



ESPRIT ///E55™

ESPRIT ///E65™

4 to 32 Zone Security Systems

Esprit E55 V2.0 (GSM)

Esprit E55 V3.0 (GPRS / IP)

Esprit E65 V2.1



Always Armed,
Never Disarmed

Programming Guide

P **▲** **R** **▲** **D** **O** **X**®
S E C U R I T Y S Y S T E M S

PARADOX.COM

Warranty

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

Limitations of Alarm Systems

We strongly advise that you review and take into consideration the "Limitations of Alarm Systems" document available on our website at <http://paradox.com/Terms/>.

Warning for Connections to Non-Traditional Telephony (e.g. VoIP)

Paradox alarm equipment was designed to work effectively around traditional telephone systems. For those customers who are using a Paradox alarm panel connected to a non-traditional telephone system, such as "Voice Over Internet Protocol" (VoIP) that converts the voice signal from your telephone to a digital signal traveling over the Internet, you should be aware that your alarm system may not function as effectively as with traditional telephone systems.

For example, if your VoIP equipment has no battery back-up, during a power failure your system's ability to transmit signals to the central station may be compromised. Or, if your VoIP connection becomes disabled, your telephone line monitoring feature may also be compromised. Other concerns would include, without limitation, Internet connection failures which may be more frequent than regular telephone line outages.

We therefore strongly recommend that you discuss these and other limitations involved with operating an alarm system on a VoIP or other non-traditional telephone system with your installation company. They should be able to offer or recommend measures to reduce the risks involved and give you a better understanding.

TBR-21: In order to comply with TBR-21, standard force dialing must be enabled.

UL AND ULC WARNINGS

This equipment has the capability of being programmed with features not verified for use in UL installations. To stay within these standards, the installer should use the following guidelines when configuring the system:

- All components of the system should be UL listed for the intended application.
- If used for "Fire" detection, the installer should refer to NFPA Standards #72, Chapter 2. In addition, once installation is complete, the local fire authority must be notified of the installation.
- WARNING: This equipment must be installed and maintained by qualified service personnel only
- This equipment must be verified by a qualified technician once every three years.
- All keypads must use an anti-tamper switch.
- Do not bypass fire zones.
- Maximum allowed entry delay is 45 seconds.
- Maximum allowed exit delay is 60 seconds.
- Minimum 4 minutes for bell cut-off time.
- The following features do not comply with UL requirements: Bypass Recall and Auto Trouble Shutdown.
- Do not connect the primary indicating device to a relay. The installer must use the bell output.
- To comply with UL985, the auxiliary power output should not exceed 200mA.
- Do not connect the zone ground terminal with UL Listed products.
- The metallic enclosure must be grounded to the cold water pipe.
- All outputs are Class 2 or power-limited, except for the battery terminal. The Class 2 and power-limited fire alarm circuits shall be installed using CL3, CL3R, CL3P, or substitute cable permitted by the National Electrical Code, ANSI/NFPA 70.
- EOL resistor part #2011002000
- **For UL Installations:** Universal UB1640W 16.5VAC min **40VA**
- All outputs are rated from 11.3Vdc to 12.7Vdc
- 12Vdc 4Ah rechargeable acid/lead or gel cell backup battery (YUASA model #NP7-12 recommended) for residential use. Use a 7Ah battery to comply with fire requirements.
- Wheelock 46T-12 siren

Patents

One or more of the following US patents may apply: 7046142, 6215399, 6111256, 6104319, 5920259, 5886632, 5721542, 5287111, 5119069, 5077549 and RE39406. Canadian and international patents may also apply.

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More detailed information can be found in the *Reference & Installation Manual*, which can be downloaded from our website at paradox.com.

Conventions

Default Settings: Options which are bold signify the default value:
e.g. Access code length: ☐ 6 digits ☒ **4 digits** (4 digits is the default value).



Warning or important information.

NOTE: Suggestion or reminder.



Quick Menu (see page 42)

System Overview

Module	Description	Maximum number per system	Current Consumption
K636* K10V/H K32 K32I	K636: 10-zone, 1-partition LED keypad K10V/H: 10-zone LED keypads K32: 32-zone LED keypad K32I: 32-zone, fixed-LCD keypad	15 total (including ZX8s)	K636: Min. = 15mA / Max. = 30mA K10V/H: Min. = 44mA / Max. = 72mA K32: Min. 49mA / Max. = 148mA K32I: Min. = 30mA / Max. = 70mA
VDMP3	Plug-In Voice Dialer	1	Min. = 28mA / Max. = 28mA
IP100	Internet Module	1	Min. = 90mA / Max. = 120mA
PCS100	GSM Communicator Module	1	Min. = 400mA / Max. = 1A
ZX8 & ZX8SP	8-Zone Expansion Modules	3	Min. = 29mA / Max. = 31mA

* When using a K636 keypad, only partition 1 is available. To use both partitions, use a K10V/H, K32, or K32I keypad.

Comparison Chart

Feature	Esprit E55	Esprit E65	Esprit 728ULT
StayD	✓	✓	-
Maximum Zones*	32	32	8
On-board Zones	4	9	4
Keypad Zones	15	15	2
Partitions**	2	2	2
User Codes	32	32	49
PGMs	1	3	1
Event Buffer	256	256	256
Internet TCP/IP Communication (IP100)	✓	✓	-
Landline (dialer)	✓	-	✓
Plug-In Voice Module (VDMP3)	✓	via GSM only	-
In-Field Firmware Upgradeable	✓	✓	-
Upload/Download with WinLoad Software	✓	✓	-
GSM Reporting	✓	✓	-

* When used with a K636 or K10V/H keypad, only zones 1-10 can be displayed.

** When used with a K636 keypad, only partition one can be displayed.

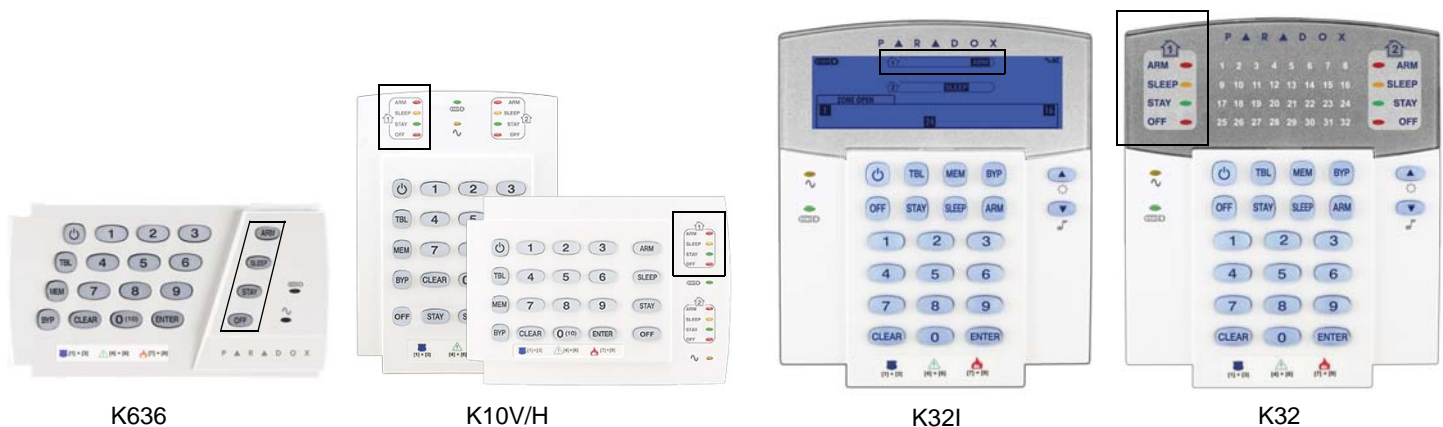
Entering Programming Mode

1. Press **[ENTER]**.
2. Enter your **[INSTALLER CODE]** (default: 000000) or **[MAINTENANCE CODE]** (no default). **[ARM]** and **[STAY]** lights flash. To modify codes, see System Codes on page 34.
3. Enter 3-digit **[SECTION]** you wish to program. **[ARM]** and **[STAY]** lights are ON.
4. Enter required **[DATA]**.

WARNING: StayD Mode must be deactivated in order to enter programming mode. To deactivate StayD, press **[OFF] + [CODE] + [OFF]**.

Data Entry & Display

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



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

There are two methods that can be used to enter data when in programming mode: Single Digit Data Entry and Feature Select Programming methods:

Single Digit Data Entry Method

After entering programming mode, some sections will require that you enter decimal values from 000 to 255. Other sections will require that you enter hexadecimal values from 0 to F. The required data will be clearly indicated in this manual. When entering the final digit in a section, the panel will automatically save and advance to the next section.

Feature Select Programming Method

After entering certain sections, eight options will be displayed where each option from **[1]** to **[8]** represents a specific feature. Press the key corresponding to the desired option. This means the option is ON. Press the key again to remove the digit, thereby, turning OFF the option. Press the **[CLEAR]** key to set all eight options to OFF. When the options are set, press the **[ENTER]** key to save and advance to the next section.

Important Settings and Modes

Section	Description
[950]	Reset all programmable sections to factory default values
[955]	Clear bus module trouble (remove disconnected module from the bus)
[970]	Download memory key into panel (see the Reference & Installation Manual)
[975]	Upload panel into the memory key (see the Reference & Installation Manual)
[980]	Display version number of the panel (see Viewing Version Numbers on page 3)

Decimal and Hexadecimal Values

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

Codes and Panel Reset

Installer Code (Default: 0000 / 000000)	The Installer code is used to enter programming mode, which allows you to program everything <u>except</u> user codes. To change the default code, go to section [397] on page 34 and refer to section [701] option [1] on page 34.
Maintenance Code (No Default)	The Maintenance code is used to enter programming mode, which allows you to program everything <u>except</u> for user codes and communication settings (sections [395], [397], [398], [815], [816], [817], [910], and [911]). To set the default code, go to section [398] on page 34 and refer to section [701] option [1] on page 34.
System Master Code (Default: 1234 / 123456)	The System Master code can use any arming method and can program user codes. To change the default code, go to section [399] on page 34 and refer to section [701] option [1] on page 34.
Panel Reset	Before powering-up the panel, connect a wire from the zone 1 input to the PGM input. Power up the panel and wait 6 seconds. Remove the wire and the panel will be reset to default.

Viewing Version Numbers

Step	Action	Details	When Viewing Keypad Version
1	Enter Viewing Mode: -For panel version , Enter section [980]. -For keypad version , Enter Installer Programming, then press and hold [ARM].	The first digit is displayed (usually "0")	Digit 1 ⇨ [ARM] is illuminated
2	Press [ENTER]	The second digit is displayed.	Digit 2 ⇨ [SLEEP] is illuminated
3	Press [ENTER]	The third digit is displayed.	Digit 3 ⇨ [STAY] is illuminated
4	Press [ENTER]	The fourth digit is displayed.	Digit 4 ⇨ [OFF] is illuminated
<p>Example: Version 01.42.</p> <p>Digits 1-4 <u> </u></p> <p>NOTE: K10V/H / K636 keypad version numbers cannot be viewed.</p>			

System Planning

Serial # Sticker	Description	Path Zone (Entry Point)	Path Zone	Path Zone	Path Zone
Keypad 1 / ZX8 / ZX8SP					
Keypad 2 / ZX8 / ZX8SP					
Keypad 3 / ZX8 / ZX8SP					
Keypad 4 / ZX8 / ZX8SP					
Keypad 5 / ZX8 / ZX8SP					
Keypad 6 / ZX8 / ZX8SP					
Keypad 7 / ZX8 / ZX8SP					
Keypad 8 / ZX8 / ZX8SP					
Keypad 9 / ZX8 / ZX8SP					
Keypad 10 / ZX8 / ZX8SP					
Keypad 11 / ZX8 / ZX8SP					
Keypad 12 / ZX8 / ZX8SP					
Keypad 13 / ZX8 / ZX8SP					
Keypad 14 / ZX8 / ZX8SP					
Keypad 15 / ZX8 / ZX8SP					

NOTE: Maximum of three ZX8 or ZX8SP modules.

To program zone definitions, zone partitions and assign options:

Zone Recognition

When expanding zones via ZX8, up to 3 ZX8 modules can be added to the system and are identified by the ZX8 3-position jumpers +1, +9 and +17.

E55 No ATZ		E55 ATZ	
Panel	Zone 1: Panel Input 1	Panel	Zone 1: Panel Input 1A
	Zone 2: Panel Input 2		Zone 2: Panel Input 2A
	Zone 3: Panel Input 3		Zone 3: Panel Input 3A
	Zone 4: Panel Input 4		Zone 4: Panel Input 4A
ZX8 Jumper	Zone 5: Input 1	ZX8 Jumper	Zone 5: Panel Input 1B
	Zone 6: Input 2		Zone 6: Panel Input 2B
	Zone 7: Input 3		Zone 7: Panel Input 3B
	Zone 8: Input 4		Zone 8: Panel Input 4B
Panel + 1	Zone 9: Input 5	Panel + 1	Zone 9: Input 1
	Zone 10: Input 6		Zone 10: Input 2
	Zone 11: Input 7		Zone 11: Input 3
	Zone 12: Input 8		Zone 12: Input 4
ZX8 Jumper	Zone 13: Input 1	ZX8 Jumper	Zone 13: Input 5
	Zone 14: Input 2		Zone 14: Input 6
	Zone 15: Input 3		Zone 15: Input 7
	Zone 16: Input 4		Zone 16: Input 8
Panel + 9	Zone 17: Input 5	Panel + 9	Zone 17: Input 1
	Zone 18: Input 6		Zone 18: Input 2
	Zone 19: Input 7		Zone 19: Input 3
	Zone 20: Input 8		Zone 20: Input 4
ZX8 Jumper	Zone 21: Input 1	ZX8 Jumper	Zone 21: Input 5
	Zone 22: Input 2		Zone 22: Input 6
	Zone 23: Input 3		Zone 23: Input 7
	Zone 24: Input 4		Zone 24: Input 8
Panel + 17	Zone 25: Input 5	Panel + 17	Zone 25: Input 1
	Zone 26: Input 6		Zone 26: Input 2
	Zone 27: Input 7		Zone 27: Input 3
	Zone 28: Input 8		Zone 28: Input 4
	Zone 29: N/A		Zone 29: Input 5
	Zone 30: N/A		Zone 30: Input 6
	Zone 31: N/A		Zone 31: Input 7
	Zone 32: N/A		Zone 32: Input 8

E65 No ATZ		E65 ATZ	
Panel	Zone 1: Panel Input 1	Panel	Zone 1: Panel Input 1A
	Zone 2: Panel Input 2		Zone 2: Panel Input 2A
	Zone 3: Panel Input 3		Zone 3: Panel Input 3A
	Zone 4: Panel Input 4		Zone 4: Panel Input 4A
ZX8 Jumper	Zone 5: Panel Input 5	ZX8 Jumper	Zone 5: Panel Input 5A
	Zone 6: Panel Input 6		Zone 6: Panel Input 6A
	Zone 7: Panel Input 7		Zone 7: Panel Input 7A
	Zone 8: Panel Input 8		Zone 8: Panel Input 8A
Panel + 1	Zone 9: Panel Input 9	Panel + 1	Zone 9: Panel Input 9A
	Zone 10: Input 1		Zone 10: Panel Input 1B
	Zone 11: Input 2		Zone 11: Panel Input 2B
	Zone 12: Input 3		Zone 12: Panel Input 3B
ZX8 Jumper	Zone 13: Input 4	ZX8 Jumper	Zone 13: Panel Input 4B
	Zone 14: Input 5		Zone 14: Panel Input 5B
	Zone 15: Input 6		Zone 15: Panel Input 6B
	Zone 16: Input 7		Zone 16: Panel Input 7B
Panel + 9	Zone 17: Input 8	Panel + 9	Zone 17: Panel Input 8B
	Zone 18: Input 1		Zone 18: Panel Input 9B
	Zone 19: Input 2		Zone 19: Input 1
	Zone 20: Input 3		Zone 20: Input 2
ZX8 Jumper	Zone 21: Input 4	ZX8 Jumper	Zone 21: Input 3
	Zone 22: Input 5		Zone 22: Input 4
	Zone 23: Input 6		Zone 23: Input 5
	Zone 24: Input 7		Zone 24: Input 6
Panel + 17	Zone 25: Input 8	Panel + 17	Zone 25: Input 7
	Zone 26: Input 1		Zone 26: Input 8
	Zone 27: Input 2		Zone 27: Input 1
	Zone 28: Input 3		Zone 28: Input 2
ZX8 Jumper	Zone 29: Input 4	ZX8 Jumper	Zone 29: Input 3
	Zone 30: Input 5		Zone 30: Input 4
	Zone 31: Input 6		Zone 31: Input 5
	Zone 32: Input 7		Zone 32: Input 6

Zone Definitions

To program zone definitions, zone partitions and assign options:

Step	Action	Details
1	[ENTER] + [INSTALLER CODE] (default: 0000 / 000000)	[ARM] + [STAY] = flash. [MAINTENANCE CODE] may also be used.
2	Enter 3-digit zone you wish to program [001] to [032]	[ARM] + [STAY] = on (see table on page 7)
3	Enter a 2-digit zone definition	2 digits: 01 to 32 (see Table 1 below)
4	Assign Partition [1] , [2] or [3]	By default, all zones are assigned to partition 1. (see Table 2)
5	Select or deselect zone options using buttons [1] to [8]	See Table 3 for zone options. See Table 4 for keyswitch options. ON = feature activated OFF = feature deactivated
6	To save and proceed to the next zone, press [ENTER]	

Table 1: Zone Definitions

Zone Definitions	Stay Arm	Sleep Arm	Fully Arm	Zone Definitions
00 = Zone Disabled (default)	-	-	-	11 = Instant Fire†
01 = Entry Delay 1	Entry Delay 1	Entry Delay 1	Entry Delay 1	12 = Delayed Fire†
02 = Entry Delay 2	Entry Delay 2	Entry Delay 2	Entry Delay 2	13 = Instant Fire Silent†
03 = Entry Delay 1 (Full Arm)	Not Armed	Not Armed	Entry Delay 1	14 = Delayed Fire Silent†
04 = Entry Delay2 (Full Arm)	Not Armed	Not Armed	Entry Delay 2	15 = 24Hr. Buzzer
05 = Follow	Follow*	Follow*	Follow	16 = 24Hr. Burglary
06 = Follow (Sleep/Full Arm)	Not Armed	Follow*	Follow	17 = 24Hr. Hold-up
07 = Follow (Full Arm)	Not Armed	Not Armed	Follow	18 = 24Hr. Gas
08 = Instant	Instant*	Instant*	Instant	19 = 24Hr. Heat
09 = Instant (Sleep/Full Arm)	Not Armed	Instant*	Instant	20 = 24Hr. Water
10 = Instant (Full Arm)	Not Armed	Not Armed	Instant	21 = 24Hr. Freeze
				22 = 24hr. Panic††
* Flex-Instant = Zone will follow the delay at section [720], (default is 15 seconds / 0 = instant zone)				23 = Follow No Pre-Alarm
** On-board hardwire control panel zones 1 to 4 (E55) or 1 to 9 (E65)				24 = Instant No Pre-Alarm
† Only on-board zones can be defined as fire zones				25 = Keyswitch Maintain**
†† This alarm will follow the Panic 1 option (section [702], option [1])				26 = Keyswitch Momentary**

NOTE: For more zone options, see sections [705] and [706] on page 8.

Table 2 Partition Assignment

[1]- Partition 1† [2]- Partition 2† [3]- Both partitions†
† When using a K636 keypad, only partition 1 is available. To use both partitions, use a K10V/H, K32, or K32I keypad.

Table 3 Zone Options

[1] = Auto-zone Shutdown [2] = Bypassable Zone [3] = N/A
[4] [5] OFF OFF Audible Alarm OFF ON Pulsed Alarm ON OFF Silent Alarm ON ON Report Only [6] = Intellizone [7] = Delay alarm transmission [8] = Force Zone

Table 4 Keyswitch Options

[1]- N/A [2]- N/A [3]- N/A [4] OFF = Disarm ON = Disarm only if Stay/Sleep armed [5] = Arm only [6] = Stay arming‡ [7] = Sleep arming‡ [8] = N/A
‡ Select only one. If all are off, key-switch will regular arm.

Section	Zone*	Zone Definition	Partition	Zone Options
			(For a one-partition system, use K636 keypads. For a two-partition system, use K10V/H, K32, or K32I keypads.)	
[001]	Zone 1: _____	____/____	_____	1 2 3 4 5 6 7 8
[002]	Zone 2: _____	____/____	_____	1 2 3 4 5 6 7 8
[003]	Zone 3: _____	____/____	_____	1 2 3 4 5 6 7 8
[004]	Zone 4: _____	____/____	_____	1 2 3 4 5 6 7 8
[005]	Zone 5: _____	____/____	_____	1 2 3 4 5 6 7 8
[006]	Zone 6: _____	____/____	_____	1 2 3 4 5 6 7 8
[007]	Zone 7: _____	____/____	_____	1 2 3 4 5 6 7 8
[008]	Zone 8: _____	____/____	_____	1 2 3 4 5 6 7 8
[009]	Zone 9: _____	____/____	_____	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
[017]	Zone 17: _____	____/____	_____	1 2 3 4 5 6 7 8
[018]	Zone 18: _____	____/____	_____	1 2 3 4 5 6 7 8
[019]	Zone 19: _____	____/____	_____	1 2 3 4 5 6 7 8
[020]	Zone 20: _____	____/____	_____	1 2 3 4 5 6 7 8
[021]	Zone 21: _____	____/____	_____	1 2 3 4 5 6 7 8
[022]	Zone 22: _____	____/____	_____	1 2 3 4 5 6 7 8
[023]	Zone 23: _____	____/____	_____	1 2 3 4 5 6 7 8
[024]	Zone 24: _____	____/____	_____	1 2 3 4 5 6 7 8
[025]	Zone 25: _____	____/____	_____	1 2 3 4 5 6 7 8
[026]	Zone 26: _____	____/____	_____	1 2 3 4 5 6 7 8
[027]	Zone 27: _____	____/____	_____	1 2 3 4 5 6 7 8
[028]	Zone 28: _____	____/____	_____	1 2 3 4 5 6 7 8
[029]	Zone 29: _____	____/____	_____	1 2 3 4 5 6 7 8
[030]	Zone 30: _____	____/____	_____	1 2 3 4 5 6 7 8
[031]	Zone 31: _____	____/____	_____	1 2 3 4 5 6 7 8
[032]	Zone 32: _____	____/____	_____	1 2 3 4 5 6 7 8

* See Zone Recognition on page 5.

NOTE: For keypad zone programming, see page 10.

[705] General Zone Options 1

Option

- [1] ATZ zone doubling ☐ OFF Disabled ☐ ON Enabled
- [2] ATZ wiring options ☐ Series ☐ Parallel

Tamper Recognition

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

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

- [5] Generate tamper on bypassed zone ☐ No ☐ Yes

Supervision Options

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

- [8] N/A N/A N/A

[706] General Zone Options 2

Option

- [1] N/A OFF N/A ON
- [2] EOL resistors ☐ Disabled ☐ Enabled
- [3] N/A N/A N/A
- [4] ZX8 ID (Panel + 1) Input 1 ☐ Zone input ☐ Tamper input
- [5] ZX8 ID (Panel + 9) Input 1 ☐ Zone input ☐ Tamper input
- [6] ZX8 ID (Panel + 17) Input 1 ☐ Zone input ☐ Tamper input

Zone Timers

Section	E55	E65	Data	Description (Default 060)
[041]	Zone 1 (Z1):	(Z1):	___/___/___ (000 to 255) x 10ms	Hardwire Zone 1 Speed
[042]	Zone 2 (Z2):	(Z2):	___/___/___ (000 to 255) x 10ms	Hardwire Zone 2 Speed
[043]	Zone 3 (Z3):	(Z3):	___/___/___ (000 to 255) x 10ms	Hardwire Zone 3 Speed
[044]	Zone 4 (Z4):	(Z4):	___/___/___ (000 to 255) x 10ms	Hardwire Zone 4 Speed
[045]	Zone 5 (Z1 with ATZ):	(Z5):	___/___/___ (000 to 255) x 10ms	Hardwire Zone 5 Speed
[046]	Zone 6 (Z2 with ATZ):	(Z6):	___/___/___ (000 to 255) x 10ms	Hardwire Zone 6 Speed
[047]	Zone 7 (Z3 with ATZ):	(Z7):	___/___/___ (000 to 255) x 10ms	Hardwire Zone 7 Speed
[048]	Zone 8 (Z4 with ATZ):	(Z8):	___/___/___ (000 to 255) x 10ms	Hardwire Zone 8 Speed
[049]	Zone 9 N/A	(Z9):	___/___/___ (000 to 255) x 10ms	Hardwire Zone 9 Speed
[050]	Zone 10 N/A	(Z1 with ATZ):	___/___/___ (000 to 255) x 10ms	Hardwire Zone 10 Speed
[051]	Zone 11 N/A	(Z2 with ATZ):	___/___/___ (000 to 255) x 10ms	Hardwire Zone 11 Speed
[052]	Zone 12 N/A	(Z3 with ATZ):	___/___/___ (000 to 255) x 10ms	Hardwire Zone 12 Speed
[053]	Zone 13 N/A	(Z4 with ATZ):	___/___/___ (000 to 255) x 10ms	Hardwire Zone 13 Speed

Section		E55	E65	Data		Description (Default 060)
[054]	Zone 14	N/A	(Z5 with ATZ):	___/___/___	(000 to 255) x 10ms	Hardwire Zone 14 Speed
[055]	Zone 15	N/A	(Z6 with ATZ):	___/___/___	(000 to 255) x 10ms	Hardwire Zone 15 Speed
[056]	Zone 16	N/A	(Z7 with ATZ):	___/___/___	(000 to 255) x 10ms	Hardwire Zone 16 Speed

NOTE: For zones 17 and 18 (ATZ on the E65,) the zone timer is set at 600ms.

Zone Report Codes (Default = FF)

[966] Clear Zone Report Codes

Option	OFF	ON
[1] Clear zone report codes*	<input type="checkbox"/> Disabled	<input type="checkbox"/> Enabled

* Ensure all other options are deselected. Press [ENTER] to reset the respective set of report codes to default before exiting the section.

[967] Reset Zone Report Codes


Option	OFF	ON
[1] Reset zone report codes to default*	<input type="checkbox"/> Disabled	<input type="checkbox"/> Enabled

* Press [ENTER] to reset the respective set of report codes to default before exiting the section.

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

Keypad Programming

Keypad Zone Number Assignment

Step	Action	Details
1	[ENTER] + [INSTALLER CODE] (default: 0000 / 000000)	[ARM] + [STAY] = flash. [MAINTENANCE CODE] may also be used.
2	Press and hold  (3sec)	[ARM] + [STAY] = on
3	[ZONE NUMBER] + [ENTER]*	K32LED / K32I = 2 digits: 01 to 32 K10V/H / K636 = 1 digit: 1 to 0(10) (can only assign zones 1-10) * To erase a keypad zone number, press [CLEAR] , then [ENTER] .

Entry Point Zone Assignment (StayD)

Step	Action	Details
1	[ENTER] + [INSTALLER CODE] (default: 0000 / 000000)	[ARM] + [STAY] = flash.
2	Press and hold [OFF] (3sec)	[ARM] + [STAY] = on
3	[ZONE NUMBER]*	K32LED / K32I = 2 digits: 01 to 32 K10V/H / K636 = 1 digit: 1 to 0(10) (can only assign zones 1-10) * The first zone you program will be the designated entry point and will flash. Up to three more path zones can be added; these zones will light up and stay lit.
4	[ENTER]	Press [ENTER] to save and exit

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

Step	Action	Details
1	[ENTER] + [INSTALLER CODE] (default: 0000 / 000000)	[ARM] + [STAY] = flash.
2	Press and hold [ARM] (3sec)	[ARM] + [STAY] = on
3	Option [1]	ON = Output switches to ground following system arming (Blue wire 150mA max.). OFF = Input (Keypad zone input)
4	Option [2]	ON = Output N.C. OFF = Output N.O.

NOTE: When configuring as an output, you must first clear the keypad zone (if assigned).

[701] Keypad Options

Option	OFF	ON
[3] Confidential mode	<input type="checkbox"/> Disabled	<input type="checkbox"/> Enabled
[4] To exit confidential mode	<input type="checkbox"/> Enter a code	<input type="checkbox"/> Press a key
[5] Confidential mode timer	<input type="checkbox"/> 2 minutes	<input type="checkbox"/> 5 seconds

[703] Keypad Options

Option	OFF	ON
[1] One-touch regular arming	<input type="checkbox"/> Disabled	<input type="checkbox"/> Enabled
[2] One-touch stay arming	<input type="checkbox"/> Disabled	<input type="checkbox"/> Enabled
[3] One-touch sleep arming	<input type="checkbox"/> Disabled	<input type="checkbox"/> Enabled
[4] One-touch bypass programming	<input type="checkbox"/> Disabled	<input type="checkbox"/> Enabled

[704] Keypad Options

Option		OFF	ON
[5]	Bell squawk when arm/disarm with a keypad	<input type="checkbox"/> Disabled	<input type="checkbox"/> Enabled
[6]	Beep on exit delay	<input type="checkbox"/> Disabled	<input type="checkbox"/> Enabled
[7]	No exit delay beeps and no bell squawk when stay/sleep arm	<input type="checkbox"/> Disabled	<input type="checkbox"/> Enabled

Keypad Lockout

	Data	Description	
[716]	___/___/___	(000 to 255) minutes	Keypad lockout delay (default 000)
[717]	___/___/___	(000 to 255) attempt before locking	Keypad lockout counter (default 000)

Partition Programming

NOTE: When using a K636 keypad, only partition 1 is available. To use both partitions, use a K10V/H, K32, or K32I keypad.

[700] Partitioning

Option		OFF	ON
[1]	Partitioning	<input type="checkbox"/> Disabled	<input type="checkbox"/> Enabled

[741] Partition 1 Options

Option		OFF	ON												
[1]	Auto-arm on time	<input checked="" type="checkbox"/> Disabled	<input type="checkbox"/> Enabled												
[2]	Auto-arm on no movement	<input checked="" type="checkbox"/> Disabled	<input type="checkbox"/> Enabled												
	Auto-arm arming mode	<input type="checkbox"/> See Table	<input type="checkbox"/> See Table												
[3]& [4]	<table><tr><th>[3]</th><th>[4]</th><th></th></tr><tr><td>OFF</td><td>OFF</td><td>Regular</td></tr><tr><td>OFF</td><td>ON</td><td>Sleep</td></tr><tr><td>ON</td><td>OFF</td><td>Stay</td></tr></table>	[3]	[4]		OFF	OFF	Regular	OFF	ON	Sleep	ON	OFF	Stay		
[3]	[4]														
OFF	OFF	Regular													
OFF	ON	Sleep													
ON	OFF	Stay													
[5]	Switch to stay arming if no zone entry delay is opened	<input checked="" type="checkbox"/> Disabled	<input type="checkbox"/> Enabled												
[6]	Follow zones become entry delay 2 when delay zone is bypassed	<input checked="" type="checkbox"/> Disabled	<input type="checkbox"/> Enabled												
[7]& [8]	N/A	N/A	N/A												

Bold = Default setting

[742] Partition 2 Options

Option		OFF	ON												
[1]	Auto-arm on time	<input checked="" type="checkbox"/> Disabled	<input type="checkbox"/> Enabled												
[2]	Auto-arm on no movement	<input checked="" type="checkbox"/> Disabled	<input type="checkbox"/> Enabled												
	Auto-arm arming mode	<input type="checkbox"/> See Table	<input type="checkbox"/> See Table												
[3]& [4]	<table><tr><th>[3]</th><th>[4]</th><th></th></tr><tr><td>OFF</td><td>OFF</td><td>Regular</td></tr><tr><td>OFF</td><td>ON</td><td>Sleep</td></tr><tr><td>ON</td><td>OFF</td><td>Stay</td></tr></table>	[3]	[4]		OFF	OFF	Regular	OFF	ON	Sleep	ON	OFF	Stay		
[3]	[4]														
OFF	OFF	Regular													
OFF	ON	Sleep													
ON	OFF	Stay													
[5]	Switch to stay arming if no entry delay is opened	<input checked="" type="checkbox"/> Disabled	<input type="checkbox"/> Enabled												
[6]	Follow zones become entry delay 2 when delay zone is bypassed	<input checked="" type="checkbox"/> Disabled	<input type="checkbox"/> Enabled												

Partition Timers



Refer to the Installer Quick Menu on page 42 for alternate entry/exit and bell cut-off timer programming.

Section	Data	Description
[745]	___/___/___	(000 to 255) seconds Partition 1 exit delay (default 060)
[746]	___/___/___	(000 to 255) seconds Partition 2 exit delay (default 060)
[747]	___/___/___	(000 to 255) minutes Partition 1 bell cut-off (default 004)
[748]	___/___/___	(000 to 255) minutes Partition 2 bell cut-off (default 004)

Section	Data	Description
[749] ___/___/___	(000 to 255) x 15 minutes	Partition 1 no movement (default 000)
[750] ___/___/___	(000 to 255) x 15 minutes	Partition 2 no movement (default 000)
Section	Data	Description
[761] ___/___:___/___	HH: MM	Auto-arm on time Partition 1 (default 00:00)
[762] ___/___:___/___	HH: MM	Auto-arm on time Partition 2 (default 00:00)

System Programming

[700] General System Options

Option	OFF	ON
[3] Audible trouble warning (except AC failure)	<input type="checkbox"/> Disabled	<input type="checkbox"/> Enabled
[4] Audible trouble warning on AC failure	<input type="checkbox"/> Disabled	<input type="checkbox"/> Enabled
[6] Exit delay termination	<input type="checkbox"/> Disabled	<input type="checkbox"/> Enabled
[7] Tamper supervision on the bus module	<input type="checkbox"/> Disabled	<input type="checkbox"/> Enabled

[702] Panic Options

Option	OFF	ON
[1] Panic 1	<input checked="" type="checkbox"/> Disabled	<input type="checkbox"/> Enabled
[2] Panic 2	<input checked="" type="checkbox"/> Disabled	<input type="checkbox"/> Enabled
[3] Panic 3	<input checked="" type="checkbox"/> Disabled	<input type="checkbox"/> Enabled
[4] Panic 1: Report only or audible alarm	<input checked="" type="checkbox"/> Report only	<input type="checkbox"/> Audible
[5] Panic 2: Report only or audible alarm	<input checked="" type="checkbox"/> Report only	<input type="checkbox"/> Audible
[6] Panic 3: Report only or audible alarm	<input checked="" type="checkbox"/> Report only	<input type="checkbox"/> Audible

[703] Arming/Disarming Options 1

Option	OFF	ON
[5] Restrict arming on battery failure	<input checked="" type="checkbox"/> Disabled	<input type="checkbox"/> Enabled
[6] Restrict arming on tamper failure (Zone + Bus Module)	<input checked="" type="checkbox"/> Disabled	<input type="checkbox"/> Enabled
[8] Calling the VDMP3	<input type="checkbox"/> Disabled	<input checked="" type="checkbox"/> Enabled

[704] Arming/Disarming Options 2

Option	OFF	ON
[1] Regular arming switches to force arming	<input type="checkbox"/> Disabled	<input checked="" type="checkbox"/> Enabled
[2] Stay arming switches to stay force arming	<input type="checkbox"/> Disabled	<input checked="" type="checkbox"/> Enabled
[3] Sleep arming switches to sleep force arming	<input type="checkbox"/> Disabled	<input checked="" type="checkbox"/> Enabled

System Timers See Quick Menus on page 42

Section	Data	Description
[710] ___/___/___	(000 to 255) seconds	Entry delay 1 (default 045)
[711] ___/___/___	(000 to 255) seconds	Entry delay 2 (default 045)
[712] ___/___/___	(000 to 015)	Auto zone shutdown counter (default 005)
[713] ___/___/___	(000 to 255) seconds	Intellizone delay (default 048)
[714] ___/___/___	(000 to 255) minutes	Recycle alarm delay (default 000)
[715] ___/___/___	(000 to 255)	Recycle alarm counter (default 000)
[718] N/A	N/A	N/A
[719] ___/___/___	(000 to 255) days	Closing delinquency delay (default 000)
[720] ___/___/___	(000 to 255) seconds	For StayD: Flex-Instant delay (default 015)
[721] ___/___/___	(000 to 255) seconds	For StayD: Re-arm delay (default 005)

Communication Programming

The Communication Programming section is divided into sections corresponding to each installation type. Begin by programming the General Communications Options, and then program for one or more of the following specific installation types:

- **Landline** - (E55 only) see page 15
- **GSM** (PCS100 GSM edition) - see page 16
- **Network** - GPRS/IP (PCS100 GPRS edition / IP100) - see page 18

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

E-Series Comparison Chart

Security Features	E55 V2.0 (GSM Edition)	E55 V3.0 (GPRS Edition)	E65
• GPRS Reporting (PCS100 GPRS)	-	✓	✓
• GSM Reporting and SMS (PCS100 GSM)	✓	-	✓
• IP Reporting (IP100)	-	✓	✓
• E-Mail/Monitoring (IP100)	✓	✓	✓
• On-board Zones	4 (8 with ATZ)	4 (8 with ATZ)	9 (18 with ATZ)
• On-board PGMs	1	1	3
• Patented dialer*	✓	✓	-
• Supports VDMP3	✓	✓	Via GSM (PCS100)

* Patented 2 opto coupler dialer circuit - the most reliable dialer in the industry (US Patents 5751803, RE39406)

General Communications Options

The following sections apply to all systems that report to a monitoring station:

[801] Dialer Options

Option	OFF	ON
[1] Report system disarming	<input type="checkbox"/> Always	<input checked="" type="checkbox"/> After alarm
[2] Report zone restore	<input checked="" type="checkbox"/> Bell cutoff	<input type="checkbox"/> Zone closure
[3]+[4]		

Auto-Test Report Transmission Options	
[3]	[4] Auto-Test Report Transmission Options
OFF	OFF Transmit the test report code every time the days programmed in section [840] have elapsed at the time programmed in section [850] (default).
OFF	ON When disarmed: Transmit test report code every time the time programmed in section [852] has elapsed. When armed: Transmit test report code every time the time programmed in section [851] has elapsed.
ON	OFF The control panel will transmit the test report code every hour on the minute value programmed in section [850] (the last two digits). Note that the first two digits of section [850] will be ignored. <i>E.g. If 10:25 was programmed into section [850], the test report code would be transmitted at the 25th minute of every hour, i.e. 11:25, 12:25, etc.</i>
ON	ON The test report code will be transmitted when any of the conditions of the second and third options listed above (options [3] = OFF and [4] = ON / options [3] = ON and [4] = OFF) are met.

[5] Contact ID Override	<input type="checkbox"/> Disabled	<input type="checkbox"/> CID defaults / slow format custom
-------------------------	-----------------------------------	--

[802] Event Call Direction Options 1

Option	OFF	ON
[1] Call tel. #1 / monitoring rcvr. #1 for arm/disarm report codes	<input type="checkbox"/> Disabled	<input checked="" type="checkbox"/> Enabled
[2] Call tel. #2 / monitoring rcvr. #2 for arm/disarm report codes	<input type="checkbox"/> Disabled	<input checked="" type="checkbox"/> Enabled
[3] Call pager for arm/disarm report codes	<input checked="" type="checkbox"/> Disabled	<input type="checkbox"/> Enabled
[5] Call tel. #1 / monitoring rcvr. #1 for alarm/restore report codes	<input type="checkbox"/> Disabled	<input checked="" type="checkbox"/> Enabled
[6] Call tel. #2 / monitoring rcvr. #2 for alarm/restore report codes	<input type="checkbox"/> Disabled	<input checked="" type="checkbox"/> Enabled
[7] Call pager for alarm/restore report codes	<input type="checkbox"/> Disabled	<input checked="" type="checkbox"/> Enabled

Option		OFF	ON
[1]	Call tel. #1 / monitoring rcvr. #1 for tamper/restore report codes	<input type="checkbox"/> Disabled	<input checked="" type="checkbox"/> Enabled
[2]	Call tel. #2 / monitoring rcvr. #2 for tamper/restore report codes	<input type="checkbox"/> Disabled	<input checked="" type="checkbox"/> Enabled
[3]	Call pager for tamper/restore report codes	<input checked="" type="checkbox"/> Disabled	<input type="checkbox"/> Enabled
[5]	Call tel. #1 / monitoring rcvr. #1 for trouble/restore report codes	<input type="checkbox"/> Disabled	<input checked="" type="checkbox"/> Enabled
[6]	Call tel. #2 / monitoring rcvr. #2 for trouble/restore report codes	<input type="checkbox"/> Disabled	<input checked="" type="checkbox"/> Enabled
[7]	Call pager for trouble/restore report codes	<input checked="" type="checkbox"/> Disabled	<input type="checkbox"/> Enabled

Option	OFF	ON
[1] Call tel. #1 / monitoring rcvr. #1 for special report codes	<input type="checkbox"/> Disabled	<input checked="" type="checkbox"/> Enabled
[2] Call tel. #2 / monitoring rcvr. #2 for special report codes	<input type="checkbox"/> Disabled	<input checked="" type="checkbox"/> Enabled
[3] Call pager for special report codes	<input checked="" type="checkbox"/> Disabled	<input type="checkbox"/> Enabled
[5] Call personal tel. # on zone alarm (burglary/fire)	<input type="checkbox"/> Disabled	<input checked="" type="checkbox"/> Enabled
[6] Call personal tel. # on panic alarms	<input type="checkbox"/> Disabled	<input checked="" type="checkbox"/> Enabled
[7] Call personal tel. # on paramedic alarm	<input type="checkbox"/> Disabled	<input checked="" type="checkbox"/> Enabled
[8] Call personal tel. # on panel power trouble	<input checked="" type="checkbox"/> Disabled	<input type="checkbox"/> Enabled

		OFF	ON
[1]	Call back	<input type="checkbox"/> Disabled	<input type="checkbox"/> Enabled
[2]	Automatic event buffer transmission	<input type="checkbox"/> Disabled	<input type="checkbox"/> Enabled

[illegible]

Section	Data	Description
[810]	____/____ TEL1 TEL2	Reporting format 0 = Ademco Slow 1 = Silent Knight Fast 2 = SESCOA 3 = Ademco Express 4 = Ademco Contact ID (default)
[811]	____/____/____/____	Partition 1 Account number
[812]	____/____/____/____	Partition 2 Account number

Section	Data	Description
[830]	___/___/___ (000 to 255) x 2 seconds	TLM fail delay (default 016)
[831]	___/___/___ (000 to 032)	Maximum dialing attempts monitoring station (default 008)
[832]*	___/___/___ (000 to 127) seconds	Delay between dialing attempts* (default 020)
[833]	___/___/___ (000 to 255) seconds	Delay alarm transmission (default 000)
[834]	___/___/___ (000 to 127) seconds	Pager reporting delay (default 020)
[835]	___/___/___ (000 to 010)	Pager reporting message repetition (default 003)
[836]*	___/___/___ (000 to 127) seconds	Personal reporting delay* (default 005)
[837]*	___/___/___ (000 to 010)	Personal reporting message repetition* (default 003)

* This section applies when using a VDMP3 Plug-In Voice Module.

[703] Arm/disarm with VDMP3

Section	Data	Description
[841]	___/___/___ (000 to 032)	Maximum voice dialing attempts - VDMP3 (default 008)

Landline Communication (E55 only)

[800] Dialer Options

Telephone Line Monitoring (TLM) Options		
[1]	[2]	
OFF	OFF	Disabled
OFF	ON	When disarmed: Trouble only When armed: Trouble only
ON	OFF	When disarmed: Trouble only When armed: Audible alarm
ON	ON	Silent alarms become Audible alarm

* This option also applies to GSM communication.

[illegible]

PCS100 Programming

[805] GSM Options

Option

GSM Reporting*			
[1]	[2]	Primary	Backup
[1] & [2]	OFF	OFF	Landline
	OFF	ON	Landline
	ON	OFF	GSM
	ON	ON	GSM

*E55 GSM edition only

[3] & [4] Future use

GSM No Service Trouble Feedback		
[5]	[6]	
[5] & [6]	OFF	Disabled
	ON	When disarmed: Trouble only When armed: Trouble only
	OFF	When disarmed: Trouble only When armed: Audible alarm
	ON	Silent alarm becomes audible alarm

[7] Future use

[8] GSM RF jamming supervision

☐ OFF Disabled
 ☐ ON Enabled

PCS100 (GSM) Settings

Section	Data	Description
[855]	___/___/___	(000 to 255) x 2 seconds GSM no service timer (default 016)
[856]	___/___/___	(000 to 255) SMS language (default 000)

Table 5: SMS Language ID

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

Communication Report Codes

NOTE: GSM communication report code sections [966] and [967] also apply to GPRS communication

[966] Clear Communication Report Codes

Option

[6] Clear report code for GSM lost communication with panel*

☐ OFF Disabled
 ☐ ON Enabled

* Ensure all other options are deselected. Press [ENTER] to reset the respective set of report codes to default before exiting the section.

[967] Reset Communication Report Codes

Option

[6] Reset report code for GSM lost communication with panel*

☐ OFF Disabled
 ☐ ON Enabled

* Ensure all other options are deselected. Press [ENTER] to reset the respective set of report codes to default before exiting the section.

Communication Report Codes

[879]*	___/___	PCS100 RF jam	[884]*	___/___	Report code for GSM lost communication with panel
	___/___	PCS100 no service		___/___	N/A
	___/___	PCS100 module supervision lost		___/___	N/A
	___/___	Receiver fail to communicate (GPRS)		___/___	N/A

Communication Restore Report Codes

[881]*	___/___	PCS100 RF jam
	___/___	PCS100 no service
	___/___	PCS100 module supervision lost
	___/___	Receiver fail to communicate (GPRS)

* This section also applies to network communication programming.

Network Communication (GPRS / IP)

Systems that report using the PCS100 (GPRS edition) or the IP100 can be programmed for TCP/IP communication using the following sections:

IP100 / PCS100 (GPRS) Options

[806] IP/GPRS Options

Option

IP/GPRS No Service Trouble Feedback		
[5]	[6]	
OFF	OFF	Disabled
OFF	ON	When disarmed: Trouble only When armed: Trouble only
ON	OFF	When disarmed: Trouble only When armed: Audible alarm
ON	ON	Silent alarm becomes audible alarm

[7]	Use dialer reporting	<input type="checkbox"/> OFF	<input type="checkbox"/> ON
[8]	Enable IP/GPRS reporting	<input type="checkbox"/> As IP/GPRS reporting backup	<input type="checkbox"/> In addition to IP/GPRS reporting
		<input type="checkbox"/> Disabled	<input type="checkbox"/> Enabled

IP Account Numbers

[918]	___/___/___/___	IP ACCOUNT PARTITION 1 (E.G. 1234)
[919]	___/___/___/___	IP ACCOUNT PARTITION 2 (E.G. 1234)

IP Receiver 1 Configuration

[929]	___/___/___ . ___/___/___ . ___/___/___ . ___/___/___	IP ADDRESS WAN1 (E.G. 100.100.100.100) NOTE: FOR 1 OR 2 DIGIT NUMBERS, ADD "0"S BEFORE THE FIRST DIGIT
[930]	___/___/___/___	IP PORT WAN1 (E.G. 10000)
[931]	___/___/___ . ___/___/___ . ___/___/___ . ___/___/___	IP ADDRESS WAN2
[932]	___/___/___/___	IP PORT WAN2
[933]	___/___/___/___/___/___/___/___/___/___/___/___/___/___/___/___	IP PASSWORD (E.G. 123456)
[934]	___/___	IP PROFILE (E.G. 01)
[935]	IP RECEIVER STATUS VIEW STATUS / TO REGISTER, PRESS [ARM] (see Table 6 on page 19)	

IP Receiver 2 Configuration

- [936] ____/____/____ . ____/____/____ . ____/____/____ . ____/____/____
IP ADDRESS WAN1 (E.G. 100.100.100.100)
- [937] ____/____/____/____/____
IP PORT WAN1 (E.G. 10000)
- [938] ____/____/____ . ____/____/____ . ____/____/____ . ____/____/____
IP ADDRESS WAN2
- [939] ____/____/____/____/____
IP PORT WAN2
- [940] ____/____/____/____/____/____/____/____/____/____/____/____/____/____/____/____
IP PASSWORD (E.G. 123456)
- [941] ____/____
IP PROFILE (E.G. 01)
- [942] **IP RECEIVER STATUS**
VIEW STATUS / TO REGISTER, PRESS [ARM] (see Table 6 on page 19)

IP Receiver Backup Configuration

- [943] ____/____/____ . ____/____/____ . ____/____/____ . ____/____/____
IP ADDRESS WAN1 (E.G. 100.100.100.100)
- [944] ____/____/____/____/____
IP PORT WAN1 (E.G. 10000)
- [945] ____/____/____ . ____/____/____ . ____/____/____ . ____/____/____
IP ADDRESS WAN2
- [946] ____/____/____/____/____
IP PORT WAN2
- [947] ____/____/____/____/____/____/____/____/____/____/____/____/____/____/____/____
IP PASSWORD (E.G. 123456)
- [948] ____/____
IP PROFILE (E.G. 01)
- [949] **IP RECEIVER STATUS**
VIEW STATUS / TO REGISTER, PRESS [ARM] (see Table 6 on page 19)

Table 6: IP/GPRS Registration Status

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

[780]	____/____/____/____/____/____/____/____/____/____/____/____
	SMS SITE NAME
[920]	____/____/____/____/____
	PORT (DEFAULT = 10000)
[921]*	____/____/____/____/____/____/____/____/____/____/____/____/____/____/____
	ACCESS POINT NAME (APN) PART 1 (E.G. INTERNET.COM)
[922]*	____/____/____/____/____/____/____/____/____/____/____/____/____/____/____
	ACCESS POINT NAME (APN) PART 2
[923]*	____/____/____/____/____/____/____/____/____/____/____/____/____/____/____
	USER NAME PART 1
[924]*	____/____/____/____/____/____/____/____/____/____/____/____/____/____/____
	USER NAME PART 2
[925]*	____/____/____/____/____/____/____/____/____/____/____/____/____/____/____
	PASSWORD PART 1
[926]*	____/____/____/____/____/____/____/____/____/____/____/____/____/____/____
	PASSWORD PART 2
[927]*	____/____/____/____/____/____/____/____/____/____/____/____/____/____/____
	INSTALLER SOFTWARE PASSWORD (WINLOAD) (DEFAULT = ADMIN)



[879]*	___/___	PCS100 RF jam	[880]	___/___	N/A
	___/___	PCS100 no service		___/___	IP100 no service
	___/___	PCS100 module supervision lost		___/___	IP100 supervision lost
	___/___	Receiver fail to communicate (GPRS)		___/___	IP receiver fail to communicate
[884]*	___/___	Report code for PCS100 lost communication with panel			
	___/___	N/A			
	___/___	N/A			
	___/___	N/A			

[881]*	___/___	PCS100 RF jam	[882]	___/___	N/A
	___/___	PCS100 no service		___/___	IP100 no service
	___/___	PCS100 module supervision lost		___/___	IP100 supervision lost
	___/___	Receiver fail to communicate (GPRS)		___/___	IP receiver fail to communicate

Programming Guide

Programmable Output Activation/Deactivation Events

Section		Event Group #	Sub-Group #	Partition # (99 for any partitions)	Default
[220]	PGM 1: Activation Event	(___/___)	(___/___)	(___/___)	00/00/00
[221]	Deactivation Event	(___/___)	(___/___)	(___/___)	00/00/00
[222]	PGM 2: Activation Event	(___/___)	(___/___)	(___/___)	00/00/00
[223]	Deactivation Event	(___/___)	(___/___)	(___/___)	00/00/00
[224]	PGM 3: Activation Event	(___/___)	(___/___)	(___/___)	00/00/00
[225]	Deactivation Event	(___/___)	(___/___)	(___/___)	00/00/00
[230]	PGM 6: Activation Event	(___/___)	(___/___)	(___/___)	00/00/00
[231]	Deactivation Event	(___/___)	(___/___)	(___/___)	00/00/00
[232]	PGM 7: Activation Event	(___/___)	(___/___)	(___/___)	00/00/00
[233]	Deactivation Event	(___/___)	(___/___)	(___/___)	00/00/00
[234]	PGM 8: Activation Event	(___/___)	(___/___)	(___/___)	00/00/00
[235]	Deactivation Event	(___/___)	(___/___)	(___/___)	00/00/00
[236]	PGM 9: Activation Event	(___/___)	(___/___)	(___/___)	00/00/00
[237]	Deactivation Event	(___/___)	(___/___)	(___/___)	00/00/00
[238]	PGM 10: Activation Event	(___/___)	(___/___)	(___/___)	00/00/00
[239]	Deactivation Event	(___/___)	(___/___)	(___/___)	00/00/00
[240]	PGM 11: Activation Event	(___/___)	(___/___)	(___/___)	00/00/00
[241]	Deactivation Event	(___/___)	(___/___)	(___/___)	00/00/00
[242]	PGM 12: Activation Event	(___/___)	(___/___)	(___/___)	00/00/00
[243]	Deactivation Event	(___/___)	(___/___)	(___/___)	00/00/00

NOTE: PGM 1 (for E55/E65) PGM 2 and 3 (for E65 only)

PGMs 6 to 8 are only available when using an ZX8 or ZX8SP Hardwired Zone Expansion module.

PGMs 9 to 12 are only available when using a PGM4 4-PGM Expansion module.

If a PGM Delay is programmed, the deactivation event can be used as a second activation event (see sections [281] to [292] on page 25).

Event Description

Event Group #	Sub-group #
00 = Zone OK	01 to 32 = Zone number
01 = Zone open	99 = Any zone number
02 = Partition status	00 to 01= N/A 02 = Silent alarm 03 = Buzzer alarm 04 = Steady alarm 05 = Pulsed alarm 06 = Strobe 07 = Alarm stopped 08 = Squawk ON (Partition 1 only) 09 = Squawk OFF (Partition 1 only) 10 = Ground start (Partition 1 only) 11 = Disarm partition 12 = Arm partition 13 = Entry delay started 14 = Exit delay started 15 = Pre-alarm delay 99 = Any partition status event
03 = Bell status (Partition 1 only)	00 = Bell OFF 01 = Bell ON 02 = Bell squawk arm 03 = Bell squawk disarm 99 = Any bell status event

Event Group #	Sub-group #
06 = Non-reportable event	00 = Telephone line trouble 01 = [ENTER] / [CLEAR] / [⏻] key was pressed (Partition 1 only) 02 = N/A 03 = Arm in stay mode 04 = Arm in sleep mode 05 = Arm in force mode 06 = Full arm when armed in stay mode 07 = PC fail to communicate (Partition 1 only) 08 = Utility Key 1 pressed (keys [1] and [2]) (Partition 1 only) 09 = Utility Key 2 pressed (keys [4] and [5]) (Partition 1 only) 10 = Utility Key 3 pressed (keys [7] and [8]) (Partition 1 only) 11 = Utility Key 4 pressed (keys [2] and [3]) (Partition 1 only) 12 = Utility Key 5 pressed (keys [5] and [6]) (Partition 1 only) 13 = Utility Key 6 pressed (keys [8] and [9]) (Partition 1 only) 14 = Tamper generated alarm 15 = Supervision loss generated alarm 16 = N/A 17 = N/A 18 = N/A 19 = N/A 20 = Full arm when armed in sleep mode 21 = Firmware upgrade (Partition 1 only) (non-PGM event) 22 = No SIM card on GSM module 23 = StayD mode activated 24 = StayD mode deactivated 25 = IP Registration Status 26 = GPRS Registration Status 99 = Any non-reportable event
14 = Bypass programming	01 to 32 = User number
15 = User code activated output (Partition 1 only)	99 = Any user number
16 = N/A	01 to 32 = Zone number
17 = Delay zone alarm transmission	99 = Any zone number
18 to 23 = N/A	
24 = Fire Delay started	01 to 32 = Zone number
	99 = Any zone number
25 = N/A	
26 = Software Access (VDMP3, IP100, WinLoad)	00 = Non-valid source ID 01 = WinLoad direct 02 = WinLoad through IP module 03 = WinLoad through GSM module 04 = WinLoad through modem 09 = IP100 direct 10 = VDMP3 direct 11 = Voice through GSM module 12 = Remote access 13 = SMS through GSM module 99 = Any software access
27 = Bus module event	00 = A bus module was added 01 = A bus module was removed 99 = Any Bus module event
28 = StayD pass acknowledged	01 to 32 = Zone number
	99 = Any zone number
29 = Arming with user	01 to 32 = User number
	99 = Any user number
30 = Special arming	00 = Auto-arming (on time/no movement) 01 = Late to close 02 = No movement arming 03 = Partial arming 04 = Quick arming 05 = Arming through WinLoad 06 = Arming with keyswitch 99 = Any special arming

Event Group #	Sub-group #
31 = Disarming with user 32 = Disarming after alarm with user 33 = Alarm cancelled with user	01 to 32 = User number 99 = Any user number
34 = Special disarming	00 = Auto-arm cancelled (on time/no movement) 01 = Disarming through WinLoad 02 = Disarming through WinLoad after alarm 03 = Alarm cancelled through WinLoad 04 = N/A 05 = Disarm with keyswitch 06 = Disarm with keyswitch after an alarm 07 = Alarm cancelled with keyswitch 99 = Any special disarming
35 = Zone bypassed 36 = Zone in alarm 37 = Fire alarm 38 = Zone alarm restore 39 = Fire alarm restore	01 to 32 = Zone number 99 = Any zone number
40 = Special alarm	00 = Panic non-medical emergency 01 = Panic medical (this panic alarm is not UL approved) 02 = Panic fire 03 = Recent closing 04 = Global shutdown 05 = Duress alarm 06 = Keypad lockout (Partition 1 only) 99 = Any special alarm event
41 = Zone shutdown 42 = Zone tampered 43 = Zone tamper restore	01 to 32 = Zone number 99 = Any zone number
44 = New trouble (Partition 1 only except sub-group 07 = both partitions)	00 = N/A 01 = AC failure 02 = Battery failure 03 = Auxiliary current overload 04 = Bell current overload 05 = Bell disconnected 06 = Clock loss 07 = Fire loop trouble 08 = Fail to communicate to monitoring station telephone #1 09 = Fail to communicate to monitoring station telephone #2 10 = Fail to communicate to pager report 11 = Fail to communicate to voice report 13 = GSM RF jamming 14 = GSM no service 15 = GSM supervision lost 16 = Fail To Communicate IP Receiver 1 (GPRS) 17 = Fail To Communicate IP Receiver 2 (GPRS) 18 = IP Module No Service 19 = IP Module Supervision Loss 20 = Fail To Communicate IP Receiver 1 (IP) 21 = Fail To Communicate IP Receiver 2 (IP) 99 = Any new trouble event

Event Group #	Sub-group #
45 = Trouble restored	00 = Telephone line restored 01 = AC failure restore 02 = Battery failure restore 03 = Auxiliary current overload restore 04 = Bell current overload restore 05 = Bell disconnected restore 06 = Clock loss restore 07 = Fire loop trouble restore 08 = FTC central 1 restored 09 = FTC central 2 restored 10 = FTC pager restored 11 = FTC voice restored 13 = GSM jamming restored 14 = GSM no service restore 15 = GSM supervision lost restore 16 = Fail To Communicate restore IP Receiver 1 (GPRS) 17 = Fail To Communicate restore IP Receiver 2 (GPRS) 18 = IP Module No Service restore 19 = IP Module Supervision loss restore 20 = Fail To Communicate restore IP Receiver 1 (IP) 21 = Fail To Communicate restore IP Receiver 2 (IP) 99 = Any trouble restored event
46 = Bus / EBus module new trouble (Partition 1 only)	00 = Bus / EBus module communication fault 01 = Tamper trouble 02 = Power fail 03 = Battery failure 99 = Any bus module new trouble event
47 = Bus / EBus module trouble restored (Partition 1 only)	00 = Bus / EBus module communication fault restore 01 = Tamper trouble restore 02 = Power fail 03 = Battery failure 99 = Any bus module trouble restored event
48 = Special (Partition 1 only)	00 = System power up 01 = Reporting test 02 = Software log on 03 = Software log off 04 = Installer in programming mode 05 = Installer exited programming mode 06 = Maintenance in programming mode 07 = Maintenance exited programming mode 08 = Closing delinquency delay elapsed 99 = Any special event
49 to 56 = N/A	
58 = Zone forced	
59 = Zone included	01 to 32 = Zone number 99 = Any zone number
64 = System Status	00 = Follow Arm LED status*: <ol style="list-style-type: none"> PGM pulse fast in alarm PGM pulse fast in exit delay below 10 sec. PGM pulse slow in exit delay over 10 sec. PGM steady ON if armed PGM OFF if disarmed <p>* On-board PGM only: This event can be assigned to any partition. If assigned to both partitions, the PGM event will follow the priority of the list above, with #1 being the highest priority.</p>

Programmable Output Options

Option	PGM 1 [261]		PGM 2 [262]		PGM 3 [263]		PGM 4-5 [264]-[265]
	OFF	ON	OFF	ON	OFF	ON	
[1] PGM Base Time Off=Sec, On=Min	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	future use
[2] PGM State Off=N.O., On=N.C.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
[3] N/A	N/A	N/A	N/A	N/A	N/A	N/A	
[4] PGM Activation Mode Off=Steady, On=Pulse	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
[5]* PGM Pulse once every 30 seconds if armed*	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
[6]* PGM Pulse on any alarm*	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
[7] PGM Pulse on any alarm - Off= Partition 1, On= Partition 2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
[8] Voltage Output (E65 PGMs only) Off= Negative Trigger (0V) On= Positive Trigger (12V)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Option	ZX8 +1		ZX8 +9		ZX8 +17		PGM4							
	PGM 6 [266]		PGM 7 [267]		PGM 8 [268]		PGM 9 [269]		PGM 10 [270]		PGM 11 [271]		PGM 12 [272]	
	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON
[1] PGM Base Time Off=Sec, On=Min	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[2] PGM State Off=N.O., On=N.C.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[3] N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
[4] PGM Activation Mode Off=Steady, On=Pulse	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[5]* PGM Pulse once every 30 seconds if armed*	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[6]* PGM Pulse on any alarm*	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[7] PGM Pulse on any alarm - Off= Partition 1, On= Partition 2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[8] N/A	-	-	-	-	-	-	-	-	-	-	-	-	-	-

* If options 5 or 6 are enabled, The following Programmable Output Activation/Deactivation Events do not apply: [220], [230], [232], and [234].

NOTE: PGM 1 (E55/E65) PGMs 2 and 3 (E65 only)

PGMs 6 to 8 are only available when using an ZX8 or ZX8SP Hardwired Zone Expansion module.

PGMs 9 to 12 are only available when using a PGM4 4-PGM Expansion module.

PGM cannot exceed 150mA (current limit).

Programmable Output Delays & Recognition

Section	Data	Default = 005
[281] PGM 1: (E55/E65 onboard)	___/___/___	(000 to 255 x 1 sec./mins.)
[282] PGM 2: (E65 onboard)	___/___/___	(000 to 255 x 1 sec./mins.)
[283] PGM 3: (E65 onboard)	___/___/___	(000 to 255 x 1 sec./mins.)
[286] PGM 6: (ZX8 ID =+1)	___/___/___	(000 to 255 x 1 sec./mins.)
[287] PGM 7: (ZX8 ID =+9)	___/___/___	(000 to 255 x 1 sec./mins.)
[288] PGM 8: (ZX8 ID =+17)	___/___/___	(000 to 255 x 1 sec./mins.)
[289] PGM 9: (PGM4 output 1)	___/___/___	(000 to 255 x 1 sec./mins.)
[290] PGM 10: (PGM4 output 2)	___/___/___	(000 to 255 x 1 sec./mins.)
[291] PGM 11: (PGM4 output 3)	___/___/___	(000 to 255 x 1 sec./mins.)
[292] PGM 12: (PGM4 output 4)	___/___/___	(000 to 255 x 1 sec./mins.)

System Report Codes

Entering Report Codes

Ademco Slow, Silent Knight, SESCOA, and Ademco Express Formats:
Enter the desired 2-digit hex value (00-FF).

Ademco “Programmable” Format:

Enter the desired 2-digit hex values from the “Ademco Report Code List - Programmable” (see page 28). Also note that entering FF will set the report code to the “Automatic Report Code List” (see page 30).

Ademco “All Codes” Format:

The control panel automatically generates report codes from the “Ademco Report Code List - All Codes” (see page 28). Refer to Decimal and Hexadecimal Values on page 3.

Clear System Report Codes

[966] Clear Report Codes

Option	OFF	ON
[3] Clear arm/disarm/alarm report codes*	<input type="checkbox"/> Disabled	<input type="checkbox"/> Enabled
[4] Clear trouble report codes*	<input type="checkbox"/> Disabled	<input type="checkbox"/> Enabled
[5] Clear system special report codes*	<input type="checkbox"/> Disabled	<input type="checkbox"/> Enabled

* Ensure all other options are deselected. Press **[ENTER]** to reset the respective set of report codes to default before exiting the section.

Reset System Report Codes

[967] Reset Report Codes

Option	OFF	ON
[3] Reset arm/disarm/alarm report codes to default*	<input type="checkbox"/> Disabled	<input type="checkbox"/> Enabled
[4] Reset trouble report codes to default*	<input type="checkbox"/> Disabled	<input type="checkbox"/> Enabled
[5] Reset system special report codes to default*	<input type="checkbox"/> Disabled	<input type="checkbox"/> Enabled

* Enable all options you want to reset to default. Press **[ENTER]** to reset the respective set of report codes to default before exiting the section.

Special Arming Report Codes (Default = FF)

Section	Data	Description	Section	Data	Description
[860]	____/____	Auto-arming	[861]	____/____	Quick arming
	____/____	Late to close		____/____	Arming via PC
	____/____	No movement		____/____	Arming with keyswitch
	____/____	Partial arming		____/____	N/A

Special Disarming Report Codes (Default = FF)

Section	Data	Description
[862]	____/____	Cancel auto-arm
	____/____	Disarming via PC
	____/____	Cancel alarm with user or WinLoad
	____/____	Cancel parademic

Special Alarm Report Codes (Default = FF)

Section	Data	Description	Section	Data	Description
[863]	____/____	Emergency panic	[864]	____/____	Zone shutdown

Section	Data	Description	Section	Data	Description
	____/____	Auxiliary panic		____/____	Duress
	____/____	Fire panic		____/____	Keypad lockout
	____/____	Recent closing		____/____	N/A

System Trouble Report Codes (Default = FF)

Section	Data	Description	Section	Data	Description
[865]	____/____	N/A	[868]	____/____	Module power fail
	____/____	AC failure		____/____	Module low/no battery
	____/____	Battery failure		____/____	N/A
	____/____	Auxiliary supply		____/____	N/A
[866]	____/____	Bell output overload			
	____/____	Bell output disconnect			
	____/____	Timer loss			
	____/____	N/A			
[867]	____/____	Fail to communicate			
	____/____	N/A			
	____/____	Module lost			
	____/____	Module tamper			

System Trouble Restore Report Codes (Default = FF)

Section	Data	Description	Section	Data	Description
[870]	____/____	TLM	[873]	____/____	Module power fail
	____/____	AC failure		____/____	N/A
	____/____	Battery failure		____/____	N/A
	____/____	Auxiliary supply		____/____	N/A
[871]	____/____	Bell output overload			
	____/____	Bell output disconnect			
	____/____	Timer loss			
	____/____	N/A			
[872]	____/____	Fail to communicate			
	____/____	N/A			
	____/____	Module lost			
	____/____	Module tamper			

System Special Report Codes (Default = FF)

Section	Data	Description	Section	Data	Description
[875]	____/____	Cold start	[876]	____/____	Installer in
	____/____	Test report		____/____	Installer out
	____/____	N/A		____/____	Closing Delinquency
	____/____	WinLoad out		____/____	N/A
[878]	____/____	Disarm with keyswitch			
	____/____	Disarm with keyswitch after alarm			
	____/____	Alarm cancelled with key-switch			
	____/____	N/A			

NOTE: For reporting code format instructions, see page 26.

NOTE: Refer to Decimal and Hexadecimal Values on page 3.

Ademco Contact ID Report Codes

CID#	Reporting Code	Programming Value
Medical Alarms - 100		
100	Medical alarm	01
101	Pendant transmitter	02
102	Fail to report in	03
Fire Alarms - 110		
110	Fire alarm	04
111	Smoke	05
112	Combustion	06
113	Water flow	07
114	Heat	08
115	Pull station	09
116	Duct	0A
117	Flame	0B
118	Near alarm	0C
Panic Alarms - 120		
120	Panic Alarm	0D
121	Duress	0E
122	Silent	0F
123	Audible	10
124	Duress - Access grated	11
125	Duress - Egress granted	12
Burglar Alarms - 130		
130	Burglary	13
131	Perimeter	14
132	Interior	15
133	24-hour	16
134	Entry/Exit	17
135	Day/Night	18
136	Outdoor	19
137	Tamper	1A
138	Near alarm	1B
139	Intrusion verified	1C
General Alarms - 140		
140	General alarm	1D
141	Polling loop open	1E
142	Polling loop short	1F
143	Expansion module failure	20
144	Sensor tamper	21
145	Expansion module tamper	22
146	Silent burglary	23
147	Sensor supervision failure	24
24-hour Non-burglary - 150 and 160		
150	24-hour non-burglary	25

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

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

CID#	Reporting Code	Programming Value
387	Intrusion detector Hi sensitivity	75
388	Intrusion detector Low sensitivity	76
389	Sensor self-test failure	77
391	Sensor watch trouble	78
392	Drift compensation error	79
393	Maintenance alert	7A
Open/Close - 400		
400	Open/Close	7B
401	Open/Close by user	7C
402	Group open/close	7D
403	Automatic open/close	7E
406	Cancel	7F
407	Remote arm/disarm	80
408	Quick arm	81
409	Keyswitch open/close	82
Remote Access - 410		
411	Call back request made	83
412	Success - download access	84
413	Unsuccessful access	85
414	System shutdown	86
415	Dialer shutdown	87
416	Successful upload	88
Access Control - 420 and 430		
421	Access denied	89
422	Access report by user	8A
423	Forced access	8B
424	Egress denied	8C
425	Egress granted	8D
426	Access door propped open	8E
427	Access point door status monitor trouble	8F
428	Access point request to exit	90
429	Access program mode entry	91
430	Access program mode exit	92
431	Access threat level change	93
432	Access relay/trigger fail	94
433	Access RTE shunt	95
434	Access DSM shunt	96
Arming - 440 and 450		
441	Armed Stay	97
442	Keyswitch armed Stay	98
450	Exception open/close	99

CID#	Reporting Code	Programming Value
451	Early open/close	9A
452	Late open/close	9B
453	Failed to open	9C
454	Failed to close	9D
455	Auto-arm failed	9E
456	Partial arm	9F
457	Exit error (user)	A0
458	User on premises	A1
459	Recent close	A2
System - 460		
461	Wrong code entry	A3
462	Legal code entry	A4
463	Re-arm after alarm	A5
464	Auto-arm time extended	A6
465	Panic alarm reset	A7
466	Service ON/OFF premises	A8
Sounder Relay Disabled - 520		
520	Sounder/Relay disabled	A9
521	Bell 1 disabled	AA
522	Bell 2 disabled	AB
523	Alarm relay disabled	AC
524	Trouble relay disabled	AD
525	Reversing relay disabled	AE
526	Notification appliance chk. #3 disabled	AF
527	Notification appliance chk. #4 disabled	B0
Modules - 530		
531	Module added	B1
532	Module removed	B2
Communication Disables - 550 and 560		
551	Dialer disabled	B3
552	Radio transmitter disabled	B4
Bypasses - 570		
570	Zone bypass	B5
571	Fire bypass	B6
572	24Hr. zone bypass	B7
573	Burglary bypass	B8
574	Group bypass	B9
575	Swinger bypass	BA
576	Access zone shunt	BB
577	Access point bypass	BC
Test/Misc. - 600		
601	Manual trigger test	BD
602	Periodic test report	BE

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

Automatic Report Code List

System Event	Default Contact ID Report Code
Arming with User Code (##)	3 4A1 - Close by user
Auto arming	3 4A3 - Automatic close
Late to close	3 452 - Late to close
No movement	3 452 - Late to close
Partial arming	1 456 - Group bypass
Quick arming	3 4A8 - Quick arm
Arm with PC software	3 4A7 - Remote arm/disarm
Keyswitch arming	3 4A9 - Keyswitch arming
Disarm with User Code (##)	1 4A1 - Open by user
Disarm after alarm* with User Code (##)	1 4A1 - Open by user
Cancel alarm** with User Code (##)	1 4A6 - Cancel by user
Auto-arming cancellation	1 464 - Deferred open/close
Disarm with PC software	1 4A7 - Remote arm/disarm
Disarm after an alarm with PC software	1 4A7 - Remote arm/disarm
Cancel alarm with PC software	1 4A6 - Cancel by user
Cancel paramedic alarm	1 4A6 - Cancel by user
Keyswitch disarm	1 4A9 - Keyswitch disarm
Keyswitch disarm after alarm	1 4A1 - Keyswitch disarm after alarm
Keyswitch cancel alarm	1 4A6 - Keyswitch cancel alarm
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	3 459 - Open/Close
Global zone shutdown	1 575 - Group bypass
Duress alarm	1 121 - Duress
Keypad lockout	1 421 - Access denied
Zone shutdown (##)	1 57A - Zone bypass
Zone tampered (##)	1 144 - Sensor tamper
Zone tamper restore (##)	3 144 - Sensor tamper restore
TLM Trouble	1 351 - Telco 1 fault
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
Bell absent	1 321 - Bell 1
Clock lost	1 626 - Time/date inaccurate
Fire loop trouble	1 373 - Fire trouble
Communication fail	1 354 - Communication fail
RF jamming	1 344 - RF receiver jam detection

* An armed system is or was in alarm and was disarmed by a user.

** A disarmed system is or was in alarm (e.g. 24Hr. zone) and was disarmed by a user.

System Event	Default Contact ID Report Code
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	3 625 - Time/date reset
Fire loop trouble restore	3 373 - Fire trouble restore
Fail to communicate with monitoring station	3 354 - Fail to communicate
RF jamming	3 344 - RF receiver jam detection
GSM/GPRS module RF interference	1 552 - Radio transmitter disabled
GSM/GPRS network failure	1 552 - Radio transmitter disabled
GSM/GPRS supervision lost	1 552 - Radio transmitter disabled
GSM/GPRS fail to communicate	1 354 - Communication fails
IP network failure	1 552 - Radio transmitter disabled
IP supervision lost	1 552 - Radio transmitter disabled
IP fail to communicate	1 354 - Communication fails
GSM/GPRS module Rf interference restore	3 552 - Radio transmitter restore
GSM/GPRS network restore	3 552 - Radio transmitter restore
GSM/GPRS supervision restore	3 552 - Radio transmitter restore
GSM/GPRS fail to communicate restore	3 354 - Communication restore
IP network restore	3 552 - Radio transmitter restore
IP supervision restore	3 552 - Radio transmitter restore
IP fail to communicate restore	3 354 - Communication restore
Combus fault	1 333 - Expansion module failure
Module tamper	1 341 - Expansion module tamper
Module AC fail	1 342 - AC failure on module
Module battery fail	1 338 - Battery failure on module
Bus fault restore	3 333 - Expansion module failure restore
Module tamper restore	3 341 - Expansion module tamper restore
Module AC fail restore	3 342 - AC restored on module
Module battery fail restore	3 338 - Battery failure on module
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
Maintenance in	1 627 - Program mode entry
Maintenance out	1 628 - Program mode exit
Closing delinquency	1 654 - System inactivity
Manual trigger test in	1 6A1 - Manual trigger test in
Manual trigger test out	3 6A1 - Manual trigger test out
Exit error	1 374 - Exit error
RF module low battery	1 384 - RF transmitter low battery
RF module battery restore	3 384 - RF transmitter battery restore
RF zone supervision lost	1 381 - Loss of supervision - RF
RF zone supervision restore	3 381 - Supervision restore - RF
RF module supervision lost	1 381 - Loss of supervision- RF
RF module supervision restore	3 381 - Supervision restore - RF
RF module tamper	1 145 - Expansion module tamper

System Event	Default Contact ID Report Code
RF module tamper restore	3 145 - Expansion module tamper restore
Paramedic alarm	1 1AA - Medical
Zone forced	1 57A - Zone forced
Zone included	3 57A - Zone included
24 Hour Holdup alarm	1 12A - Panic alarm
24 Hour Gas detected Gas alarm	1 151 - Gas detected
24 Hour Loss of heat Heat alarm	1 153 - Loss of heat
24 Hour Water leakage Water alarm	1 154 - Water leakage
24 Hour Refrigeration Freeze alarm	1 152 - Refrigeration
24 Hour Holdup restore	3 12A - Panic alarm restore
24 Hour Gas detected GAS restore	3 151 - Gas restore
24 Hour Loss of heat Heat restore	3 153 - Heat restore
24 Hour Water leakage Water restore	3 154 - Water restore
24 Hour Refrigeration Freeze restore	3 152 - Freeze restore

Installer Function Keys

To access the Installer Function keys, press:

[ENTER]+[INSTALLER CODE] + [MEM] = *Test Report*: Send the "Test Report" report code programmed in section **[875]** (page 27) to the monitoring station.

[ENTER]+[INSTALLER CODE] + [STAY] = *Cancel Communication*: Cancels all communication with the WinLoad software or with the monitoring station until the next reportable event.

[ENTER]+[INSTALLER CODE] + [SLEEP] = *Answer WinLoad Software*: Will force the console to answer an incoming call from the monitoring station that is using the WinLoad software.

[ENTER]+[INSTALLER CODE] + [BYP] = *Call WinLoad Software*: Will dial the PC telephone number programmed in section **[915]** (page 14) in order to initiate communication with a computer using the WinLoad software.

[ENTER]+[INSTALLER CODE] + [TBL] = *Installer Test Mode*: The installer test mode will allow you to perform walk tests where the siren will squawk to indicate opened zones. Press the **[TBL]** key again to exit.

Trouble Display

- Press the **[TBL]** key to view the Trouble Display. Please note that the keypad can be programmed to emit a beep every 5 seconds whenever a new trouble condition has occurred. Press the **[TBL]** key to stop the beeping.
- To view the sub-menu, press the corresponding key in the main menu.

Main Menu Trouble	Sub-Menu Trouble Menu
[2] Power trouble	[1] Low/No battery on the control panel [2] AC failure on control panel [3] Auxiliary overload on control panel
[3] Bell trouble	[1] Bell disconnect on control panel [2] Bell overload on control panel
[4] Communication trouble	[1] Telephone Line Monitoring on control panel [2] Fail to communicate on Monitoring Telephone 1 on control panel [3] Fail to communicate on Monitoring Telephone 2 on control panel [4] Fail to communicate on pager telephone on control panel [5] Fail to communicate on voice telephone on control panel [6] Fail to communicate with PC on control panel [7] Fail to communicate with IP receiver 1 or 2 (GPRS) (E65 panels only) [8] Fail to communicate with IP receiver 1 or 2 (IP) (E65 panels only) [9] GSM no service (GSM network failure) [10] IP Module No Service (network failure) (E65 panels only) [STAY] GSM RF jamming [OFF] IP Receiver Unregistered (IP/GPRS) (E65 panels only)
[5] Tamper and zone wiring failure	[1] to [32] Zones in tamper and zone wiring failure
[6] Module tamper trouble	[2] Keypad bus [3] ZX8 bus module [6] GSM bus module
[7] Fire loop trouble	[1] to [32] Zones in fire loop trouble
[8] Timer loss	
[0 (10)] or [10] Module supervision loss	[2] Keypad bus (Panel reset will not clear this trouble, clear it in section [955] on page 2.) [3] ZX8 bus module [7] PGM4 bus module [8] VDMP3 [9] PCS100 [10] IP100 (E65 panels only)
[16] Keypad fault (K32 only)	
[SLEEP] Keypad fault (K636 / K10V/H only)	

System Codes

[701] General System Options

Option	OFF	ON
[1] Access code length	<input type="checkbox"/> 6 digits	<input checked="" type="checkbox"/> 4 digits
[2] Lock master code	<input checked="" type="checkbox"/> Disabled	<input type="checkbox"/> Enabled

Section	Data	Description
[395]	___/___/___ (147 to lock, other to unlock)	Installer Code Lock (default 000)
[397]*	___/___/___/___/___/___	Installer Code (default = 000000)*
[398]	___/___/___/___/___/___	Maintenance Code (no default)
[399]*	___/___/___/___/___/___	System Master Code (default = 123456)*

*4 or 6 digits according to section [701] option [1]. The control panel automatically removes the last 2 digits of the user access code if the length is changed from 6 digits to 4 digits. However, if the user access code length is changed from 4 to 6 digits, the control panel copies the first 2 digits and uses them for digits 5 and 6.

Maintenance Code Limited Access Table			
The Maintenance Code cannot access the following sections:			
[395]	Installer code lock	[817]	Backup monitoring station telephone
[397]	Installer code	[910]	Panel ID
[398]	Maintenance code	[911]	PC password
[815]	Monitoring station telephone number 1	[970]	Download memory key into panel
[816]	Monitoring station telephone number 2	[975]	Upload panel into the memory key

User Code Options

User Options

- | | |
|------------------------|---|
| 1 - Partition 1 Access | 5 - Force Arming (Regular/Sleep/StayArming) |
| 2 - Partition 2 Access | 6 - Arm Only |
| 3 - Bypass Programming | 7 - PGM Activation Only |
| 4 - Stay/Sleep Arming | 8 - Duress |

 **When section [400] is accessed, the panel will copy the saved value of that section to all user options- [404] to [432].**

Section	Options	Section	Options
[400] Default Option	1 2 3 4 5 6 7 8	[417] User 17:	1 2 3 4 5 6 7 8
[401] System Master:	① ② ③ ④ ⑤ 6 7 8	[418] User 18:	1 2 3 4 5 6 7 8
[402] Master 1:	① 2 ③ ④ ⑤ 6 7 8	[419] User 19:	1 2 3 4 5 6 7 8
[403] Master 2:	1 ② ③ ④ ⑤ 6 7 8	[420] User 20:	1 2 3 4 5 6 7 8
[404] User 4:	1 2 3 4 5 6 7 8	[421] User 21:	1 2 3 4 5 6 7 8
[405] User 5:	1 2 3 4 5 6 7 8	[422] User 22:	1 2 3 4 5 6 7 8
[406] User 6:	1 2 3 4 5 6 7 8	[423] User 23:	1 2 3 4 5 6 7 8
[407] User 7:	1 2 3 4 5 6 7 8	[424] User 24:	1 2 3 4 5 6 7 8
[408] User 8:	1 2 3 4 5 6 7 8	[425] User 25:	1 2 3 4 5 6 7 8
[409] User 9:	1 2 3 4 5 6 7 8	[426] User 26:	1 2 3 4 5 6 7 8
[410] User 10:	1 2 3 4 5 6 7 8	[427] User 27:	1 2 3 4 5 6 7 8
[411] User 11:	1 2 3 4 5 6 7 8	[428] User 28:	1 2 3 4 5 6 7 8
[412] User 12:	1 2 3 4 5 6 7 8	[429] User 29:	1 2 3 4 5 6 7 8
[413] User 13:	1 2 3 4 5 6 7 8	[430] User 30:	1 2 3 4 5 6 7 8
[414] User 14:	1 2 3 4 5 6 7 8	[431] User 31:	1 2 3 4 5 6 7 8
[415] User 15:	1 2 3 4 5 6 7 8	[432] User 32:	1 2 3 4 5 6 7 8
[416] User 16:	1 2 3 4 5 6 7 8		

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

User Report Codes (Default = FF)

[966] Clear User Report Codes

Option

OFF

ON

[2]

Clear user report codes*

☐ Disabled

☐ Enabled

* Ensure all other options are deselected. Press [ENTER] to reset the respective set of report codes to default before exiting the section.

[967] Reset User Report Codes

Option

OFF

ON

[2]

Reset user report codes to default*

☐ Disabled

☐ Enabled

*Press [ENTER] to reset the respective set of report codes to default before exiting the section.

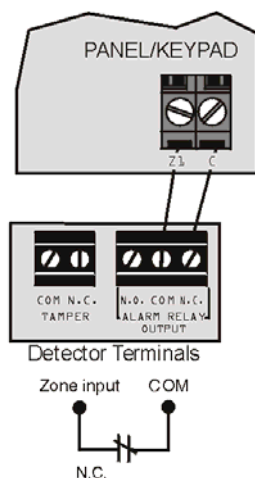
Section	Arming	Disarming/Cancel Alarm	Section	Arming	Disarming/Cancel Alarm
[471] S. Master:	___/___	___/___	[487] User 17:	___/___	___/___
[472] Master 1:	___/___	___/___	[488] User 18:	___/___	___/___
[473] Master 2:	___/___	___/___	[489] User 19:	___/___	___/___
[474] User 4:	___/___	___/___	[490]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

NOTE: For reporting code format instructions, see [Entering Report Codes on page 26](#).
Refer to [Decimal and Hexadecimal Values on page 3](#).

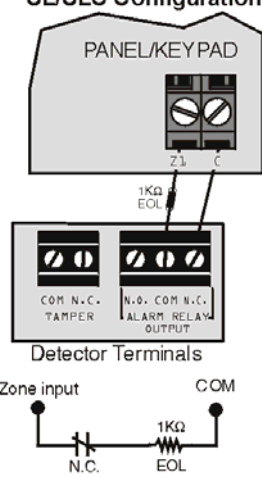
Hardware Connections

Single Zone Inputs

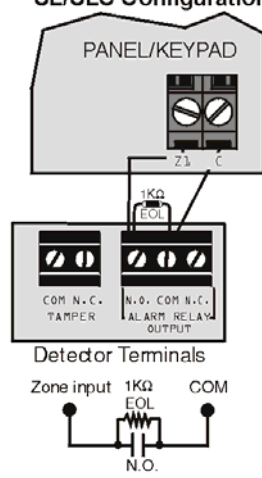
N.C. Contacts, No EOL



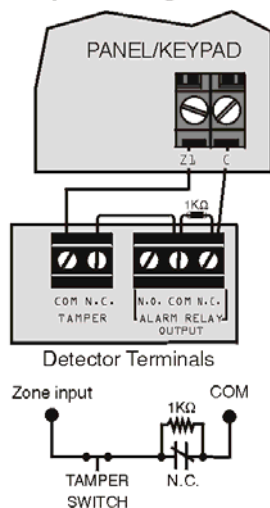
**N.C., With EOL
UL/ULC Configuration**



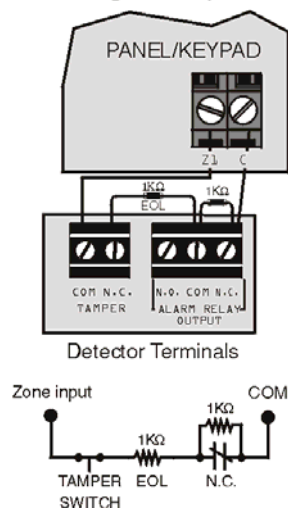
**N.O., With EOL
UL/ULC Configuration**



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



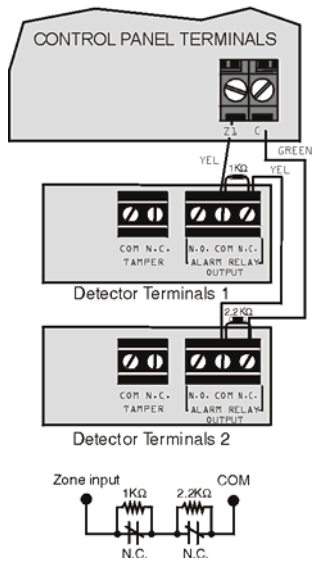
**N.C., With EOL, With Tamper &
Wire Fault Recognition (UL/ULC)**



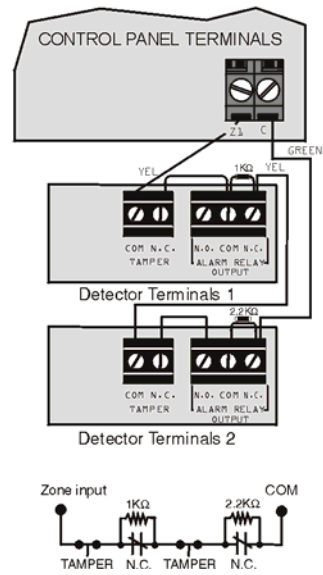
NOTE: Keyswitches are connected as standard zones and will follow ATZ options programmed in section [705] options [1] and [2] on page 8.

Advanced Technology Zone (ATZ) Connections

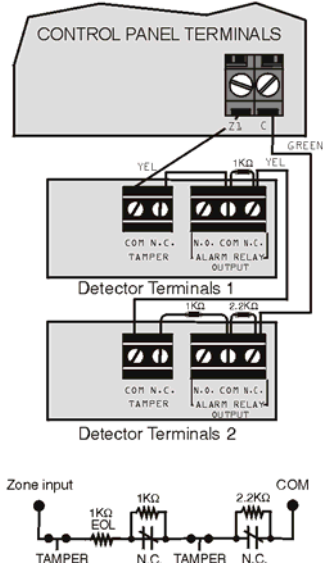
N.C. Contacts, No EOL



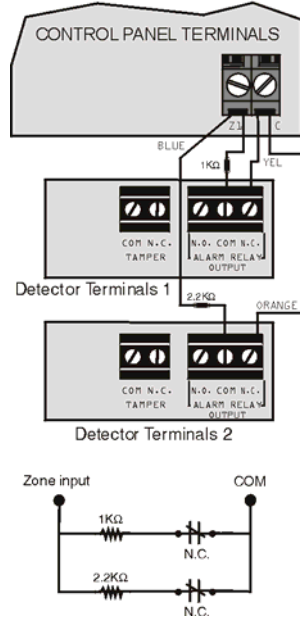
N.C. Contacts, No EOL, with Tamper Recognition



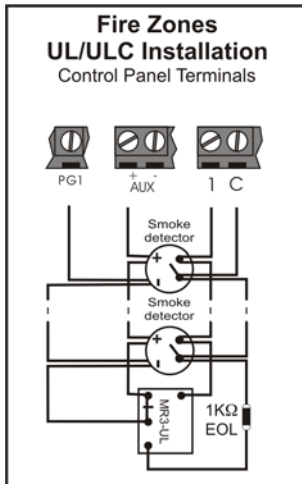
N.C. Contacts, with EOL, with Tamper and Wire Fault Recognition (UL/cUL)



Parallel Wiring



Connecting Fire Circuits

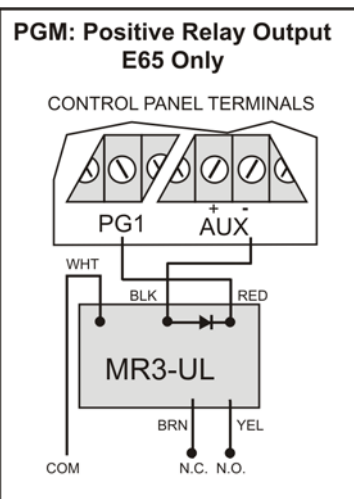
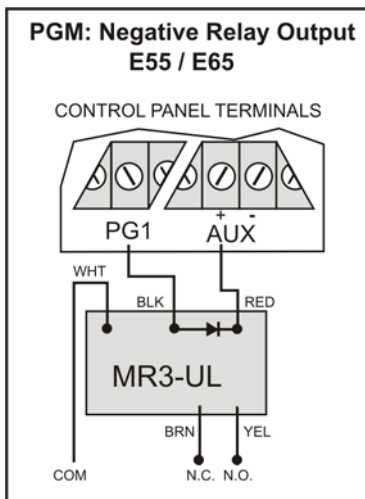


Single Fire Zone Connections Only

If the ATZ feature is enabled, do not use the extra input (i.e. in the above example, input 005 cannot be used as a zone).

NOTE: It is recommended that the smoke detectors be connected in a daisy chain configuration.

Alarm Relay and PGM Connections



PGM Power Source

AUX + terminal = E55 current consumption must not exceed 450mA
= E65 current consumption must not exceed 500mA

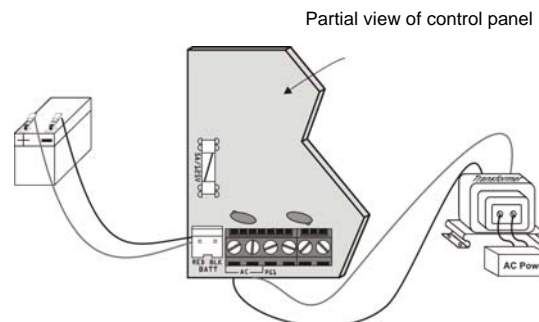
External power supply = PGM cannot exceed 100mA or exceed the power supply's current limit

NOTE: For PGM options, see page 25.

AC Power & Backup Battery Connections

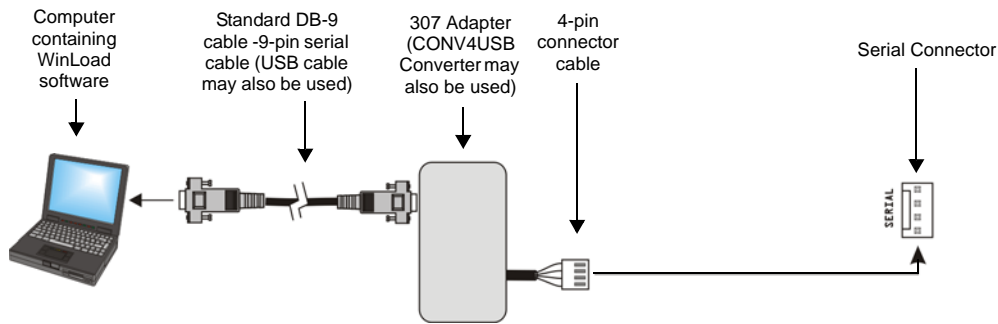
Transformer Requirements Table

Transformer:	16.5Vac transformer with minimum 20VA rating (40VA recommended), 50-60Hz
DC Power Supply rated at:	12Vdc, 4Ah/7Ah
Auxiliary Supply can provide a maximum of:	(E55) 450mA, fuseless shutdown at 650mA (E65) 500mA, fuseless shutdown at 700mA
Acceptable Battery Charge Current	1.1A



**Improper connection of the transformer may result damage to the system.
Disconnect battery before replacing the fuse.**

Connecting to WinLoad



Updating Firmware Using WinLoad

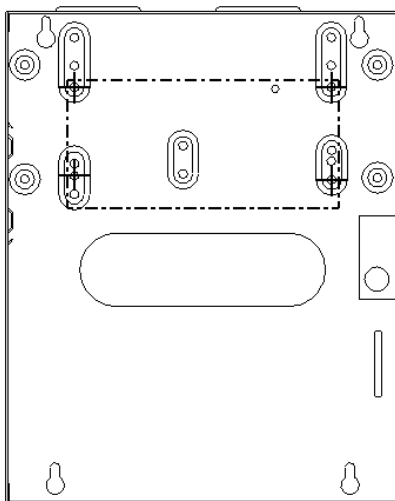
To update your system firmware:

1. Connect the product to your computer using a 307USB Direct Connect Interface or CONV3USB Converter.
2. Start WinLoad Installer Upload/Download Software.
3. Click the **In-field Programmer** button.
4. Verify the product information located in the In-Field Firmware Programmer window.
5. If the firmware programmer does not automatically detect your control panel, click the **Com port settings** button and select the correct Com port. Then click the **Refresh Product Info** button to connect with the panel.
6. To check for new updates, click the **Download Firmware from the web** button.
7. From the Select Firmware drop-down box, select the firmware version you wish to install.
or
If you have already downloaded the .pef file from paradox.com, click the [...] button and select the location of the .pef file.
8. Click the **Update product firmware** button.
9. When the download process finishes, the update is complete.

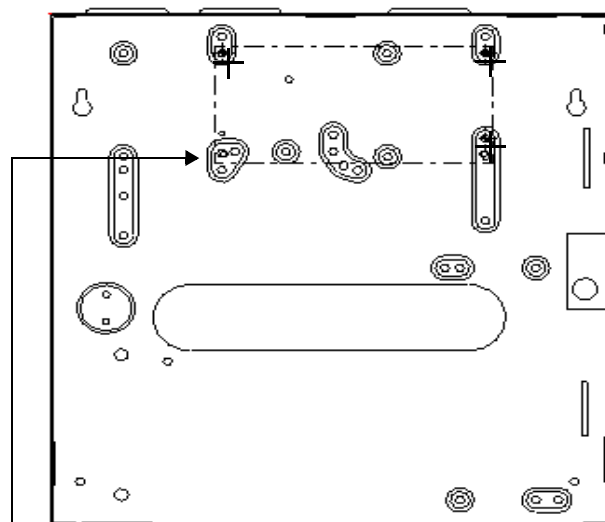
Metal Box Installation

The crosses and dotted line represent the mounting location. If you need specific dimensions, contact Paradox Distributor Support.

(8x10")



(11x11")



For the bottom left mounting hole, instead of a plastic standoff, use double-sided tape.

E55 PCB Layout

DIALER port used for GSM reporting using the **PCS100** GSM Communicator Module.

Refer to PGM Connections on page 38.

Refer to AC Power & Backup Battery Connections on page 38.

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

AUX Power
For AC power connection information, see AC Power & Backup Battery Connections on page 38.

DIALER and EBUS port used for voice reporting with the **VDMP3** plug-in voice module.

Paradox Memory Key (PMC-4, PMC5)

Status LED:

- Flash once every second = Normal
- Flashes ON 1 second and OFF 1 second = Any trouble
- Always ON = Panel is using phone line
- Fast flash 6 seconds after power up = Installer lock enabled

Used for connecting the **IP100** Internet Module. Also used for In-Field Firmware upgrade through a 307USB Direct Connect Interface. See Connecting to WinLoad on page 39 for details.

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

Disconnect telephone line before servicing.

AWG#14 single conductor solid copper wire

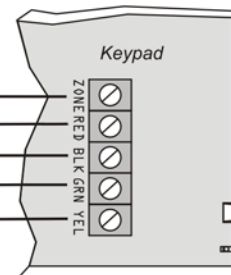
To metallic enclosure

Ground clamp

Cold water pipe grounding

Refer to Hardware Connections page 36.

Connect to any Common input.



For the keypad's zone configurations, refer to the **Installer Quick Menu**. If EOL is enabled: see section [706] option [2]. Also refer to Keypad Zone Connections on page 36.



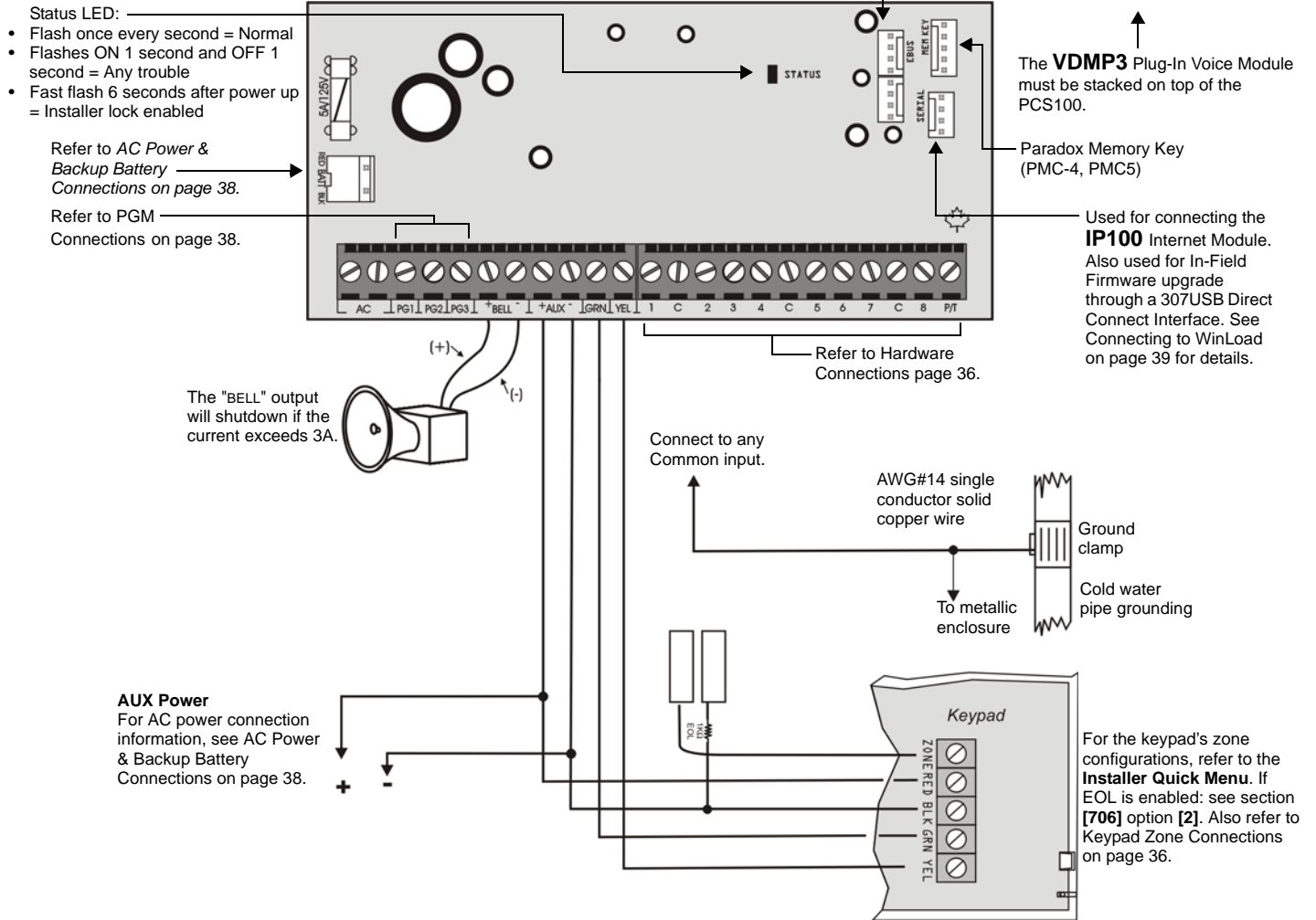
40VA transformer strongly recommended. Exceeding this limit will overload the panel power supply and lead to complete system shutdown.

This equipment must be installed and maintained by qualified service personnel only.
For UL and C-UL warnings, refer to the UL and C-UL Warnings section at the back of the E55 Reference & Installation Manual.

Max. number of keypads = 15 keypads
Max. distance of keypad from panel = 76m (250 feet)

Max. aux. current = 650 mA
Max. total run of wire = 230m (750 feet)

E65 PCB Layout



40VA transformer strongly recommended. Exceeding this limit will overload the panel power supply and lead to complete system shutdown.

This equipment must be installed and maintained by qualified service personnel only.
For UL and C-UL warnings, refer to the UL and C-UL Warnings section at the back of the E65 Reference & Installation Manual.

Max. number of keypads = 15 keypads



Max. distance of keypad from panel = 76m (250 feet)

Max. aux. current = 700 mA

Max. total run of wire = 230m (750 feet)


Installer Quick Menu

Zones




Step	Action	Details
1	 + [INSTALLER CODE]	 = flash. Programmed zones are lit (button or LED depending on keypad). [MAINTENANCE CODE] may also be used.
2	[ZONE NUMBER]	2 digits: 01 to 32
3	[ENROLL OR ERASE ZONE]	Wireless zone = open/close cover or press learn/tamper switch. Hardwired zone = Press [ENTER]. To erase a programmed zone, press [SLEEP] for 3 seconds.
4	[ZONE TYPE]	Refer to page 6 for the zone type (zone definition).
5	Assign Partition [1] and/or [2] + [ENTER]	Assign the zone to one or both partitions and press [ENTER]. By default, all zones are assigned to partition 1. Goes to next available zone.

Keypad Zone Number Assignment (Keypad




Programming)

Step	Action	Details
1	[ENTER] + [INSTALLER CODE]	[ARM] + [STAY] = flash. [MAINTENANCE CODE] may also be used.
2	Press and hold  (3sec)	[ARM] + [STAY] = on.
3	[ZONE NUMBER] + [ENTER]*	K32LED / K32I = 2 digits: 01 to 32 K10V/H / K636 = 1 digit: 1 to 0(10) (can only assign zones 1-10) * To erase a keypad zone number, press [CLEAR], then [ENTER].

Delays




Step	Action	Details
1	 + [INSTALLER CODE]	 = flash. [MAINTENANCE CODE] may also be used.
2		
3	[1] = Entry Delay 1 (default = 045 sec.) [2] = Entry Delay 2 (default = 045 sec.) [3] = Exit Delay (default = 060 sec.) [4] = Bell Cut-Off (default = 004 min.)	
4	[000] to [255]	Entry/Exit Delay = seconds / Bell Cut-Off = minutes

Time and Date




Step	Action	Details
1	 + [INSTALLER CODE]	 = flash. [MAINTENANCE CODE] may also be used.
2	 + [5]	
4	[HH:MM]*	Enter time.
5	[YYYY/MM/DD]	Enter date.

*Time must be entered in 24-hour format.




Walk Test Mode

Step	Action	Details
1	 + [INSTALLER CODE]	 = flash. [MAINTENANCE CODE] may also be used.
2		
3	[6]	Activates or deactivates Walk Test Mode.




Installer and Maintenance Codes

Step	Action	Details
1	 + [INSTALLER CODE]	 = flash.
2		
3	[7] = Installer Code [8] = Maintenance Code	
4	[CODE]*	Enter 4- or 6-digit code.* To erase a code, press the [SLEEP] key for 3 seconds.
5	[CONFIRM CODE]	Re-enter 4- or 6-digit code.




WinLoad

Step	Action	Details
1	 + [INSTALLER CODE]	 = flash.
2		
3	[9]	
4	[PHONE #] + [ENTER]*	Enter PC phone # (up to 32 digits) and press [ENTER]. * To erase WinLoad phone #, panel ID, and PC password, press the [SLEEP] key for 3 seconds.
5	[PANEL ID]	Enter 4-digit Panel ID
6	[PC PASSWORD]	Enter 4-digit PC Password




Monitoring Phone

Step	Action	Details
1	 + [INSTALLER CODE]	 = flash.
2		
3	[1]	
4	[PHONE #] + [ENTER]*	Enter monitoring station phone # (up to 32 digits) and press [ENTER]. * To erase monitoring phone #, reporting format, and account #s, press the [SLEEP] key for 3 seconds.
5	[PARTITION 1 ACCOUNT #]	
6	[1] = CID	
7	[PARTITION 2 ACCOUNT #]	




Communicator

Step	Action	Details
1	 + [INSTALLER CODE]	 = flash. [MAINTENANCE CODE] may also be used, however, it cannot modify the backup phone number.
2		
3	[2] = Backup Phone # [3] = Personal Phone #1 [4] = Personal Phone #2 [5] = Personal Phone #3 [6] = Personal Phone #4 [7] = Personal Phone #5 [8] = Pager #	
4	[PHONE #] + [ENTER]*	Enter phone # (up to 32 digits) and press [ENTER]. Goes to next phone#, or go to step 5 if [8] = Pager # was selected. *To erase a phone number.pager message, press the [SLEEP] key for 3 seconds.
5	[MESSAGE] + [ENTER]	Step 5 for Pager # only. Enter pager message and press [ENTER].

Cancel Communication

Step	Action	Details
1	 + [INSTALLER CODE]	 = flash. [MAINTENANCE CODE] may also be used.
2		
3	[9]	Cancels all communication with WinLoad.

PGMs

Step	Action	Details
1	 + [INSTALLER CODE]	 = flash. Programmed zones are lit (button or LED depending on keypad). [MAINTENANCE CODE] may also be used.
2		
3	[PGM NUMBER]	2 digits: 01 to 12
4	[ENROLL OR ERASE PGM]*	Hardwired PGM = press [ENTER]. *To erase a PGM, press the [SLEEP] key for 3 seconds.
5	[PGM TYPE]	<div> 1 = N/A 2 = N/A 3 = Follow Zone 4 = Follow Alarm </div> <div> 5 = Follow Bell 6 = Follow Arm 7 = Follow Stay arm 8 = Follow Sleep arm </div>
6	If PGM type is 3, or 4 [ACTIVATION DELAY]	<div> 1 = Follow 2 = 1 second 3 = 5 seconds </div> <div> 4 = 15 seconds 5 = 30 seconds 6 = 1 minute </div> <div> 7 = 5 minutes 8 = 15 minutes 9 = 30 minutes </div>
	If PGM type is 5 Goes to next available PGM.	
	If PGM type is 6, 7, or 8 [1] and/or [2] + [ENTER]	If system is partitioned, select partition(s) and press [ENTER]. Goes to next available PGM.
7	If PGM type is 3 [2-DIGIT ZONE #]	01 to 32; 00 = all zones. Goes to next available PGM.
	If PGM type is 4 [1] and/or [2] + [ENTER]	If system is partitioned, select partition(s) and press [ENTER]. Goes to next available PGM.

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For technical support in Canada or the U.S., call 1-800-791-1919, Monday to Friday from 8:00 a.m. to 8:00 p.m. EST. For technical support outside Canada and the U.S., call 00-1-450-491-7444, Monday to Friday from 8:00 a.m. to 8:00 p.m. EST. Please feel free to visit our website at www.paradox.com



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