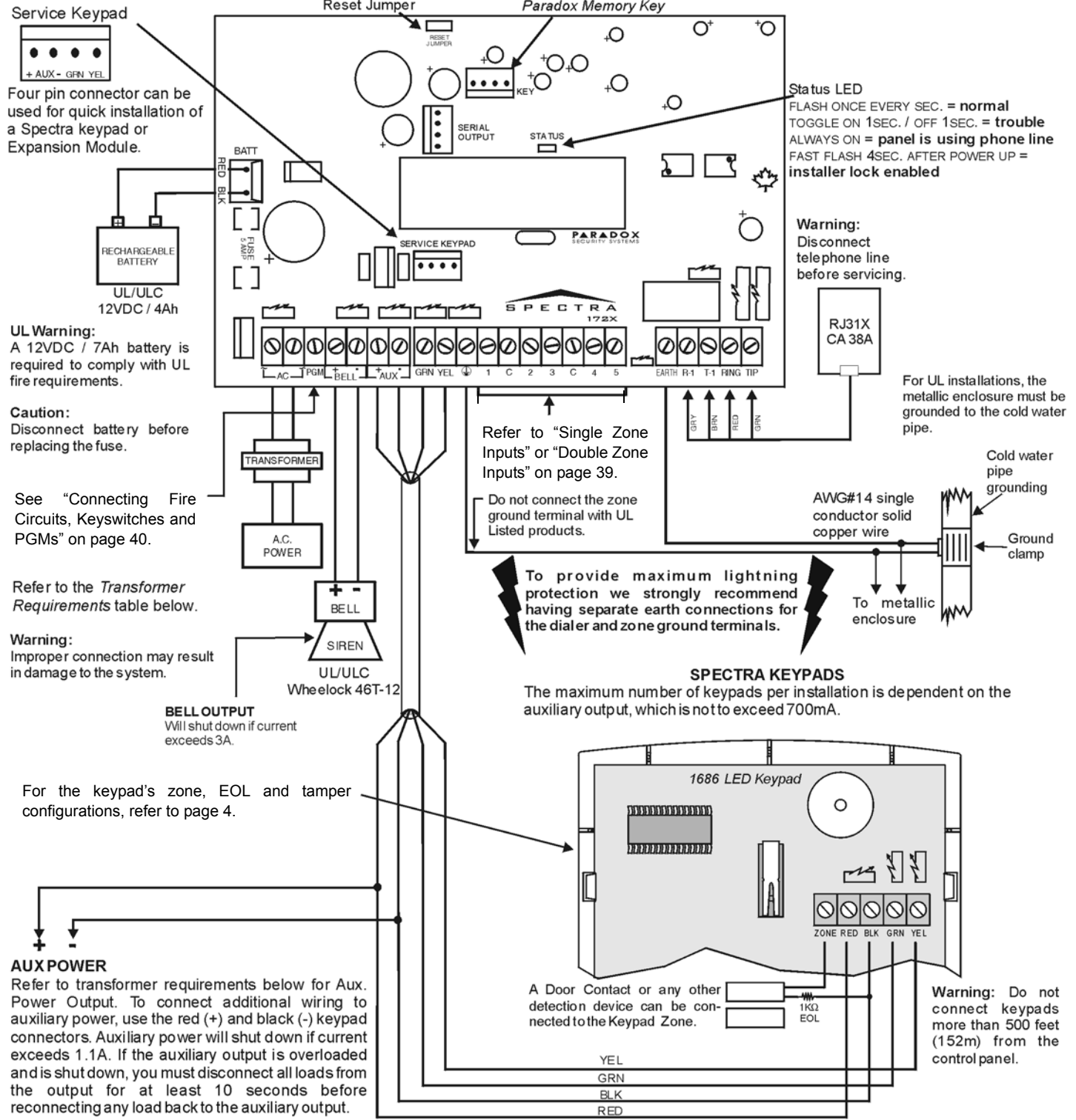
## CONNECTING MORE THAN TWO KEYPADS

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 Control Panels Reference & Installation* manual.





# SPECTRA 1728EX AND 1728 PCB LAYOUT



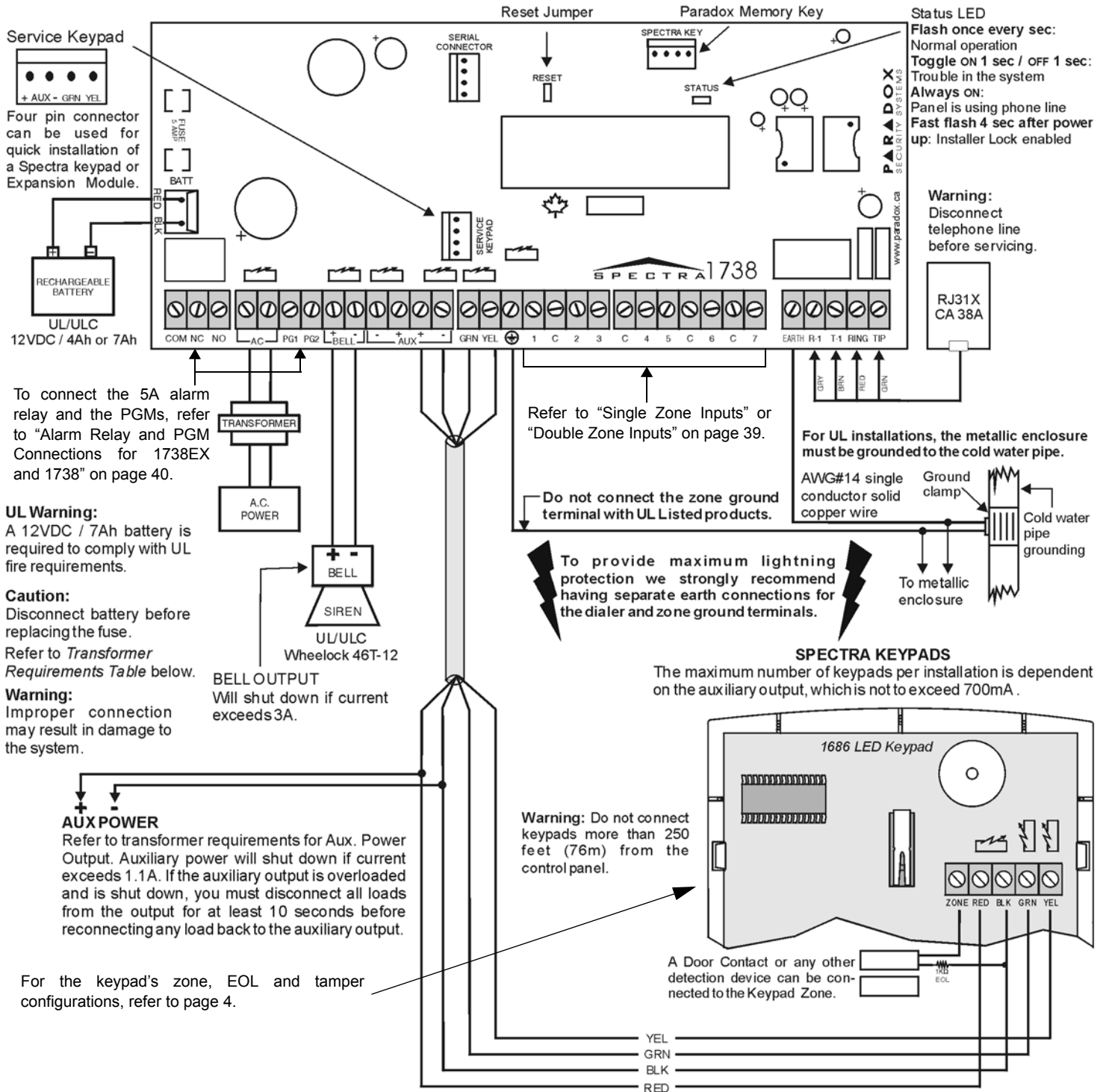
On UL Listed Systems, all outputs are rated at 11.3V to 12.6 Vdc. All outputs are Class 2 or power-limited, except for the battery terminal. The Class 2 and power-limited fire alarm circuits shall be installed using CL3, CL3R, CL3P, or substitute cable permitted by the National Electrical Code, ANSI/NFPA 70.

**Transformer Requirements Table**

Transformer:	Amseco XP-1620 16VAC <b>20VA*</b>	Recommend: 16VAC <b>40VA</b> UL: Basler BE156240CAA007
Spectra DC Power Supply rated at:	1.2A	1.5A
Auxiliary Supply can provide a maximum of:	typ: 600mA, max: 700mA	typ: 200mA
Acceptable Battery Charge Currents (section [127] option [5])	350mA	350mA/700mA

\* Not verified by UL.

# SPECTRA 1738EX AND 1738 PCB LAYOUT



On UL Listed Systems, all outputs are rated at 11.3V to 12.6Vdc. 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.

**Transformer Requirements Table**

Transformer:	Amseco XP-1620 16VAC, <b>20VA*</b>	Rec: 16.5VAC <b>40VA</b> UL: Basler BE156240CAA007
Spectra DC Power Supply rated at:	1.2A	1.5A
Auxiliary Supply can provide a maximum of:	typ: 600mA, max: 700mA	typ: 200mA
Acceptable Battery Charge Currents (section [127] option [5])	350mA	350mA/700mA

\* Not verified by UL.



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