Alliance System

Advanced Programming Manual

interlogix

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Contents

Preface

This is the UTC Fire & Security *Alliance System Programming Manual* for Alliance security panel models *AL-4017* and *AL-4617*. This document includes an overview of how to plan an Alliance system, and detailed instructions explaining:

- basic Alliance system programming concepts,
- each of the programming options,
- how to use event flags,
- Alliance panel reporting codes.

There is also information describing how to contact technical support if you have questions or concerns.

To use this document effectively, you should be a trained Alliance system installation technician, or have similar qualifications, including the following minimum qualifications:

- a basic knowledge of security management software; and
- a basic knowledge of security systems and components.

Read these instructions and all ancillary documentation entirely ~~before~~ installing or operating this product. The most current versions of this and related documentation may be found on our website. Refer to *Online publication library* on page 260 for instructions on accessing our online publication library.

Note: A qualified service person, complying with all applicable codes, should perform whatever hardware installation is required.

Conventions used in this document

The following conventions are used in this document:

Bold	Menu items and buttons.
Italic	Emphasis of an instruction or point; special terms.
	File names, path names, windows, panes, tabs, fields, variables, and other GUI elements.
	Titles of books and various documents.
Blue italic	(Electronic version.) Hyperlinks to cross-references, related topics, and URL addresses.
Monospace	Text that displays on the computer screen.
	Programming or coding sequences.

Safety terms and symbols

These terms may appear in this manual:

CAUTION: Cautions identify conditions or practices that may result in damage to the equipment or other property.

WARNING: Warnings identify conditions or practices that could result in equipment damage or serious personal injury.

Chapter 1   Introduction

This chapter provides an overview of the Alliance system and instructions for planning the best approach to programming the system.

In this chapter:

Product overview

The Alliance system is a single, integrated platform combining flexible hardware, powerful software, and multiple technologies.

The system features:

- Integrated alarm and access control for up to 256 inputs and 64 doors
- Modular RS-485 data bus with continuous polling of up to 16 remote arming stations (RASes) and 15 data control panels (DGPs)
- Programmable Logic Control (PLC) with 24 Macro logic equations
- 255 programmable outputs
- Built-in PSTN dialer
- 2-state or 4-state monitored analog inputs
- Programming, monitoring, and service both on-site and by remote computer
- Switched mode power supply
- Steel enclosures

Planning the system

You should create a system plan prior to installing and programming an Alliance system. A system plan should include:

Site map. Create a basic drawing that shows the premises with the location of all required system equipment (labeled with name and zone number or address). If the anti-passback function is required for the system, Regions and IN/OUT reader addresses should be defined on the site map.

Equipment list. Use the site map to create a list of all equipment needed for the system.

Maximum standby current. Use the equipment list and the Battery Calculation Worksheet in the *AL-4017/AL-4617 Installation and Quick Programming Manual* (1040731) to add up all of the input current required by every piece of equipment and determine the proper battery amp hour rating to meet your minimum standby time requirements.

Text word list. Use the site map to create a list of text words needed to identify all equipment and zone names for the system.

Programming worksheets. Use worksheets to record programming details. Blank worksheets are provided in *Alliance System User's Guide* (1040729).

Chapter 2   Programming basics

This chapter provides instructions for getting started with programming the Alliance system.

In this chapter:

Programming basics

There are 24 top-level menus in the Alliance system (see *Table 1*). Most of the programming described in this manual is accessed via option 19, Installer Programming (see *Table 2*).

Table 1.   Alliance system menu (top level)

1. Panel Status	13. Start Auto Disarm Test
2. Active Zones	14. Program Users
3. Zones in Alarm	15. Time and Date
4. Bypassed Zones	16. Bypass/Unbypass RAS/DGP
5. History	17. Enable/Disable Service Technician
6. Test Report	18. Reset Cameras
7. Service Menu	19. Installer Programming
8. Film Counters	20. Door and Floor Groups
9. List Zone Names	21. Holidays
10. Bypass Zone	22. Open Doors
11. Unbypass Zone	23. Unlock, Lock, Disable and Enable Doors
12. Test Zone	24. Print History

Clearing the memory

After the Alliance system is installed, you need to clear the panel memory and apply power before you can start programming.

Use the following steps to clear the panel memory:

1. Remove all power to the control panel (AC and battery).
2. Short the "KILL" jumper for about 30 seconds.
3. Open the "KILL" jumper.
4. Apply power to the control panel.

The panel memory is now cleared and restored to factory defaults.

Disarming the system

The system must be disarmed before you can access the menu. Use the following steps to disarm the system.

1. Press **[CLEAR]**.

> **05:43 02APR2006**
> **Code:**

2. Enter **1122** (the default Manager PIN code), press **[OFF]**, and then enter **0** (select all areas).

Accessing the menu

Use the following steps to access the Alliance system menu when the Code prompt is displayed on the bottom line of the RAS.

1. Press **[MENU*]**.

> **To Access Menu Enter Code**
> **Code:**

2. Enter **1278** (default Installer code), and press **[ENTER]**.

> **0-Exit ENTER-Down, *Up**
> **0-Exit, Menu:**

3. To access the Installer Programming menu enter **19** (Installer Programming option number), and press **[ENTER]**.

> **Simple/Advanced Menu**
> ***-Advanced**

4. To choose the advanced menu option, press **[MENU*]**. Alternatively, to choose the simple menu option, press **[ENTER]**.

Note: The simple menu option will limit access to a number of options in the Installer Programming menu. It is recommended that you always choose the advanced menu option.

```
Installer  Programming
0-Exit, Menu:
```

You can now select the programming option you need from the Installer Programming menu (see *Table 2*).

Table 2.   Installer Programming menu options

1. Zone Database	28. To Remote Devices
2. Area Database	29. Computer Connection
3. RAS Database	30. Printer
4. DGP Database	31. Battery Testing
5. Alarm Groups	32. Custom LCD Message
6. Timers	33. Program Next Service
7. System Options	34. Program System Event Flags
8. Auto Reset	35. Program Macro Logic
9. Communication Options	36. Reserved Menu
10. Program Text	37. Reserved Menu
11. Version Number	38. Reserved Menu
12. Lamp Test	39. Reserved Menu
13. Time Zones	40. Reserved Menu
14. Defaults	41. Reserved Menu
15. Alarm Group Restrictions	42. Reporting Class Database
16. Event to Output	43. Test Calls
17. Auto Arm/Disarm	44. Reserved Menu
18. Vaults	45. Reserved Menu
19. Area Linking	46. Reserved Menu
20. System Codes	47. Reserved Menu
21. Zone Shunts	48. Reserved Menu
22. Time Zone to Follow Output	49. Reserved Menu
23. Poll Errors	50. Channel Mapping
24. Download to Remote Device	51. Engineering Reset

25. Display Last Card

26. Reserved Menu

27. Reserved Menu

52. Voice Reporting

53. Program DVMRe

54. Engineer Walk Test

Programming tools

Navigation tools

The following keys are used to move between system menus or between menu options in Installer Programming:

- Press **[ENTER]** to scroll forward one menu option.
- Press **[MENU*]** to scroll backward one menu option.
- Enter the menu number and press **[ENTER]** to jump directly to a menu.
- Enter **0** and press **[ENTER]** or press **[CLEAR]** to exit the menu.

The LCD display

The LCD display on the keypad has two lines of characters. Each line contains a different type of information.

Figure 1.   Sample LCD display
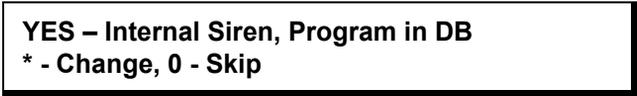
> **YES – Internal Siren, Program in DB**
> *** - Change, 0 - Skip**

For example, the top line in *Figure 1* contains system information, and the bottom line contains the instructions and characters you can enter on the keypad. For this example, you could enter **0** to skip this option.

Programming the options

In this document "enter" is used in the following ways:

- Press the key (or sequence of keys) on the RAS keypad that corresponds with the required value. For example, press the 0 key to 'enter' the value 0.
- Press the **[ENTER]** key on the RAS keypad to accept the value that you entered (or to accept the value displayed on the LCD display).

To program a value, such as a number or amount, enter the value and press **[ENTER]**. The information will be saved and the display will show the next option.

To program a YES/NO option, press **[ENTER]** to accept the display or press **[MENU*]** to toggle between YES and NO. Enter **0** to skip options.

Note: If a value is already programmed and needs to be changed, enter the new value and press **[ENTER]** to change the value.

Reset to default

Sometimes it is necessary to bring the control panel back to factory defaults (i.e. when programming a system that has been without power for more than two weeks). Refer to *Installer menu option 14, Defaults* on page 145 for instructions.

Programming sequence

The sequence of the programming steps is very important. Perform the first ten steps in the sequence shown to ensure correct programming of the system.

Required programming (must be done in sequence shown)

1. Installer Programming menu option 10, *Program Text*
2. Installer Programming menu option 13, *Time Zones*
3. Installer Programming menu option 2, *Area Database*
4. Installer Programming menu option 5, *Alarm Groups*
5. Installer Programming menu option 3, *RAS Database*
6. Installer Programming menu option 4, *DGP Database*
7. Installer Programming menu option 1, *Zone Database*

8. Installer Programming menu option 9, *Communication Options*

9. System menu option 14, *Program Users*

10. Installer Programming menu option 16, *Event to Output*

These options are described in detail in

Custom programming (can be done in any order)

Installer Programming menu option 6, *Timers*

Installer Programming menu option 7, *System Options*

Installer Programming menu option 8, *Auto Reset*

Installer Programming menu option 11, *Version Number*

Installer Programming menu option 12, *Lamp Test*

Installer Programming menu option 14, *Defaults*

Installer Programming menu option 15, *Alarm Group Restrictions*

Installer Programming menu option 17, *Auto Arm/Disarm*

Installer Programming menu option 18, *Vaults*

Installer Programming menu option 19, *Area Linking*

Installer Programming menu option 20, *System Codes*

Installer Programming menu option 21, *Zone Shunts*

Installer Programming menu option 22, *Time Zone to Follow Output*

Installer Programming menu option 23, *Poll Errors*

Installer Programming menu option 24, *Download to Remote Devices*

Installer Programming menu option 25, *Display Last Card*

Installer Programming menu option 28, *To Remote Device*

Installer Programming menu option 29, *Computer Connection*

Installer Programming menu option 30, *Printer*

Installer Programming menu option 31, *Battery Testing*

Installer Programming menu option 32, *Custom LCD Message*

Installer Programming menu option 33, *Program Next Service*

Installer Programming menu option 34, *Program System Event Flags*

Installer Programming menu option 35, *Program Macro Testing*

Installer Programming menu option 42, *Reporting Class Database*

Installer Programming menu option 43, *Test Calls*

Installer Programming menu option 51, *Engineering Reset*

Installer Programming menu option 52, *Voice Reporting*

Installer Programming menu option 53, *Program DVMRe*

Installer Programming menu option 54, *Engineer Walk Test*

These options are described in detail in *Custom programming* on page 113.

Chapter 3   Programming details

This chapter provides detailed instructions about programming the Alliance system, listed in the recommended order of programming.

In this chapter:

Required programming

The sequence of the programming steps is very important to ensure correct programming of the system. Perform the steps in the sequence of the following sections:

See also *Custom programming* on page 113 for more options.

Installer menu option 10, Program Text

The control panel uses a library of text words to program names or text into the system (e.g. zone names, area names, etc.). These text words form part of the variable text that appears on the LCD display.

All the text words in the library are identified with a reference number (from 001 to 899). See *Table 4, Text word library* on page 17 for the list of text words available.

Program new text words

If your system requires text words not found in the library, you can program up to 100 additional words for your application needs. Record these additional text words in *Table 5, Programmed text words* on page 27. Text words can be any combination of 16 characters, including letters, numbers, spaces (making two words for one reference number), or punctuation.

Use the following steps to navigate to the option:

1. Press **[MENU*]** enter **1278** and press **[ENTER]** to access the system menu.

2. Enter **19** and press **[ENTER]** to access menu 19, Installer Programming.

3. Press **[MENU*]** to choose advanced menu.

4. Enter **10** and press **[ENTER]** to access option 10, Program Text.

5. Enter the word reference number from 900 to 999.

6. Using the number keys on the keypad, enter the required letter (see *Table 3, Key press to get character* on page 16. Press **[ENTER]** to advance to the next letter. Press **[MENU*]** to advance to the next word. Press **[CLEAR]** to exit the menu.

Table 3. Key press to get character

Key	Key press to get character						
	1st	2nd	3rd	4th	5th	6th	7th
1	A	B	C	1	a	b	c
2	D	E	F	2	d	e	f
3	G	H	I	3	g	h	i
4	J	K	L	4	j	k	l
5	M	N	O	5	m	n	o
6	P	Q	R	6	p	q	r
7	S	T	U	7	s	t	u
8	V	W	X	8	v	w	x
9	Y	Z	sp	9	y	z	sp
0	.	,	?	!	:	;	-
Key	8th	9th	10th	11th	12th	13th	14th
0	+	#	*	(	)	'	"
Key	15th	16th	17th	18th	19th	20th	21st
0	_	@	&	$		%	/
Key	22nd	23rd					
0	<	>					

Table 4.   Text word library

A					
001	Above	008	Area	009	Arming
002	Access	332	Area One	421	Art
003	Accountant	333	Area Two	265	Assistant
264	Accounts	334	Area Three	367	Assistant Manager
417	Accounts Manager	335	Area Four	369	Assistant Manager Day
004	Across	336	Area Five	422	Assistant Principal
404	Admin	337	Area Six	423	Assoc Administrator
418	Administration	338	Area Seven	010	At
272	Air Conditioning	339	Area Eight	011	ATM
005	Alarm	340	Area Nine	308	Atrium
006	All	341	Area Ten	012	Audio
362	All Area User Code	342	Area Eleven	013	Auto
520	All ATMs	343	Area Twelve	350	Auto Arm
419	Amenities	344	Area Thirteen	351	Auto Disarm
295	Analog	345	Area Fourteen	014	Automatic
420	Ancillary Staff	346	Area Fifteen	381	Auto Reset
514	And	347	Area Sixteen	015	Aux
007	APC	410	Armoured Car	424	AV Production
B					
016	Back	020	Bay	028	Bottom
349	Baker	021	Beam	326	Box
376	Baker 1	022	Bedroom	539	BRD

Table 4.   Text word library (continued)

377	Baker 2	023	Bell	267	BRG
017	Bar	024	Board	029	Building
018	Basement	025	Boardroom	425	Bulk Store
019	Bathroom	026	Body	030	Business
273	Battery	027	Boiler	031	Button
C					
032	Cabinet	045	Charge	055	Compactor
033	Cage	046	Chief	056	Computer
034	Call	047	Cigarettes	429	Computer Room
293	Calibration	048	City	057	Conference
035	Camera	427	Class Room	430	Conference Room
036	Canteen	352	Cleaner	058	Contact
037	Car	411	Cleaner Selling	059	Control
038	Caroline	412	Cleaner Front	299	Corridor
039	Cash	413	Cleaner Admin	358	Count
408	Cash Office	049	Clerk	060	Counter
040	CCTV	050	Clip	325	Cover
041	Ceiling	051	Cold	432	Covered Area
042	Cellar	052	Combination	061	Covering
043	Central	428	Commerce	522	Curtain
426	Central Bulk Store	053	Commercial	269	Custody
431	Center	054	Communication	062	Customer

Table 4. Text word library (continued)

D					
274	Dairy	066	Dining	503	Double
433	Dark Room	296	Digital	275	DOTL
304	Data	067	Dispatch	070	Downstairs
063	Delayed	435	District Facility	071	Driveway
266	Desk	068	Dock	072	Drug
064	Detector	069	Door	436	Dry Craft
434	Developmental	465	Doors	074	DUALTEK
065	DGP	543	Door Keypad	073	Duct
330	Dump	075	Duress		
E					
437	Early	079	Emergency	083	Equipment
076	East	297	Engineering	441	Equipment Store
438	Education	080	End	298	Evaluation
077	Electric	081	Enquiry	084	Exit
078	Electrical	082	Entry	085	Exterior
439	Electronics	440	Entry/Display Area	086	External
F					
087	Factory	092	Film	278	Forced Door
442	Factory Manager	093	Fire	096	Foyer
276	Fail	443	Fitness Testing	097	Freezer
088	Failure	094	Floor	098	Front
089	Fashion	323	FLR	379	Front Counter

Table 4.   Text word library (continued)

090	Fence	095	Foil	538	Front Door Keypad Bank 1
091	File	277	Food	542	Front Door Keypad Bank 2
G					
099	Games	448	Graphics	395	Group 21
283	Gaming	312	Grd/Flr	396	Group 22
100	Gas	449	Groundsman Store	397	Group 23
101	Garden	106	Ground	398	Group 24
102	Garage	303	Group	399	Group 25
103	Gate	385	Group 11	400	Group 26
104	General	386	Group 12	401	Group 27
445	General Circulation	387	Group 13	402	Group 28
530	General Staff	388	Group 14	403	Group 29
519	General Staff 1	389	Group 15	450	Guard
532	General Staff 2	390	Group 16	548	Guard Patrol Full
446	GLA	391	Group 17	549	Guard Patrol Limited
447	GLA/Stage	392	Group 18	279	Gun
105	Glass	393	Group 19	315	GYM
328	Goods	394	Group 20		
H					
107	Hall	109	Heat	361	Holdup Bar
444	Hallway	364	High Level User Master	382	Holdup Button
108	Hand	527	High SSO	451	Home Economics

Table 4.   Text word library (continued)

327	Hatch	110	Holdup		
I					
111	In	112	Input	114	Internal
280	Inertia	452	Instrument Store	524	Isolate
281	Inner	113	Interior		
J					
453	Janitor	115	Jewelry	365	Junction
K					
384	Kamahira	302	Keypad	117	Kitchen
355	Key	353	Keyswitch Inhibited	348	Kiosk
545	Keybox	116	Kick bar		
L					
118	Landing	121	Level	126	Loading
282	Lay By	122	Library	127	Loans
454	Learning	123	Lift	128	Lobby
119	Left	124	Light	129	Lock
120	Lending	125	Liquor	130	Long Range
375	Loss Prevention	363	Low Level User Master	528	Low SSO
131	Lounge	132	Lower	133	Lunch
284	Low				
M					
134	Machine	458	Manual	460	Metal Workshop

Table 4.   Text word library (continued)

455	Machinery Store	139	Master	143	Microwave
135	Magnetic	044	MASTER ADVISOR	144	Middle
136	Main	140	Mat	145	Money
456	Main Admin Office	459	Materials Store	146	Motion
457	Main Entry	329	Meat	147	Motor
285	Mains	523	Mechanic	461	Multipurpose Room
318	Makash	141	Medical	462	Music
137	Manager	316	Meeting	463	Music Practice
138	Manchester	142	Mens	464	MYCP & Interview
N					
313	ND	11	Night	154	North East
148	Near	370	Night Manager	155	Note
268	New	354	Noise Makers Isolated	156	Number
149	Next	152	North		
150	Next To	153	North West		
O					
157	Off	160	On	360	Out
158	Office	161	Open	286	Outer
159	Officer	466	Orchestral	162	Over
P					
163	Panel	169	Phone	471	Pre-School
164	Panic	170	PIR	472	Preparation

Table 4.   Text word library (continued)

165	Park	322	360 PIR	473	Principal
467	Passage	287	Pit	311	Print
166	Passive	288	Plant	474	Printery
468	Patrol	470	Playroom	475	Production
531	Patrol 2	357	Pneumatic	310	Productivity
533	Patrol 3	171	Point	476	Professional Support
167	Penset	172	Pool	175	Protection
469	Performing Art Center	356	POPUP	477	Public Waiting
168	Perimeter	173	Port	176	Pull
321	Personnel	174	Power	177	Pump
Q					
478	Quiet Learning				
R					
178	Rack	186	Record	482	Resource Store
179	Radio	187	Reed Switch	300	Retrofit
180	Raid	479	Reference	306	RF
181	Ramp	188	Refrigeration	191	Right
317	RAS	307	Register	309	Riser
182	Reader	189	Remote	192	Road
183	Rear	190	Representative	193	Roller Door
184	Receiving	480	Reprographic Production	194	Roof
407	Receiving Dock	518	Request To Exit	195	Room

Table 4.   Text word library (continued)

378	Receiving Door	294	Research	263	RSB
185	Reception	481	Resource Center	196	Rumpus
S					
197	Safe	489	Small Equip Store	221	Stair
305	Sales	490	Small Group	222	Stairway
270	Savings	212	Smoke	223	Station
483	School	213	Sound	224	Stereo
484	Science	214	South	290	Stop
198	Screen	215	South East	371	Stock Hand
199	Secretary	216	South West	372	Stock Hand 1
324	Security	217	Spare	373	Stock Hand 2
207	Seismic	491	Special	374	Stock Hand 3
200	Selling	414	Special Access 1	406	Stock Room
529	Senior Staff	45	Special Access 2	225	Store
535	Senior Staff Second TZ	416	Special Access 3	366	Store Manager
537	Senior Staff Third TZ	492	Special Education Area	368	Store Manager Day
201	Sensor	493	Sports Store	331	Store Room
485	Servery	494	Spray	226	Storage
202	Service	218	Sprinkler	227	Strobe
546	Service Code	219	SRT	359	Strong room
547	Service Allow	544	SSO	228	Strike
405	Service Bay	314	ST	498	Student Center

Table 4.   Text word library (continued)

486	Service Manager	220	Staff	499	Student Waiting
487	Services Room	495	Staff & Amenities	500	Studies
203	Shop	525	Staff Areas 1 to 4	501	Studio
204	Short Tom	526	Staff Areas 5 to 8	319	Substation
205	Show	380	Staff Door	291	Sump
206	Side	521	Staff Window Bypass	229	Supermarket
208	Sign	409	Staff Entry	230	Supervisor
488	Single	496	Staff Lounge	231	Surveillance
209	Siren	497	Staff Room	232	Switch
210	Shutter	534	Staff Second TZ	292	Switchboard
211	Sliding	536	Staff Third TZ	233	System
289	Small				
T					
234	Tamper	236	Teller	240	Toilet
235	Tape	507	Temp GLA	241	Tool
504	Teacher	508	Temp Typing	242	Top
505	Teacher Work	237	Temperature	271	Trading
502	Tea Room	509	Textile Store	510	Trades
301	Technical	044	The Challenger	243	Transmitter
506	Technician	238	Time	244	Trap
320	Telecom	239	To	511	Typing GLA
U					

Table 4.   Text word library (continued)

245	Ultrasonic	513	Unit	247	Upstairs
512	Under	246	Upper		
V					
248	Valve	541	Vault RAS Bank 2	252	Video
249	Vault	250	Vent	253	Voltage
540	Vault RAS Bank 1	251	Ventilator	83	Volumetric
W					
254	Wall	257	Window	517	Work Room
255	Warehouse	258	Wired Grid	260	Workshop
256	West	259	Women's		
515	Wet Craft	516	Wood Workshop		
Y		**Z**			
261	Yard	262	Zone		

Table 5.   Programmed text words

900		901		902	
903		904		905	
906		907		908	
909		910		911	
912		913		914	
915		916		917	
918		919		920	
921		922		923	
924		925		926	
927		928		929	
930		931		932	
933		934		935	
936		937		938	
939		940		941	
942		943		944	
945		946		947	
948		949		950	
951		952		053	
054		955		956	
957		958		959	
960		961		962	
963		964		965	
966		967		968	

Table 5. *Programmed text words (continued)*

969		970		971	
972		973		974	
975		976		977	
978		979		980	
981		982		983	
984		985		986	
987		988		989	
990		991		992	
993		994		995	
996		997		998	
999					

Installer menu option 13, Time Zones

Time zones are used to create time slots in which certain events can take place. Time zones are assigned to alarm groups, door groups, floor groups, relays/outputs, arm/disarm timers, and out-of-hours access reporting to restrict or enable specific operations during specific time periods. There are two main types of time zones, soft and hard.

Soft time zones

Soft time zones are programmed to be valid when an output is active. See *Installer menu option 22, Time Zone to Follow Output* on page 169 for programming information on soft time zones.

Also see *Activating soft time zones from a RAS* on page 30.

Hard time zones

Hard time zones are numbered 1 to 24 and are programmed for specific time periods. Each hard time zone is made up of one to four sub-time zones containing:

- A start time
- An end time
- The weekdays that the sub-time zone is valid
- An option to make the sub-time zone valid on holidays

Example: Time Zone 1 could contain the following sub-time zones:

1.1	08:00 to 17:00	Mo, Tu, We, Th, Fr
1.2	08:00 to 15:00	Sa, Su
1.3	18:00 to 20:00	Mo, Tu, We, Th, Fr
1.4	18:00 to 22:00	Sa, Su

Use consecutive sub-time zones when a time zone's start time and end time are on different days. The hours 24:00 and 00:00 are not recognized as end times and can therefore be used to extend a period to the next sub-time zone.

A time zone is invalid on any holiday that has been declared in the holiday date file (system menu 21) unless "HOL" is included as a day in the sub time zone. If "HOL" is included, the

time zone is valid on any holiday (even if the day of the week that it falls on is not included in the sub-time zone).

Note: Time zone 0 (zero) is a 24-hour time zone (always valid) and is not programmable.

Activating soft time zones from a RAS

AL-111x-series RASes provide function key emulation, which may be used to activate soft time zones in the range 41 through 63 for approximately four seconds. Longer durations can be achieved by use of macros: the soft time zone can be used to activate an output, which can then be used as an input to a macro.

When using an AL-111x-series RAS, press the **[Open]** key simultaneously with a numbered key (1 through 6) to activate a soft time zone. The soft time zone applied by the key combination is based on *Table 6*.

Table 6.   Mapping of RAS function key emulation to time zone numbers by RAS address

Key	RAS 1	RAS 2	RAS 3	RAS 4	RAS 5	RAS 6 to 16
1	TZ 42	TZ 46	TZ 50	TZ 54	TZ 58	not applicable
2	TZ 43	TZ 47	TZ 51	TZ 55	TZ 59	not applicable
3	TZ 44	TZ 48	TZ 52	TZ 56	TZ 60	not applicable
4	TZ 45	TZ 49	TZ 53	TZ 57	TZ 61	not applicable
5	— activates time zone 62 for any RAS address from 1 through 16 —					
6	— activates time zone 63 for any RAS address from 1 through 16 —					

Programming hard time zones

Use the following steps to navigate to the option:

1. Press **[MENU*]** enter **1278** and press **[ENTER]** to access the system menu.

2. Enter **19** and press **[ENTER]** to access menu 19, Installer Programming.

3. Press **[MENU*]** to choose advanced menu.

4. Enter **13** and press **[ENTER]** to access option 13, Time Zones.

> **Time Zones**
> **Time Zone No:**

5. Enter the time zone number and press **[ENTER]**. The display will begin with the first of four sub-time zones (for example TZ 1.1).

> **TZ 1.1 Start - 08:00 End - 00:00**
> **Start Hours:**

6. Enter the start time hour and press **[ENTER]**.

> **TZ 1.1 Start-08:00 End-00:00**
> **Start Mins:**

7. Enter the start time minutes and press **[ENTER]**.

> **TZ 1.1 Start-08:00 End-00:00**
> **End Hours:**

8. Enter the end time hour and press **[ENTER]**.

> **TZ 1.1 Start-08:00 End-00:00**
> **End Mins:**

9. Enter the end time minutes and press **[ENTER]**. The start and end times programmed will show on the top line of the display.

10. Press **[ENTER]** to advance to the day of the week field.

> **TZ 1.1 Days:--,Mo,Tu,We,--,--,--,Hol**
> **(1) Sun - (8) Hol:**

11. Enter the start day needed and press **[ENTER]**. For the days of the week, enter their numerical value with Sunday as "1" and holiday as "8". Repeat for each day needed. The active time zone days will show on the top line of the display.

12. The next displays contain sub-time zones 1.2 through 1.4 that can be programmed in the same way as sub-time zone 1.1. Press **[MENU*]** to skip a time zone or sub-time zone.

13. Press **[MENU*]** twice to exit.

Installer menu option 2, Area Database

Each area can be programmed with a number of options, such as the area name, entry and exit times, and event flags.

Use the following steps to navigate to the option:

1. Press **[MENU*]** enter **1278** and press **[ENTER]** to access the system menu.

2. Enter **19** and press **[ENTER]** to access menu 19, Installer Programming.

3. Press **[MENU*]** to choose advanced menu.

4. Enter **2** and press **[ENTER]** to access option 2, Area Database.

Note: To program a YES/NO option, press **[ENTER]** to accept the display or press **[MENU*]** to toggle between YES and NO. Enter 0 to skip options.

Select area to program

> **Area Database**
> **Area No:**

Enter the area number and press **[ENTER]**.

Area name

Every area can be programmed with a name to identify the area. The words are selected from the word library or from custom programmed text (see *Installer menu option 10, Program Text* on page 15). The display shows the current area name, preceded by its reference number.

> **Area Name: 0260 Workshop**
> **Text No:**

Enter the reference number for the area text name and press **[ENTER]**.

Exit time

Every area has its own exit timers. Exit timers allow users arming an area, to leave the premises, without generating an alarm (using access or entry/exit zones). Only after the exit timers have expired, can an alarm occur.

> **Area 1:>Exit –Time 30 Entry Time 30**
> **Exit time:**

Each area can be programmed with one exit time. The exit times apply to all entry/exit or access zone types (3, 4, 13, 14, 41 and 42). The entry time can only be started with entry/exit zone types (3, 13, 41 and 42).

The exit timers can be programmed from 0 to 255 seconds.

> **Area 1:>Exit Time 30 Entry Time 30**
> **Entry time:**

Note: If zones are assigned to more than one area, the longest exit time is used.

Enter the exit time and press **[ENTER]**.

Entry time

Every area has its own entry timers. When entering the premises via an entry/exit zone, the entry time starts. A user can disarm the area while the entry time is running without generating an alarm.

Each area can be programmed with one entry time. The entry times apply to all entry/exit or access zone types (3, 4, 13, 14, 41 and 42). The entry time can only be started with entry/exit zone types (3, 13, 41 and 42).

The entry timers can be programmed from 0 to 255 seconds.

Note: If zones are assigned to more then one area, the longest entry and exit time is used.

Enter the entry time and press **[ENTER]**.

Area event flags

Areas are capable of triggering event flags. Area event flags are different from event flags in the zone database. Area event flags are triggered by an area event, not from a particular zone event.

Example: To bypass an area number:

- Activate an event flag number.
- Trigger an output.

To program area event flags do the following:

1. Choose an event flag number from 0 through 255.

2. Record the event flag description for the chosen number on your system plan.

3. In *Installer menu option 16, Event to Output* on page 110 do the following:

    - Select an output event flag number.
    - Choose the event flag number that will trigger this output.
    - Select a time zone to control the output.

External siren event flag

This event flag is triggered when a zone generates an alarm (if the zone's external siren event flag set to YES). Each area can have its own external siren, using different event flags for each area.

> **Area 1 External Siren Event Flag 1**
> **Event Flag:**

Enter the event flag number and press **[ENTER]**. Event flag 1 is selected by default.

If no change is needed, press **[ENTER]** to go to the next option.

Internal siren event flag

This event flag is triggered when a zone generates an alarm (if the zone's internal siren event flag set to YES). Each area can have its own internal siren, using different event flags for each area.

> **Area 1 Internal Siren Event Flag 13**
> **Event Flag:**

Enter the event flag number and press **[ENTER]**. Event flag 13 is selected by default.

If no change is needed, press **[ENTER]** to go to the next option.

Area disarmed event flag

This event flag actives when the area is disarmed.

> **Area 1 Disarmed No Event Flag**
> **Event Flag:**

Enter the event flag number and press **[ENTER]**.

If no event flag is needed, press **[ENTER]** to go to the next option.

Area active event flag

This event flag indicates if any zone in the area is active, excluding zones that can be used to change the status of an area, used for cameras or are zone type "Unused".

> **Area 1 Active No Event Flag**
> **Event Flag:**

Enter the event flag number and press **[ENTER]**.

If no event flag is needed, press **[ENTER]** to go to the next option.

Bypassed event flag

A zone in this area has been bypassed.

> **Area 1 Bypassed No Event Flag**
> **Event Flag:**

Enter the event flag number and press **[ENTER]**.

If no event flag is needed, press **[ENTER]** to go to the next option.

Armed alarm event flag

This event flag activates on an alarm when the area is armed.

> **Area 1 Armed Alarm No Event Flag**
> **Event Flag:**

Enter the event flag number and press **[ENTER]**.

If no event flag is needed, press **[ENTER]** to go to the next option.

Disarmed alarm event flag

This event flag activates on an alarm when the area is disarmed.

> **Area 1 Disarmed Alarm No Event Flag**
> **Event Flag:**

Enter the event flag number and press **[ENTER]**.

If no event flag is needed, press **[ENTER]** to go to the next option.

Local alarm event flag

This event flag activates on local alarms from 24-hour local fail zone types (15, 16, 18, 21, 30, 41, 42, 44, and 56) in the area.

> **Area 1 Local Alarm No Event Flag**
> **Event Flag:**

Enter the event flag number and press **[ENTER]**.

If no event flag is needed, press **[ENTER]** to go to the next option.

Exit timer event flag

This event flag activates when the exit time for the area is running.

> **Area 1 Exit Timer No Event Flag**
> **Event Flag:**

Enter the event flag number and press **[ENTER]**.

If no event flag is needed, press **[ENTER]** to go to the next option.

Entry timer event flag

This event flag activates when an entry time for the area is running.

> **Area 1 Entry Timer No Event Flag**
> **Event Flag:**

Enter the event flag number and press **[ENTER]**.

If no event flag is needed, press **[ENTER]** to go to the next option.

Warning time event flag

This event flag activates to indicate that an alarm group restriction is running and the area is about to be armed or that a test mode is in progress and the test is about to end.

> **Area 1 Warning Time No Event Flag**
> **Event Flag:**

Enter the event flag number and press **[ENTER]**.

If no event flag is needed, press **[ENTER]** to go to the next option.

Camera event flag

This event flag activates when a zone with the camera event flag set to YES generates an alarm and the area is disarmed. Reset the camera event flag by pressing
[ENTER] [ENTER] 0 [ENTER].

> **Area 1 Camera No Event Flag**
> **Event Flag:**

Enter the event flag number and press **[ENTER]**.

If no event flag is needed, press **[ENTER]** to go to the next option.

Prealarm timer event flag

This event flag indicates that a delayed disarmed alarm zone is active and the delay time is running.

> **Area 1 Pre-Alarm Timer No Event Flag**
> **Event Flag:**

Enter the event flag number and press **[ENTER]**.

If no event flag is needed, press **[ENTER]** to go to the next option.

Antimask event flag

This event flag is used with PIR detectors and forces the user to test the detectors before the area can be armed. If an attempt to arm an area that has the antimask flag set to a nonzero value and any area inputs are active, the event flag is set for 5 minutes. The antimask flag is active for the duration of the timer and is reset when either the time elapses or the area is successfully armed.

> **Area 1 Anti-Mask No Event Flag**
> **Event Flag:**

Enter the event flag number and press **[ENTER]**.

If no event flag is needed, press **[ENTER]** to go to the next option.

Note: There are no antimask event flags set in the area's default settings.

Latched reset event flag

This event flag is triggered when two valid disarm codes are entered for an area within five minutes and the area is disarmed. The event flag is set for five seconds. For a further four seconds, the area's zone input type 67 (Latched Detector) is disabled. Latched Detector is a 24-hour, alarm-conditional, nine-second timer bypass input.

> **Area 1 Latched Reset No Event Flag**
> **Event Flag:**

Enter the event flag number and press **[ENTER]**.

If no event flag is needed, press **[ENTER]** to go to the next option.

Alarm-A event flag

This event flag generates an event link to a relay output. The event flag follows the "A" event generated by the AB alarms as sent to the central station event out queue.

> **Area 1 Alarm-A No Event Flag**
> **Event Flag:**

Enter the event flag number and press **[ENTER]**.

If no event flag is needed, press **[ENTER]** to go to the next option.

Alarm-B event flag

This event flag generates an event link to a relay output. The event flag follows the "B" event generated by the AB alarms as sent to the central station event out queue.

> **Area1 Alarm-B No Event Flag**
> **Event Flag:**

Enter the event flag number and press **[ENTER]**.

If no event flag is needed, press **[ENTER]** to go to the next option.

Out-of-hours time zone

This time zone is used to generate a report if the area is disarmed while the area should be armed. The message is reported depending on the type of transmission protocol.

> **Out-of-Hour Time Zone: 0**
> **Enter TZ:**

Enter the time zone number and press **[ENTER]**.

Area disarmed time

When using alarm group restrictions, one of the options available is to disarm an area for a disarmed period. If the area disarmed time is not '0', then this time will be used.

> **Area Disarmed Time: 0 Mins**
> **Enter Mins:**

Enter the minutes and press **[ENTER]**.

Report to central station 1

> **YES - Report to CS1**
> *** - Change, 0 - Skip**

YES   Report opening/closing and late-to-close to central station 1.

NO   Do not report to central station 1.

Report to central station 2

> **NO - Report to CS2**
> *** - Change, 0 - Skip**

YES   Report opening/closing and late-to-close to central station 2.

NO   Do not report to central station 2.

Report to central station 3

> **NO - Report to CS3**
> *** - Change, 0 - Skip**

YES   Report opening/closing and late-to-close to central station 3.

NO   Do not report to central station 3.

Report to central station 4

> **NO - Report to CS4**
> *** - Change, 0 - Skip**

YES   Report opening/closing and late-to-close to central station 4.

NO   Do not report to central station 4.

Enable audio listen-In

> **NO - Enable Audio Listen-In**
> *** - Change, 0 - Skip**

YES   Enable audio listen-in.

NO   Do not enable audio listen-in.

Enable exit faults

Exit faults occur when an access zone or exit zone is still open at the moment the exit time expires. On an exit fault a local alarm is generated and a special exit fault is reported to the central station.

> **NO - Enable Exit Faults**
> *** - Change, 0 - Skip**

YES   Enable exit fault reporting.

NO   Do not enable exit fault reporting.

A&B alarm reporting (ACPO)

> **NO - A&B Alarm Reporting (ACPO)**
> *** - Change, 0 - Skip**

This option is not applicable to the US market.

Disable arming if all bypassed

> **YES - Disable Arming If All Bypassed**
> *** - Change, 0 - Skip**

YES   No arming available when all zones in the area are bypassed.

NO   Arming is available when all zones in the area are bypassed.

Keybox time

> **KeyBox Time: 0 Mins**
> **Enter Mins:**

Keybox time extends the exit time. Immediately after the exit timer expires, the keybox timer starts for the specified keybox time. Close the zone before this additional keybox timer expires. If it is not closed, a full alarm will be triggered again even if the previous trigger was also an alarm. During the interval including both the exit timer and the keybox timer, openings and closings will not be registered and will not cause an alarm.

Enter the keybox time and press **[ENTER]**. If no change is needed, press **[ENTER]** to go to the next option.

Tamper alarm event flag

> **Area 1 Tamper Alarm No Event Flag**
> **Event Flag:**

The tamper alarm event flag becomes active whenever a tamper alarm is detected on an input associated with the specific area, and is independent of arming state.

Enter the event flag number and press **[ENTER]**. If no event flag is needed, press **[ENTER]** to exit.

Installer menu option 5, Alarm Groups

Alarm groups enable users, zones, and arming stations to control the system's alarm functions (also called alarm control).

An alarm groups's functionality is controlled by the following:

- **Areas**—determines the areas you want this alarm group to control.
- **Time zone**—determines the time zone applicable to this alarm group. Functions assigned via this alarm group will be applicable only for the periods allowed by the time zone. Also, both a user's alarm group time zone and the RAS's (or door's) alarm group time zone have to be valid.
- **Menus**—determines access to the Alliance system menus that the user will have for this alarm group.
- **Options**—determines access to system functions that the user or RAS will have for this alarm group. If you do not select User Alarm Group, then you will not be able to attach the alarm group to any user.

See *Table 7, Alliance system menus and options provided for alarm groups* on page 45 for details of the default settings for alarm groups.

Alarm groups are assigned to users, and to each piece of equipment on which the user performs a function (arming stations, doors 17 to 64, and area control zone types 6, 31, 34 and 35). This provides enormous flexibility when determining a user's access to, and control of, the system.

Note: You must be extremely careful when changing alarm groups. Both the functions performed by user in the alarm group and the functions available at remote arming stations and door readers with that alarm group will be affected.

A function that is provided to users via their alarm group is only valid when:

- Program settings in other sections of the same alarm group allow it.

  Example: Restricting alarm system control to reset only would be invalid unless the alarm group has been allowed alarm system control. If the Restriction Reset Only is set to YES, Alarm System Control must be set to YES.

- The user's alarm group has the same program setting as the alarm group of the RAS or door the user is using.

Example: If the Prompt with List of Areas is set to YES in the user's alarm group, it must also be set to YES in the alarm group of the RAS or door. If it is not, areas are not listed when arming/disarming.

- The user's alarm group includes the areas assigned to the alarm group of the RAS or door the user is using.

Example: If a user's alarm group has areas 1, 2, and 3 and the alarm group of the RAS or door has areas 2 and 3, only the functions for areas 2 and 3 are valid.

Alarm group default settings

Alarm groups 1 to 10 are hard coded into the system. They can be viewed but cannot be changed since they contain master control and default settings. Many alarm groups have default settings for system menus (see *System menus* on page 59) and alarm group options. The default menus and options provided for each alarm group is listed in *Table 7*.

Table 7.   Alliance system menus and options provided for alarm groups

AG number	Name	Editable	Alliance system menus and options (defaults)
1	No Access	No	Menus: None Option: User Alarm Group
2	Master RAS or Door	No	Menus: All Options: • Alarm System Control • List of Areas • Keypad Duress • Reset System Alarms • Modem Access • Alarm Group Restriction 1 • Alarm Group Restriction 2 • Alarm Group Restriction 3 • Alarm Group Restriction 4 • Alarm Group Restriction 5 • Alarm Group Restriction 6 • Alarm Group 7 – Emergency • Alarm Group 8 – Counter

Table 7.   Alliance system menus and options provided for alarm groups (continued)

AG number	Name	Editable?	Alliance system menus and options (defaults)
3	Master Code	No	Menus: All Options: • Alarm System Control • List of Areas • Keypad Duress • Reset System Alarms • Modem Access
4	8 Area RAS (1-8)	No	Menus: All Options: • Alarm System Control • List of Areas • Keypad Duress • Reset System Alarms • Modem Access • Alarm Group Restriction 1 • Alarm Group Restriction 2 • Alarm Group Restriction 3 • Alarm Group Restriction 4 • Alarm Group Restriction 5 • Alarm Group Restriction 6 • Alarm Group 7 – Emergency

Table 7. Alliance system menus and options provided for alarm groups (continued)

AG number	Name	Editable?	Alliance system menus and options (defaults)
5	8 Area RAS (9-16)	No	Menus: All Options: • Alarm System Control • List of Areas • Keypad Duress • Reset System Alarms • Modem Access • Alarm Group Restriction 1 • Alarm Group Restriction 2 • Alarm Group Restriction 3 • Alarm Group Restriction 4 • Alarm Group Restriction 5 • Alarm Group Restriction 6 • Alarm Group 7 – Emergency
6	Master Installer	No	Menus: All except 19 Options: • Alarm System Control • List of Areas • Keypad Duress • Modem Access
7	Manager	No	Menus: All except 19 Options: • User Alarm Group • Alarm System Control • List of Areas • Keypad Duress • Reset System Alarms • Modem Access
8	Spare	No	Menus: 1, 2, 3, 4, 5, 6, 7, 12, 13, 15, 19, 20, 21, 22, 23, 24 Options: None

Table 7. Alliance system menus and options provided for alarm groups (continued)

AG number	Name	Editable?	Alliance system menus and options (defaults)
9	Master Service	No	Assigned time zone 25 Menus: 1, 2, 3, 4, 5, 6, 7, 12, 13, 15, 19, 20, 21, 22, 23, 24 Options: • User Alarm Group • Keypad Duress • Reset System Alarms • Modem Access
10	Spare	No	Menus: None Options: None
11	High Level User Master	Yes	Menus: All except 19 Options: • Alarm System Control • List of Areas • Keypad Duress • Reset System Alarms
12	Low Level User Master	Yes	Menus: 2, 3, 4, 6, 7, 8, 12, 13, 17, 18, 19, 20, 21, 22, 23, 24 Options: • Alarm System Control • List of Areas • Keypad Duress
13	All Area User Code	Yes	Menus: 2, 3, 4, 6, 7, 8, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24 Options: • Alarm System Control • List of Areas • Keypad Duress

Table 7.   Alliance system menus and options provided for alarm groups (continued)

AG number	Name	Editable	Alliance system menus and options (defaults)
14	Area 1	Yes	Menus: 2, 3, 4, 6, 7, 8, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24 Options: • User Alarm Group • Alarm System Control • Keypad Duress
15	Area 2	Yes	Menus: 2, 3, 4, 6, 7, 8, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24 Options: • Alarm System Control • Keypad Duress
16	Area 3	Yes	Menus: 2, 3, 4, 6, 7, 8, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24 Options: • Alarm System Control • Keypad Duress
17	Area 4	Yes	Menus: 2, 3, 4, 6, 7, 8, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24 Options: • Alarm System Control • Keypad Duress
18	Area 5	Yes	Menus: 2, 3, 4, 6, 7, 8, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24 Options: • Alarm System Control • Keypad Duress
19	Area 6	Yes	Menus: 2, 3, 4, 6, 7, 8, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24 Options: • Alarm System Control • Keypad Duress

Table 7.   Alliance system menus and options provided for alarm groups (continued)

AG number	Name	Editable	Alliance system menus and options (defaults)
20	Area 7	Yes	Menus: 2, 3, 4, 6, 7, 8, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24 Options: • Alarm System Control • Keypad Duress
21	Area 8	Yes	Menus: 2, 3, 4, 6, 7, 8, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24 Options: • Alarm System Control • Keypad Duress
22	Area 9	Yes	Menus: 2, 3, 4, 6, 7, 8, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24 Options: • Alarm System Control • Keypad Duress
23	Area 10	Yes	Menus: 2, 3, 4, 6, 7, 8, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24 Options: • Alarm System Control • Keypad Duress
24	Area 11	Yes	Menus: 2, 3, 4, 6, 7, 8, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24 Options: • Alarm System Control • Keypad Duress
25	Area 12	Yes	Menus: 2, 3, 4, 6, 7, 8, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24 Options: • Alarm System Control • Keypad Duress

Table 7. Alliance system menus and options provided for alarm groups (continued)

AG number	Name	Editable	Alliance system menus and options (defaults)
26	Area 13	Yes	Menus: 2, 3, 4, 6, 7, 8, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24 Options: • Alarm System Control • Keypad Duress
27	Area 14	Yes	Menus: 2, 3, 4, 6, 7, 8, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24 Options: • Alarm System Control • Keypad Duress
28	Area 15	Yes	Menus: 2, 3, 4, 6, 7, 8, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24 Options: • Alarm System Control • Keypad Duress
29	Area 16	Yes	Menus: 2, 3, 4, 6, 7, 8, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24 Options: • Alarm System Control • Keypad Duress
30 to 138	Program as needed	Yes	Program as needed

Programming alarm groups

Use the following steps to navigate to the option:

1. Press **[MENU*]** enter **1278** and press **[ENTER]** to access the system menu.

2. Enter **19** and press **[ENTER]** to access menu 19, Installer Programming.

3. Press **[MENU*]** to choose advanced menu.

4. Enter **5** and press **[ENTER]** to access option 5, Alarm Groups.

Note: To program a YES/NO option, press **[ENTER]** to accept the display or press **[MENU*]** to toggle between YES and NO. Enter 0 to skip options.

Alarm group number

> **Alarm Group **WARNING****
> **Alm-Grp:**

Every alarm group has a number in the range 1 to 138.

Enter the alarm group number and press **[ENTER]**.

Alarm group name

Program a name (or use the default name, if applicable) to identify the alarm group from the text word library (see *Installer menu option 10, Program Text* on page 15).

> **Alm/Grp Name: 0297, Engineering**
> **Text No:**

Enter the reference number for the alarm group and press **[ENTER]**. The display shows the current alarm group name, preceded by its reference number.

Areas assigned

> **1,2,3,5,7,8,9,**
> **Area:**

Enter the area numbers to be controlled by the alarm group (an alarm group can only control the functions of areas that are assigned to it) and press **[ENTER]**.

User alarm group

> **YES - Can This GRP Be Assigned to Users**
> *** - Change, 0 - Skip**

YES   This alarm group can be assigned to users.

NO   This alarm group is only assigned to a zone, door, or RAS.

Note: Note An alarm group is only displayed in User Codes when the user who is creating a new user has at least the same options (includes check of alternate alarm group). A user cannot create a code for another user who has a higher security clearance.

Alarm system control

> **NO - Alarm System Control**
> *** - Change, 0 - Skip**

YES   Enable alarm system control. Users, doors, or RAS can arm or disarm the areas in the alarm group. This option must be set to YES if any of the alarm group restrictions in the alarm group are set to YES.

NO   Do not enable alarm system control. Access control functions and user menu options specified are still valid.

List of areas

> **NO - Prompt With List of Areas**
> *** - Change, 0 - Skip**

YES   After the user has entered a PIN code and pressed **[ON]** or **[OFF]**, the areas assigned to the user are displayed. The user can then select from the arm/disarm options.

NO   The areas assigned to the user are not displayed. Areas are immediately armed/ disarmed once the user has entered a PIN code and pressed **[ON]** or **[OFF]**.

Keypad duress

> **NO - Can User Activate Keypad Duress**
> *** - Change, 0 - Skip**

YES   A duress code can be entered on a keypad to activate a duress alarm.

NO   Duress cannot be activated. A duress code is treated as an invalid code.

Note: See *Duress mode* on page 135 for duress code definitions.

Reset system alarm

> **NO - Reset System Alarms**
> *** - Change, 0 - Skip**

YES   A user with this alarm group can reset the latching system alarms. Alarm System
Control and Latching Systems Alarms must also be set to YES.

NO   A user cannot reset latching system alarms.

Disable auto unbypass

> **NO - Disable Auto-Unbypass**
> *** - Change, 0 - Skip**

YES   Disarming the area will not automatically unbypass zones in the area.

NO   Disarming the area will automatically unbypass zones.

Arm and reset only

> **NO - Restricted to Arm & Reset**
> *** - Change, 0 - Skip**

YES   Only arm and reset are allowed. Alarm system control must also be set to YES.

NO   There are no alarm control restrictions.

Disarm only

> **NO - Restricted to Disarm Only**
> *** - Change, 0 - Skip**

YES   Only disarm is allowed. Alarm system control must also be set to YES.

NO   There are no alarm control restrictions.

Alarm reset only

> **NO - Restricted to Reset Only**
> *** - Change, 0 - Skip**

YES   Only alarm reset is allowed. Alarm system control must also be set to YES.

NO   There are no alarm control restrictions.

Auto bypass active zones

> **NO - Auto Bypass Active Zones**
> *** - Change, 0 - Skip**

YES   When the arming starts, all active zones are automatically bypassed and the system is armed without causing an alarm. Alarm System Control must also be set to YES.

NO   The system cannot be armed if there are active zones, unless Forced Arming is set to YES.

Forced arming when zones active

> **NO - Forced Arming When Zones Active**
> *** - Change, 0 - Skip**

YES   The check for active zones is ignored and if there are active zones when the arming procedure is started, the system still arms (the zones remain active and might cause an alarm.

NO   The system cannot be armed if there are active zones, unless auto bypass is set to YES.

Prevent forced disarming

> **NO - Prevent Forced Disarming**
> *** - Change, 0 - Skip**

YES   Areas cannot be disarmed if there are type 1 or type 11 active zones.

NO   Areas can be disarmed if there are type 1 or type 11 active zones.

Modem access

> **NO - Can User Access Via Modem**
> *** - Change, 0 - Skip**

YES   Enables modem access with a VT100 terminal by a user with this alarm group. RAS 16 must have a suitable alarm group assigned to specify the functions available. This option does not apply to upload/download software.

NO   Modem access with a VT100 terminal is not allowed by a user with this alarm group.

Alarm group restrictions (1 through 8)

> **NO - User Has Alm/Grp Restriction 1**
> *** - Change, 0 - Skip**

These options give certain restrictions to alarm groups. Only one restriction is available per alarm group, however every alarm group can use the same restriction. This section describes the following alarm group restrictions:

- **Restriction 1** - Restrict alarm control to timed disarm or arm/reset.
- **Restriction 2** - Restrict alarm control to timed disarm or arm/reset.
- **Restriction 3** - Restrict alarm control to timed disarm or arm/reset.
- **Restriction 4** - Restrict alarm control to timed disarm or arm/reset.
- **Restriction 5** - Restrict alarm control to timed disarm or arm/reset.
- **Restriction 6** - Restrict alarm control to timed disarm or arm/reset.
- **Restriction 7** - Restrict alarm control to timed disarm or arm/reset, but on a timed disarm report an emergency alarm when the area arms again.
- **Restriction 8** - Restrict alarm control to timed disarm or arm/reset, but on disarming increase a counter. When the area is armed decrease the counter. When the counter reaches 0, arm the areas in the alarm group.

YES   Activates the alarm group restrictions.

NO   The alarm group restrictions are not activated.

No arming if alarm group restriction not timing

> **NO - No Arming If Restr. Not Timing**
> ***-Change, 0-Skip**

YES   If an area has been disarmed and there is no alarm group restriction timer running, an alarm group restriction timer cannot be started. When an alarm group restriction timer expires, it arms an area. By setting this option, you prevent an area from being armed if a user without alarm group restrictions originally has disarmed it.

NO   Normal alarm group restrictions apply.

Change own PIN only

> **NO – Change Own PIN Only**
> *** - Change, 0 - Skip**

YES Users with this alarm group are restricted so that they can change only their own PIN codes.

NO Users with this alarm group may change their own PIN codes plus the PIN codes of any users that have the same alarm group or a subordinate alarm group. See *Glossary* on page 242 for a definition of subordinate alarm group.

Note: The 'Change own PIN only' option becomes available only when alarm group user menu option 14 'Program Users' is set to Yes (selected).

Allow stop voice reporting

> **NO – Allow Stop Voice Reporting**
> *** - Change, 0 - Skip**

This option, when set to YES for an alarm group assigned to both a user and an alarm group assigned to a RAS, enables a user (referred to as an authorized user) to cancel active and queued events from being reported via the voice reporting protocol (VR). This option does not apply to panic, duress, or hold-up events.

YES The user or RAS assigned with this alarm group is allowed to cancel active and queued voice reporting events.

NO The user or RAS is not allowed to stop the voice reporting.

When an authorized user disarms an area where VR dialer events are either active, or queued, the following message is presented to the user:

> **Stop Voice Reporting**
> ***-NO, #-YES:**

A response is expected within 20 seconds, otherwise the question is removed from the RAS display and panel operation continues assuming NO was selected.

It does not matter whether the area is armed or disarmed, i.e. an authorized user can initially disarm the area and choose to not stop voice reporting (or fail to make a choice), then later enter the disarm code again to choose to stop voice reporting.

System menus

> **NO - 1-Panel Status**
> ***-Change 0-Skip**

Determine if the system menu item is available in this alarm group to users or RAS.

Each system menu is displayed and must be set to YES for it to be available to the alarm group. The system menus available for selection are:

1. Panel Status	13. Start Auto Disarm Test
2. Active Zones	14. Program Users
3. Zones in Alarm	15. Time & Date
4. Bypassed Zones	16. Bypass/Unbypass RAS/DGP
5. History	17. Enable/Disable Service Tech
6. Test Report	18. Reset Cameras
7. Service Menu	19. Installer Programming
8. Film Counters	20. Door and Floor Groups
9. List Zone Names	21. Holidays
10. Bypass Zone	22. Open Door
11. Unbypass Zone	23. Unlock, Lock, Disable and Enable
12. Test Zone	24. Print History

Alarm group time zone

> **Alm-Grp 14 Time Zone 4**
> **Time Zone:**

Determine the time zone that applies to this alarm group. The alarm group is only available if the time zone is valid (see *Installer menu option 13, Time Zones* on page 29).

Enter the time zone number for this alarm group and press **[ENTER]**.

Alternate alarm group

> **Grp 14 Alt-Grp 12 – Night Shift**
> **Alm-Grp:**

You can program each alarm group to have an alternate alarm group. The alternate alarm group is used whenever the original alarm group is disabled due to an invalid time zone. The alternate alarm group can have different areas or options than the original alarm group.

Example: During normal working hours, users can arm and disarm from a list. After hours, only arm/alarm reset is allowed without presenting a list of areas.

The alternate alarm group can also be programmed with an alternate alarm group and so on, up to three alarm groups (the original plus two alternates). If a function is denied by the time zone of one alarm group, the next will be checked, etc.

Note: When alternate alarm groups are active and have alarm group restrictions, the alternate alarm group restrictions apply. See *Installer menu option 15, Alarm Group Restrictions* on page 147.

Enter the alternate alarm group number for this alarm group and press **[ENTER]**.

Arming and resetting alarms after regular hours (disarm inhibit)

1. Program the time zones for the users using *Installer menu option 13, Time Zones*.

2. Program the user alarm groups with options using *Installer menu option 5, Alarm Groups*.

3. Program the first user alarm group with options for the users using *Installer menu option 5, Alarm Groups*.

4. Program an alternate user alarm group using the option *Arm and reset only* in *Installer menu option 5, Alarm Groups*. Assign the area and select the 24/7 time zone.

5. Go back to the users alarm group and add alternate users alarm group using *Installer menu option 5, Alarm Groups*.

6. Program the users with the selected user alarm groups using *System menu option 14, Program Users*.

7. Select the users that will have the options to arm and reset the system after regular hours using *System menu option 14, Program Users*.

Installer menu option 3, RAS Database

Remote Arming Stations (RAS) are devices used to provide system control, such as area arming or disarming. Depending on the type of remote arming station, additional functions can be available, such as LCD displays, menus to set time and date etc.

Use the following steps to navigate to the option:

1. Press **[MENU*]** enter **1278** and press **[ENTER]** to access the system menu.

2. Enter **19** and press **[ENTER]** to access menu 19, Installer Programming.

3. Press **[MENU*]** to choose advanced menu.

4. Enter **3** and press **[ENTER]** to access option 3, RAS Database.

Note: To program a YES/NO option, press **[ENTER]** to accept the display or press **[MENU*]** to toggle between YES and NO. Enter **0** to skip options.

Poll RAS

> **1,2,3:4,**
> **Poll RAS:**

In order to be used, a RAS has to be polled. Polling enables communication between the RAS and the control panel. The display shows the RAS currently polled. A RAS number followed by a "," is online and will generate system and tamper alarms. A RAS number followed by a ":" is offline and will not generate system and tamper alarms.

1. Enter the RAS number to be polled and press **[ENTER]**. Repeat for all RAS numbers to be polled.

2. To deactivate a RAS number that is already polled, enter the RAS number again and press **[ENTER]**.

3. Press **[ENTER]** again to move to the next option.

Select RAS to program

> **Arming Station Details**
> **RAS No:**

Enter the RAS number to be programmed and press **[ENTER]**.

Area alarm group

> **RAS: 2 Alm-Grp: 2 Master RAS or Door**
> **Alm-Grp:**

Enter the alarm group number you want the RAS assigned to and press **[ENTER]**. This defines the areas that the RAS can control. A user can only perform options on a RAS that are allowed in both the RAS's alarm group and the user's alarm group.

Menu alarm group

> **RAS: 2 Alm-Grp: 2-Master RAS or Door**
> **Menu Alm-Grp:**

The menu alarm group determines which actions are allowed on a RAS. The menu alarm group can also have more areas than the area alarm group. The user can have no alarm control over those areas but can, for example, see the status of zones in these areas.

If the menu alarm group is programmed for alarm group 1 - No Access, then the arming station will use the area alarm group as the menu alarm group.

Enter the menu alarm group and press **[ENTER]**.

Door event flag

```
RAS: 2 Has No Door Event Flag
Event Flag:
```

If the RAS is used to unlock a door, assign a door event flag to the output. The door event flag will be activated when a valid code is entered at the RAS. The code is determined by the settings of Enter Key Opens Door Only and Alarm Code Prefix.

Enter the event flag number and press **[ENTER]**.

Output controller

```
RAS: 2 Can See Output Controller 0
Output Ctrl:
```

Keypads with card reader interfaces have an output OUT. To be able to control the output, an output control group has to be assigned to the RAS. The first output on the output controller is also the OUT output from the RAS. Whenever the first output is activated, the OUT output is also activated. If two RASes have the same output control group and the user's door group has both doors, both relays will be switched simultaneously.

Enter the output control group assigned to the RAS and press **[ENTER]**.

RAS programming options

Program the RAS according to its characteristics (for example, if the RAS has an LCD display, set the LCD Arming Station option to Yes. Refer to *Table 8* for a list of the options that may be programmed for each model of RAS.

Table 8.   Programming options by RAS model

Programming function	AL-1103	AL-1108	AL-1111	AL-1116	AL-1150	AL-1151	AL-1156	AL-1197
LCD arming station	Y	Y	Y	Y	N	N	N	N
Toggle area status	O	O	O	O	O	O	O	O
Enter key opens door only	O	O	O	O	O	O	O	O
Door event flags on alarm code	O	O	O	O	O	O	O	O
Display shunted zone on LC	O	O	O	O	N	N	N	N
Arm/disarm using one key	O#	O#	O#	O#	N	O#	O#	N
Cards auto disarm	N	O	N	O	N	N	O	O
Card always arms/disarms	N	O	N	O	N	N	O	O
Reset from RAS without cod	O	O	O	O	O	O	O	N
Alarm group restrictions disarm only	O	O	O	O	O	O	O	O
Entry/exit buzzer	O	O	O	O	O	O	O	O
Timed lockout	O	O	O	O	O	O	O	O
Cards arm after 3 badge	N	O	N	O	O	N	O	O
Disable status LED	O	O	O	O	O	O	O	O
3 LED RAS	N	N	N	N	N	Y	Y	O
Card & PIN (disarm only	N	O	N	O	O	N	O	O
RAS tamper (ACPO) are	NA	NA	NA	NA	NA	NA	NA	NA

Legend:

Y = Must be set to YES

N = Must be set to NO

O = Optional

NA = Not applicable to the US market.

= CAUTION If an LCD arming station is used as master; and "Arm Using One Key" is set to YES; the system must be programmed so that areas 9 to 16 can never be armed.

Details of RAS programming options follow.

LCD arming station

> **YES – LCD Arming Station**
> *** - Change, 0 - Skip**

YES   This RAS is an LCD arming station (must be set to YES to operate LCD arming stations).

NO   This RAS is not an LCD arming station.

Toggle area status

> **NO – Code ENTER Toggles Area Status**
> *** - Change, 0 - Skip**

YES   The **[ON]** and **[OFF]** keys lose their function. For arm control the user must enter the user code followed by **[ON]**, **[OFF]**, or **[ENTER]**. If a list of areas appears, pressing the area number and **[ENTER]** toggles the status of the area. If no list appears, the status of the areas is toggled immediately.

NO   Normal alarm control.

Note: We recommend that you set this option to NO.

ENTER key opens door only

> **NO – ENTER Key Opens Door Only**
> *** - Change, 0 - Skip**

YES   The **[ENTER]** key unlocks the door but the **[ON]** and **[OFF]** keys are used for alarm control.

NO   The **[ENTER]** key unlocks the door and also provides alarm control and resets alarms.

Note: Set this option to YES for the best user interface on LCD arming stations.

Door event flag on alarm codes

> **NO – Door Event Flag On Alarm Codes**
> *** - Change, 0 - Skip**

YES   User codes with alarm control and door groups will unlock the door.

NO   User codes with alarm control will not unlock the door.

Display shunting on LCD

> **NO – Display Shunting on LCD**
> *** - Change, 0 - Skip**

YES   When a zone is shunted, the text 'Zone Shunted' will appear on the display.

NO   Nothing is shown when a zone is shunted.

Arm/disarm using one key

> **YES – Arm/Disarm Using One Key**
> *** - Change, 0 - Skip**

YES   After entering the user code, arm or disarm areas by entering the number of the area without pressing **[ENTER]**.

NO   Normal alarm control.

Note: This option is only available for areas 1 through 8. If an LCD arming station is used as master; and "Arm Using One Key" is set to YES; the system must be programmed so that areas 9 to 16 can never be armed.

Cards auto disarm

> **NO – Cards Auto Disarm**
> *** - Change, 0 - Skip**

YES   Cards disarm areas without using the **[OFF]** key.

NO   Only the door is unlocked, except if CardAlways Arms/Disarms is set to YES orthe **[ON]**/**[OFF]** key is used.

Cards always arm/disarm

> **NO – Cards Always Arm/Disarm**
> *** - Change, 0 - Skip**

YES   Cards arm/disarm alarm groups without using the **[ON]**/**[OFF]** keys. Toggles Area Status must also be set to YES.

NO   Normal alarm control.

Note: The card user's alarm group and the arming station's (reader's) alarm group must both allow arm and/or disarm functions before a card can be used to arm/disarm.

Reset from RAS without code

> **NO – Reset From RAS Without Code**
> *** - Change, 0 - Skip**

YES   Reset alarms by pressing **[ENTER] [ENTER]** (show alarms) followed by 0 **[ENTER]**. The areas in alarm must be assigned to the RAS alarm group.

NO   Reset only with user code.

Alarm group restrictions disarm only

> **NO – AlmGrp Restriction Disarm Only**
> *** - Change, 0 - Skip**

YES   Users with alarm group restrictions can only disarm or delay automatic arming (cannot be used for alarm group restrictions with arm and reset).

NO   There is no restriction.

Enable entry/exit buzzers

```
YES – Entry/Exit Buzzers
* - Change, 0 - Skip
```

YES   Enable buzzer for entry/exit timers.

NO   No entry/exit timers on buzzer.

Note: Entry time must be greater than 10 seconds.

Timed lockout

```
YES – Timed Lockout
* - Change, 0 - Skip
```

YES   On a code tamper, the RAS will lockout for 90 seconds.

NO   Only event reported. The RAS will be available.

Note: A code tamper is five consecutive wrong codes.

Cards arm after three badges

```
NO – Cards Arm After 3 Badges
* - Change, 0 - Skip
```

YES   The assigned areas will arm with three badges of a valid card within 10 seconds.

NO   The assigned areas will arm with one badge of a valid card (if *Cards auto disarm* is set to YES).

Disable status LEDs

```
NO – Disable Status LEDs
* - Change, 0 - Skip
```

This option disables the optical indicators on the bus device card readers. The option to enable or disable the status LEDs must be set by the user because not all non-LCD bus devices are card readers, therefore this option has to be set based on the hardware connected.

YES   The panel will not set any of the LED bits in the data packet. This will result in the LEDs not being active.

NO   LEDs are not disabled.

Note: Certain card reader settings override the status of command packet LED bits so that LEDs remain illuminated even though LED bits are disabled. In order to use this feature, it may be necessary to alter card reader configurations.

Three LED RAS

> **NO – 3 LED RAS**
> *** - Change, 0 - Skip**

YES   Allows configuration of LED operation if the RAS is a three LED RAS.

NO   Default operation.

Card & PIN (disarm only)

> **NO – Card & PIN (Disarm Only)**
> *** - Change, 0 - Skip**

YES   Both card and PIN are required to disarm the system.

NO   Default operation.

RAS tamper (ACPO) area

> **RAS Tamper (ACPO) Area 1**
> **Area:**

This option is not applicable to the US market. press **[ENTER]** to skip.

Installer menu option 4, DGP Database

Data gathering panels (DGP) are devices used to send information in the system to the control panel.

Use the following steps to navigate to the option:

1. Press **[MENU*]** enter **1278** and press **[ENTER]** to access the system menu.

2. Enter **19** and press **[ENTER]** to access menu 19, Installer Programming.

3. Press **[MENU*]** to choose advanced menu.

4. Enter **4** and press **[ENTER]** to access option 4, DGP Database.

Poll DGP

```
1,2,3:4
Poll DGP:
```

Each DGP must be polled to enable communication between the DGP and the control panel. The display shows the DGP currently polled. A DGP number followed by a "," is online and can communicate with the control panel. A DGP number followed by a ":" is offline and cannot communicate with the control panel.

Enter the DGP address number to be polled and press **[ENTER]**. Repeat for all DGP address numbers to be polled.

Note: The AL-1255 4-door DGP or AL-1265 4-elevator DGP must not be addressed higher than address number 12.

To deactivate a DGP address number that is already polled, enter the DGP address number again and press **[ENTER]**.

Note: Deactivating a DGP address number clears all alarms for zones and system points for that DGP address. If the next DGP address number is not polled, alarms on any of the 32 zones that belong to the DGP are cleared.

Press **[ENTER]** again to program the DGP type.

DGP type

> **Set DGP Type**
> **DGP No:**

Enter the DGP address number of the DGP to program and press **[ENTER]**.

> **Standard**
> **Type:**

Enter the number for the type of DGP used at this address and press **[ENTER]**.

Table 9.   DGP types

Number	Type	Alliance number
0	Standard DGP	AL-1205, AL-1206, AL-1210, AL-1220
1	4-Door DGP	AL-1255
2	4-Elevator DGP	AL-1265
3	Wireless DGP (319.5 MHz)	AL-1231
4	Point ID DGP	AL-1291
5	Advanced DGP	AL-1205

DGP tamper (ACPO) area

> **DGP Tamper (ACPO) Area 1**
> **Area:**

This option is not applicable to the US market. press **[ENTER]** to skip.

Installer menu option 1, Zone Database

Each zone is a physical input on the control panel, a DGP, or a plug-in expander.

Note: All zones used for safe or vault monitoring must be a 24-hour alarm zone type.

Use the following steps to navigate to the option:

1. Press **[MENU*]** enter **1278** and press **[ENTER]** to access the system menu.

2. Enter **19** and press **[ENTER]** to access menu 19, Installer Programming.

3. Press **[MENU*]** to choose advanced menu.

4. Enter **1** and press **[ENTER]** to access option 1, Zone Database.

Note: To program a YES/NO option, press **[ENTER]** to accept the display or press **[MENU*]** to toggle between YES and NO. Enter 0 to skip options.

Zone number

> **Zone Database**
> **Zone:**

Select the appropriate zone number to program. Every zone has a number between 1 and 256, depending on the location in the system.

Enter the zone number to be programmed and press **[ENTER]**.

Zone name

> **1: Zone 1**
> **TextWord 1:**

Program a zone name to identify the zone on the RAS (for example, when an alarm has occurred).

A zone name can consist of up to four text words from the text library, each separated by a three-digit text variable number in the range 1 through 255, or a space. The complete name can have up to 36 characters. See *Installer menu option 10, Program Text* on page 15 for details.

For example, to add the zone name (Office 4 Door 1 Contact 2) for Zone 1:

1. Enter the text reference number for Office from the text library and press **[Enter]**.

2. Enter the text variable number, 4, and press **[ENTER]**.

3. Enter the text reference number for Door from the text library and press **[ENTER]**.

4. Enter the text variable number, 1, and press **[ENTER]**.

5. Enter the text reference number for Contact from the text library and press **[ENTER]**.

6. Enter the text variable number, 2, and press **[ENTER]**.

7. Press **[ENTER]** again to save the information and move to the next option.

Zone type

> **Type 2, Armed Alarm**
> **Type:**

Enter the zone input type number (from *Table 10, Zone input types*) and press **[ENTER]**.

The zone type determines exactly how the zone will function in given circumstances. Most zone types require an area, but zone types that affect the status of areas (zone types 6, 31, 34, 35) need alarm groups.

Note: The zone type is important and influences much of the programming and functions of the system. You must be very careful when programming zone types.

Armed and Disarmed — An area may be armed or disarmed. If an area is armed, certain zone types will go into alarm when the zone is activated. Other zone types only go into alarm when the area is disarmed.

Tamper Alarms — When the dual zone option is setto YES, a short or open circuit on most zone types will generate a tamper alarm. When set to NO, an open or short circuit is the same as an activated zone. Zone types that are not used to generate alarms do not generate tamper alarms.

Entry/Exit Times — Where entry/exit times are referred to, the time used is the longest entry/exit time programmed for any of the areas assigned to the zone.

Table 10. Zone input types

Number	Zone input type	Description
1	Disarmed alarm	Generates an alarm when the area is disarmed and reports it to the central station. Does not generate an alarm if the area is armed. *Example:* hold-up button
2	Instant	Generates an alarm when the area is armed, does not generate an alarm when the area is disarmed. *Example:* internal door, PIR (motion detector)
3	Entry/exit alarm	Does not generate an alarm when the area is disarmed. Does not generate an alarm when the entry or exit timer is running. When the area is armed the exit timer starts. Activating the zone during this interval will not generate an alarm. If the zone is activated after the exit time has expired, then the entry timer starts. Activating the zone during this interval will not generate an alarm. If the area is still activated when the entry time expires, an alarm is generated. *Example:* front door. **Note:** The entry/exit time must be programmed.
4	Interior follower	Does not generate an alarm when the area is disarmed. Generates an alarm when the area is armed and the exit timer for the zone has expired and the entry timer is not running. *Example:* PIR at entrance. **Note:** The entry/exit time must be programmed.
5	24-hour alarm	Generates an alarm regardless of the status of the area. *Example:* panel tampers, panic alarm.
6 [1]	Monitored key switch	The programmed alarm group functions are performed when the zones switches from normal to active. Also see footnote 1. *Example:* key switch next to front door.

Table 10. Zone input types (continued)

Number	Zone input type	Description
7 [2]	Camera suspicion	When the zone is activated, cameras in the areas assigned to the zone will be activated. When the zone is deactivated, the cameras continue to operate for the programmed suspicion time. Also see footnote 2. *Example:* suspicion button. **Note:** The suspicion time must be programmed.
8	Disarm delayed/ instant	Generates an alarm when the area is disarmed but does not report it to the central station until the delayed alarm timer has expired or a second delayed alarm is activated. Generates a general burglar arm when the area is armed. *Example:* hold-up button on a counter where more than one hold-up button is used. **Note:** The disarmed alarm delay time must be programmed.
9	Reset delayed	Resets a delayed alarm type if the zone switches to normal state. Resets a delayed alarm type if the delay timer is still running (a full alarm has not been activated). Stops the cameras from operating if the zone is activated, but the delayed time continues to run. Also see footnote 1. *Example:* reset button for quick cancellation of alarm. **Note:** Delayed zone types are: 8, 11, 22, and 40.
10	Do NOT Use	
11	Disarm delayed	Generates an alarm when the area is disarmed but does not report it until the delayed alarm timer has expired or a second delayed alarm is activated. Does not generate an alarm if the area is armed. *Example:* hold-up button. **Note:** The delayed alarm time must be programmed.
12	Restart exit timer	This is a pulsed key switch that resets the entry timers and restarts the exit timers for all areas assigned to the zone. Also see footnote 1. *Example:* key switch next to door.

Table 10. Zone input types (continued)

Number	Zone input type	Description
13	Entry/exit no zone check	Does not generate an alarm when the area is disarmed. When the area is armed and the exit timer starts, activating the zone will not generate an alarm. If the zone is activated and the exit time has expired, the entry timer starts. When the exit time has expired, an alarm will be generated. **Note:** The entry/exit time must be programmed.
14	Interior follower no alm zone check	Does not generate an alarm when the area is disarmed. Generates an alarm when the area is armed and there is no active entry/exit timer for the area. The zone may be activated when arming the area. *Example:* PIR in hallway. **Note:** The entry/exit time must be programmed.
15	Day/night	Generates a local alarm when the area is disarmed. Automatically activates an audible alert on arming stations assigned to the same areas. The only event flag activated is the zone event flag. This local alarm can be reset by pressing, [ENTER] [ENTER] 0 [ENTER], or USER CODE [OFF] AREA [ENTER], on the arming station to stop the audible alert and cancel the event. If the zone remains activated, it generates a new local alarm after the programmed local alarm reminder time. *Example:* emergency exit. **Note:** The local alarm reminder time must be programmed.
16	24-hour local ac fail	This zone is not used in standard commercial versions of Alliance system control panels. It generates a local alarm and activates an audible alert. Also see footnote 2.
17	Do NOT Use	
18	Report Fail	Generates a local alarm. Activates an audible alert on arming stations assigned to the same area. Activates FAULT LED on all arming stations and generates LCD fault display message. Also see footnote 2.

Table 10. Zone input types (continued)

Number	Zone input type	Description
19	Silent trouble	Activates FAULT LED on all arming stations and generates LCD fault display message. Also see footnote 1.
20	Zone to event flag 24-hour	Activates the zone event flag when activated, opened, or shorted. *Example:* doorbell.
21	Day/night with user code	Generates a local alarm when the area is disarmed, but does not report it to the central station and no audible alert on arming stations. This alarm can only be acknowledged by entering USER CODE [OFF] AREA [ENTER] on the arming station. Generates an alarm when the area is armed. *Example:* emergency door.
22	Disarm delay reset/instant	Generates an alarm when the area is disarmed but does not report to a central station until the delayed alarm timer has expired or a second delayed alarm is activated. If the zone closes to normal state during the delayed time, it resets automatically. Generates an alarm when the area is armed. *Example:* hold-up button. **Note:** The delayed alarm time must be programmed.
23	Camera 1 count	Used to increment the film counter for camera 1 by connecting a normally open contact across the zone. The counter increments if the zone switches from open to short. Also see footnote 1. Can only be used with Alliance control panel zones (not DGP zones).
24	Camera 2 count	Used to increment the film counter for camera 2 by connecting a normally open contact across the zone. The counter increments if the zone switches from open to short. Also see footnote 1. Can only be used with Alliance control panel zones (not DGP zones).
25	Camera 3 count	Used to increment the film counter for camera 3 by connecting a normally open contact across the zone. The counter increments if the zone switches from open to short. Also see footnote 1. Can only be used with Alliance control panel zones (not DGP zones).

Table 10. Zone input types (continued)

Number	Zone input type	Description
26	Camera 4 count	Used to increment the film counter for camera 4 by connecting a normally open contact across the zone. The counter increments if the zone switches from open to short. Also see footnote 1.
		Can only be used with Alliance control panel zones (not DGP zones).
27	Communicator only	When the zone is activated, opened, or shorted, it reports to the central station. A restore is sent when the zone deactivates. Also see footnote 2.
		Example: temperature alarm on freezer.
28	Instant with auto reset	Does not generate an alarm when the area is disarmed.
		Generates an alarm when the area is armed. Resets automatically when the zone closes to normal state.
		Example: latching glassbreak detector.
29	24-hour alarm with auto reset	Generates an alarm regardless of the status of the area. Resets automatically when the zone closes to normal state.
		Example: latching glassbreak detector.
30	Day/night with auto reset	Generates a local alarm when the area is disarmed but does not report it to the central station.
		This alarm can only be acknowledged by entering, USER CODE [OFF] AREA [ENTER], on the arming station. If the zone closes to normal state, the alarm is reset.
		Generates an alarm when the area is armed.
		Example: emergency door.
31	Latching key switch	Used to arm or disarm areas. When the zones switches to active, the areas arm. When the zones switches to normal state, the areas disarm.
		This zone types uses an alarm group to perform the arm/disarm functions. Also see footnote 1.
		Example: latching key switches to arm/disarm areas.
		Note: The alarm groups must be programmed.
32	Armed zone to event flag	Does not perform any action when the area is disarmed.
		Activates the zone event flag when the area is armed.
		Example: temperature alarm on freezer activates buzzers.

Table 10. Zone input types (continued)

Number	Zone input type	Description
33	24-hour alarm & bypass	This zone type requires different wiring. The zone can have the following states: • Shorted – generates an alarm • Normal – no alarm • Active – bypass (no alarm generated) • Open – tamper alarm *Example:* A key switch is used to bypass the zone in shopping centers where only one zone is available for each shop.
34	Area disarm/ alarm group restriction	A latching key switch that has a special function: • Switching from normal state to active starts the warning time for the alarm group restriction assigned to the alarm group. When the warning time expires, the area arms. • Switching from active to normal state disarms the areas. *Example:* key switch in a large building that indicates the area is going to arm. Also see footnote 1. **Note:** The alarm groups, alarm group restrictions, and a warning time must be programmed.
35	Area alarm group restriction arm only	A latching key switch that has a special function: • Switching from normal state to active starts the warning time for the alarm group restriction assigned to the alarm group. When the warning time expires, the area arms. • Switching from active to normal state does not perform any action. *Example:* key switch in a large building that indicates the area is going to arm. Also see footnote 1. **Note:** The alarm groups, alarm group restrictions, and a warning time must be programmed.
36	Camera 5 count	Used to increment the film counter for camera 5 by connecting a normally open contact across the zone. The counter increments if the zone switches from open to short. Can only be used with Alliance control panel zones (not DGP zones). Also see footnote 1.

Table 10. Zone input types (continued)

Number	Zone input type	Description
37	Camera 6 count	Used to increment the film counter for camera 6 by connecting a normally open contact across the zone. The counter increments if the zone switches from open to short.
		Can only be used with Alliance control panel zones (not DGP zones). Also see footnote 1.
38	Camera 7 count	Used to increment the film counter for camera 7 by connecting a normally open contact across the zone. The counter increments if the zone switches from open to short.
		Can only be used with Alliance control panel zones (not DGP zones). Also see footnote 1.
39	Camera 8 count	Used to increment the film counter for camera 8 by connecting a normally open contact across the zone. The counter increments if the zone switches from open to short.
		Can only be used with Alliance control panel zones (not DGP zones). Also see footnote 1.
40	Entry/exit day night	If the area is disarmed it has the following functions: • Shorted – Activates cameras in the areas that are assigned to the zone. When the zone switches back to normal, the cameras continue to operate for the suspicion time. • Normal – No alarm. • Active – Generates an alarm but does not report to the central station until the delayed alarm timer has expired or a second delayed alarm is activated. • Open – Tamper. Generates a general burglar alarm when the area is armed. **Note:** The delayed alarm time must be programmed.

Table 10. Zone input types (continued)

Number	Zone input type	Description
41	Entry/exit day night with coder	Generates a local alarm when the area is disarmed.
		Automatically activates an audible alert on arming stations assigned to the same areas. The only event flag activated is the zone event flag.
		This local alarm can be reset by entering, [ENTER] [ENTER] 0 [ENTER], or, USER CODE [OFF] AREA [ENTER], on the arming station to stop the audible alert and cancel the event.
		If the zone remains activated, it generates a new local alarm after the programmed local alarm reminder time.
		When the area is armed, the exit timer starts and activating the zone will not generate an alarm. If the zone is activated and the exit time has expired, the entry timer starts. When the exit time has expired, an alarm will be generated.
		Example: emergency door that is also used to enter the premises.
		Note: The entry/exit timer and the local alarm reminder time must be programmed.
42	Entry/exit fire door with code	Generates a local alarm when the area is disarmed but does not report it to the central station.
		This local alarm can only be acknowledged by entering, USER CODE [OFF] AREA [ENTER], on the arming station.
		When the area is armed, the exit timer starts and activating the zone will not generate an alarm. If the zone is activated and the exit time has expired, the entry timer starts. When the exit time has expired, an alarm will be generated.
		Example: emergency door that is also used to enter the premises.
		Note: The entry/exit timer must be programmed.
43	Day/night zone to event flag	Activates the zone event when the area is disarmed.
		Does not perform any action when the area is armed.
		Example: opening a closet activates a buzzer.

Table 10. Zone input types (continued)

Number	Zone input type	Description
44	Day/night with alarm group restriction	Generates a local alarm when the area is disarmed but does not report it to the central station.
		This local alarm can only be acknowledged by entering, USER CODE [OFF] AREA [ENTER], on the arming station.
		Generates an alarm when the area is armed but the zone can be disabled when two users with alarm group restrictions have entered their user code (not necessarily in the same area).
		Example: emergency door.
		Note: The alarm groups and alarm group restrictions must be programmed.
45	Disarm event flag/armed alarm with restriction	Activates the zone event when the area is disarmed.
		Generates an alarm when the area is armed, but the zone can be disabled if two users with alarm group restrictions have entered their user code (not necessarily in the same area).
		Note: The alarm groups and alarm group restrictions must be programmed.
46	Disarm alarm/ arm generates alarm	Generates an alarm if the area is disarmed.
		Generates a general burglar alarm if the area is armed.
47	Disarm alarm suspicion/arm generates alarm	Generates an alarm and activates the cameras if the area is disarmed. When the zone closes to normal state, the cameras continue to operate for the suspicion time.
		Generates a general alarm if the area is armed.
48	Camera 1 film out	Generates an alarm when camera 1 is out of film. Also see footnote 2.
49	Camera 2 film out	Generates an alarm when camera 2 is out of film. Also see footnote 2.
50	Camera 3 film out	Generates an alarm when camera 3 is out of film. Also see footnote 2.
51	Camera 4 film out	Generates an alarm when camera 4 is out of film. Also see footnote 2.
52	Camera 5 film out	Generates an alarm when camera 5 is out of film. Also see footnote 2.
53	Camera 6 film out	Generates an alarm when camera 6 is out of film. Also see footnote 2.
54	Camera 7 film out	Generates an alarm when camera 7 is out of film. Also see footnote 2.

Table 10. Zone input types (continued)

Number	Zone input type	Description
55	Camera 8 film out	Generates an alarm when camera 8 is out of film. Also see footnote 2.
56	Day/night If no time zone 41	If time zone 41 is invalid, the zone has the following functions:
		Generates a local alarm when the area is disarmed but does not report it to the central station.
		This alarm can only be acknowledged by entering, USER CODE [OFF] AREA [ENTER] on the arming station.
		Generates an alarm when the area is armed.
		If time zone 41 is valid, the zone is disabled.
		Example: emergency door.
		Note: The local alarm reminder time and the option to link time zone 41 to an output must be programmed.
57	Silent PA with display and report	When the zone is activated or tampered, it reports to the central station and puts the zone event text on the display. A restore is sent when the zone switches to normal state.
		Example: temperature alarm on freezer.
		Note: The zone event text must be programmed.
58	Silent PA with display no report	When the zone is activated, opened, or shorted, it puts the zone event text on the display.
		Example: temperature alarm on freezer.
		Note: The zone event text must be programmed.
59	24-hour alarm if no time zone 41	If time zone 41 is invalid, the zone generates an alarm regardless of the status of the area.
		If time zone 41 is valid, the zone is disabled.
		Note: The local alarm reminder time and the option to link time zone 41 to an output must be programmed.
60	Exit Timer Terminator	This zone type is used to terminate an exit time. If the zone switches from active to normal, the exit time will be terminated and the areas are completely armed.
61	Do NOT Use	
62	Do NOT Use	

Table 10.   Zone input types (continued)

Number	Zone input type	Description
63	Do NOT Use	
64	Do NOT Use	
65	Engineering Reset Switch	This zone type allows you to perform and engineer reset via an input. **Note:** You need to program the correct area to perform the reset.
66	Final Door Set	This zone type is used to shorten the exit timer when the sensor associated with this input is activated (normally on an exit door). When activated, it shortens the exit timer to 4 seconds.
67	Latched Detector	This zone type has a 24-hour alarm that can be isolated and associated with a latched detector event flag.
68	Anti-mask Detector	Does not generate an alarm when the area is disarmed. Gives a special indication for remote diagnostic purposes. *Example:* anti-mask detector. **Note:** During remote diagnostics, this zone, if armed, will be indicated as an anti-mask alarm.
69	Alarm (ACPO) zone	Not applicable to the US market.
70	Keybox	This zone type is linked to the keybox timer, and acts as a 24-hour alarm. When the keybox zone is active, it reports an alarm to the central station.

1.   Will not activate any of the predefined event flags.
2.   Will not activate any of the predefined event flags. Will only activate the zone event flag.

Reporting of zone

> **1: 17-130, Burglar Alarm**
> **Report:**

Select the alarm to be reported from the reporting codes if the zone generates an alarm. The event is selected from the class database and the subclasses. The actual message that is transmitted depends on the chosen protocol and the selected class and subclass. The class holds the basic reporting range (panic.) The subclass is used to provide differentiation in the event being reported (the panic class holds Contact ID codes 120 – 122 or SIA events PA and HA.)

Report to central station 1

> **YES - Report to CS1**
> *** - Change, 0 - Skip**

YES   Report to central station 1.

NO   Do not report to central station 1.

Report to central station 2

> **YES - Report to CS2**
> *** - Change, 0 - Skip**

YES   Report to central station 2.

NO   Do not report to central station 2.

Report to central station 3

> **YES - Report to CS3**
> *** - Change, 0 - Skip**

YES   Report to central station 3.

NO   Do not report to central station 3.

Report to central station 4

> **YES - Report to CS4**
> *** - Change, 0 - Skip**

YES   Report to central station 4.

NO   Do not report to central station 4.

Enable audio listen-in

> **NO – Enable Audio Listen-in**
> *** - Change, 0 - Skip**

YES   Enable audio listen-in.

NO   No audio listen-in.

Enable engineer reset on alarm

> **NO – Engineer Reset on Alarm**
> *** - Change, 0 - Skip**

YES   Engineer reset enabled for alarms in this zone.

NO   No engineer reset.

How to perform an engineer reset

Whenever an engineer reset is required, the panel will display a 4-digit code. This code is a reference to a special code that can be found in the Alliance Management Software package (menu control) or contact your local distributor for information.

Enable engineer reset on tamper alarms

> **NO – Engineer Reset on Tamper**
> *** - Change, 0 - Skip**

YES   Engineer reset enabled for tamper alarms in this zone.

NO   No engineer reset.

Disable bypass of the zone

```
NO – Disable Bypass
* - Change, 0 - Skip
```

YES   No bypass allowed.

NO   This zone can be bypassed. Select NO if users are allowed to bypass the zone.

Enable soak test

```
NO – Enable Soak Test
* - Change, 0 - Skip
```

This option enables the input into soak test mode. The soak period is started when a zone input is set to 'soak test'. The period of the soak test is set via the 'Soak Test days' from 0 to 255 days (see *Soak test days* on page 137.) If the 'Soak Test days' is set to 0, then the soak test period is infinite and must be disabled by the user. If an input is in soak test mode, it does not:

1. Report to central station

2. Activate siren

3. Activate strobe

4. Activate any outputs

The change of state is logged in the history file with the event's 'soak alarm' and 'soak alarm restore'. If the zone input does not alarm during the soak test period, the Enable Soak Test option in that zone input's database will be reset when the soak test period has elapsed. The soak period is extended by the 'Soak Test days' period again if the zone input alarms during the soak test period. The default is set to NO.

YES   Enable soak test mode.

NO   Do not enable soak test mode.

Enter **0** to skip this option.

Area /alarm group assignment

```
1,
Area:
```

For zones to perform properly when active, depending on the zone type, an area or an alarm group has to be linked to the zone (types 6, 31, 34 and 35 require an alarm group.)

Area

Assign the area to the zone that must alarm when the zone is activated and the area status (armed or disarmed) meets the requirement for the zone type.

Common area

Common areas have zones that only alarm when all areas are armed (e.g. the front door in a building provides an entry to two areas, thus the front door needs to be a common area.)

There are two ways to create zones in a common area:

1. Assign more than one area to a zone. The zone can only go into alarm if all areas meet the condition (armed or disarmed.) The zone is disarmed if one area is disarmed and the longest entry and exit time is used.

2. Use area linking. The common area is an additional area that automatically arms as soon as the linked areas are armed. The common area can be disarmed separately and has its own entry and exit times.

   Note: At least one area must be assigned to a zone. It is not possible to reset an alarm on a zone without an area assigned.

Alarm group

Alarm groups are assigned to zones that perform alarm control. Alarm groups are only available for zone types 6, 31, 34, and 35.

The function of the alarm group depends on the zone type selected during programming. These zone types are used to arm/disarm areas (they cause the zone to act like a user entering an alarm control code.)

Enter the area or alarm group numbers to be assigned to the zone being programmed and press **[ENTER]**.

Test option

```
1:2, Tested in Arm Test & Disarmed
Test Type:
```

Use this option to select the automatic testing procedures of each zone. Zone testing is done via the disarm test and the arm test, however, you can still manually test zones.

See also *Test mode* on page 122 for related programming.

Note: During the arm test, the testing event flag (event flag 16) will be activated during half the testing event flag time. Use this event flag to activate devices to generate alarms. The other half of the testing event flag time is used for the device to switch back to normal state.

Enter the required test type number and press **[ENTER]**.

Table 11. Test Types

Number	Test type	Description
0	No Testing Required	The zone is excluded from both the disarm and the arm test. (It does not appear in any test reports.) The zone is not disabled during the disarm test. *Example:* A duress button that is active during test mode, siren cover and panel tamper.
1	Test During Disarm Test	The zone is included in the disarm test. The zone is disabled during any disarm test on areas assigned to it. *Example:* Hold-up button.
2	Tested in Arm Test & Disarmed	The zone is included in the arm test. If the zone is activated during disarmed mode, it is considered tested and is not retested when the arm test is carried out. *Example:* PIR detectors, doors.
3	Test During Arm Test	The zone is included in the arm test. *Example:* Any device that needs to be automatically tested.
4	Set E/Flag 13 During Disarm Test	The zone has event flag 13 during the disarm test. This test type is used for testing devices activated by disarmed alarm types. The device must already be programmed to be activated by disarmed alarm event flag 13.

Table 11. Test Types

Number	Test type	Description
5	Set Pre-Alarm During Disarm Test	The zone activates the prealarm event flag during the disarm test in the areas assigned to the zone. This test type is used to test devices that are activated during the delayed hold-up time. The prealarm event flag number is programmed in the Area Database.
6	Frequently Used Detector Test	Program a zone with test type 6 during a remote diagnostic session to determine which zone has not been triggered during the last 6 hours after the last arming.

Zone event flag

> **No Zone Event Flag**
> **Event Flag:**

You can program event flags that are activated by a zone. Up to 15 event flags can be assigned to an individual zone.

An event flag is activated when the zone is in alarm (except for the zone event flag.) The circumstances that cause a zone to generate an alarm depend on the zone type. The event flags activated by an alarm depend on:

- Which event flags have been assigned to the zone.
- Whether the active time of the event flags, corresponds with the alarm time. Event flags can be active:
  - 24-hour
  - When disarmed only (when one or more of the areas assigned to the zone is disarmed)
  - When armed only (when all the areas assigned to the zone are armed)
- Whether the option Make All Events 24-Hour has been set to YES. If so, the active period is 24 hours for all event flags.

Note: Event flag numbers 1 – 16 are pre-defined. Do not use these event flags elsewhere in the system, even if they are not used for zones.

Internal siren event flag

> **YES – Internal Siren, Program in DB**
> *** - Change, 0 - Skip**

YES   The internal siren event flag specified in the area database is activated when the zone generates an alarm, and all the areas assigned to the zone are armed.

NO   The internal siren event flag will not be triggered by an alarm in this zone.

Note: For the internal siren event flag to operate, the internal siren event flag number in the area database for each of the areas that activate internal sirens and that are assigned to the zone must be programmed.

External siren event flag

> **YES –External Siren, Program in DB**
> *** - Change, 0 - Skip**

YES   The external siren event flag specified in the area database is activated when the zone generates an alarm, and all the areas assigned to the zone are armed.

NO   The external siren event flag will not be triggered by an alarm in this zone.

Note: For the external siren event flag to operate, the external siren event flag number in the area database for each of the areas that activate internal sirens and that are assigned to the zone must be programmed.

Keypad buzzer

> **YES – Keypad Buzzer**
> *** - Change, 0 - Skip**

YES   When the zone activates an alarm, the keypad buzzer is activated on the keypads that control the areas assigned to the zone.

NO   An alarm on the zone will not trigger the keypad buzzer.

Make all events 24-hour

> **YES – Make All Events 24-Hour**
> *** - Change, 0 - Skip**

YES   All armed and disarmed alarm event flags are triggered when the zone generates an alarm, regardless of the status of the area.

NO   The armed and disarmed alarm flags are triggered depending on the status of the area assigned to the zone.

Trigger event flag 2, armed alarm

> **YES - Event Flag 2, Armed Alarm**
> *** - Change, 0 - Skip**

YES   Event flag 2 is triggered when the zone generates an alarm and the area is armed.

NO   Event flag 2 will not be triggered.

Trigger event flag 3, armed alarm

> **NO – Event Flag 3, Armed Alarm**
> *** - Change, 0 - Skip**

YES   Event flag 3 is triggered when the zone generates an alarm and the area is armed.

NO   Event flag 3 will not be triggered.

Trigger event flag 4, armed alarm

> **NO – Event Flag 4, Armed Alarm**
> *** - Change, 0 - Skip**

YES   Event flag 4 is triggered when the zone generates an alarm and the area is armed.

NO   Event flag 4 will not be triggered.

Trigger event flag 5, armed alarm

> **NO – Event Flag 5, Armed Alarm**
> *** - Change, 0 - Skip**

YES   Event flag 5 is triggered when the zone generates an alarm and the area is armed.

NO   Event flag 5 will not be triggered.

Trigger event flag 6, disarmed alarm

> **NO – Event Flag 6, Disarmed Alarm**
> *** - Change, 0 - Skip**

YES   Event flag 6 is triggered when the zone generates an alarm and the area assigned to the zone is disarmed.

NO   Event flag 6 will not be triggered.

Trigger event flag 7, disarmed alarm

> **NO – Event Flag 7, Disarmed Alarm**
> *** - Change, 0 - Skip**

YES   Event flag 7 is triggered when the zone generates an alarm and the area assigned to the zone is disarmed.

NO   Event flag 7 will not be triggered.

Trigger event flag 8, 24-hr alarm

> **NO – Event Flag 8, 24-Hr Alarm**
> *** - Change, 0 - Skip**

YES   Event flag 6 is triggered when the zone generates an alarm, regardless of the status of the area assigned to the zone.

NO   Event flag 8 will not be triggered.

Trigger event flag 9, armed alarm

> **NO – Event Flag 9, Armed Alarm**
> *** - Change, 0 - Skip**

YES   Event flag 9 is triggered when the zone generates an alarm and the area is armed.

NO   Event flag 9 will not be triggered.

Trigger event flag 10, armed alarm

> **NO – Event Flag 10, Armed Alarm**
> *** - Change, 0 – Skip**

YES   Event flag 10 is triggered when the zone generates an alarm and the area is armed

NO   Event flag 10 will not be triggered.

Trigger event flag 11, armed alarm

> **NO – Event Flag 11, Armed Alarm**
> *** - Change, 0 - Skip**

YES   Event flag 11 is triggered when the zone generates an alarm and the area is armed.

NO   Event flag 11 will not be triggered.

Trigger Zone event flag when active

> **NO – Trigger Zone Event Flag if Active**
> *** - Change, 0 - Skip**

YES   The zone event flag is triggered when the zone is active, regardless of the status of the area assigned to the zone.

NO   The zone event flag is only triggered when the zone generates an alarm.

Trigger camera event flag

> **NO – Camera Event, Program in Area DB**
> *** - Change, 0 - Skip**

YES   The camera event flag programmed in the area database is activated whenever the zone generates an alarm and the area is disarmed.

NO   The camera event flag will not be triggered.

Note: Before the camera event flag can operate, you must program the event flag number in the area database for each of the areas that have cameras that are assigned to the zone. To activate the camera event flag when the area is armed, program all the 24-hour events to YES.

Print zone when active

> **NO – Print Zone When Active**
> *** - Change, 0 - Skip**

YES   Activation of the zone has to be printed or sent to a computer.

NO   Activation of the zone does not have to be printed or sent to a computer.

Engineer walk test

> **YES – Engineer Walk Test**
> *** - Change, 0 - Skip**

YES   Include the zone in the engineer walk test.

NO   Do not include the zone in the engineer walk test.

Double knock

> **NO – Double Knock**
> *** - Change, 0 - Skip**

YES   Configures the zone for double knock functionality.

NO   Does not configure the zone for double knock functionality.

If set to YES and a zone becomes active, two zone timers shall be triggered at the point where the alarm condition would normally be activated. An interval timer is preset with the value contained in the double knock interval and begins counting downwards. A duration timer is preset with the value contained in double knock duration and also counts downwards.

Double knock applies to the following zone types:

- Type 1 — disarmed alarm
- Type 2 — armed alarm
- Type 4 — access alarm
- Type 14 — access alarm (no arm check)

Perimeter zone

> **NO – Perimeter Zone**
> *** - Change, 0 - Skip**

YES   Configures the zone as a perimeter zone.

NO   Configure the zone as an interior zone (default value.)

Zones may be defined as perimeter zones in order to enable arming a perimeter without arming interior zones. This is referred to as stay arming.

If a zone is programmed as an interior zone (perimeter zone = NO), the unseal state of the zone shall be ignored if at least one of the areas assigned to the zone is armed via the STAY key.

When using stay arming, the system immediately arms all requested areas with all perimeter zones supervised and no exit delay. The panel reports the arming state to the central station and logs the arming state to the management software as per normal.

Note: When using stay arming, any entry/exit zone (zone type 3 or 13) programmed as a perimeter zone shall start the entry timer for that area. An alarm is generated if the entry timer expires before the STAY armed area is disarmed.

To use stay arming, a user enters their PIN code followed by pressing the STAY key. The designated STAY key depends on the RAS:

- AL-111x uses the right-hand "—" key (above the OPEN key.)
- AL-110x uses the F2 key.

Installer menu option 9, Communication Options

This option is used to set up the telephone numbers and communication formats for central station reporting. Reporting options can be set for both system and area reporting.

Use the following steps to navigate to the option:

1. Press **[MENU*]** enter **1278** and press **[ENTER]** to access the system menu.

2. Enter **19** and press **[ENTER]** to access menu 19, Installer Programming.

3. Press **[MENU*]** to choose advanced menu.

4. Enter **9** and press **[ENTER]** to access option 9, Communication Options.

Note: To program a YES/NO option, press **[ENTER]** to accept the display or press **[MENU*]** to toggle between YES and NO. Enter **0** to skip options.

PBX number

```
*- Pause, Ph No:
PBX:
```

This feature is used when connection to the PSTN (public switch telephone network) is made via a PBX (public branched exchange) by dialing a number sequence. (For example, you must dial 9 to get an outside line.) This feature should not be used if dial-tone detection is required, as dial-tone detection does not occur during this dial sequence. If dial-tone detection is required the PBX number can be entered in at the central station phone number.

If a 2 second pause "P" is required prior to dialing, press **[MENU*] [MENU*]**

Enter the dialing sequence required and press **[ENTER]**.

To clear a telephone number that has been previously entered, press **[MENU*] [MENU*]**. A "P" will now appear on the lower line of the display and the previously entered telephone number will appear on the top line of the display. Press **[ENTER]** and the number will be cleared.

Note: Do not enter a "T" (wait for dial-tone), as the dial-tone detection does not occur during the PBX dialing string.

MSN

> ***-Pause, Ph No:**
> **MSN:**

For an ISDN dialer, a Multiple Subscriber Number (MSN) can be programmed. This number is sent to the ISDN network by dialing to a computer or central station.

Enter the dialing sequence required and press **[ENTER]**.

Note: Refer to *PBX number* on page 97 for details of how to enter numbers via a RAS keypad. MSNs may not contain characters P and T, but only digits between 0 and 9.

Dial-tone detection

> **CTR21**
> **DT Detection:**

This feature enables or disables dial-tone detection for several types of dial-tones used in various countries. We recommend using "CTR21" the US market. Dial-tone detection will take place at the beginning of the central station dialing string or when a "T" is detected in the dialing string. For example, in the dialing string "9T1234567" dial-tone detection will occur before the 9 is dialed and again before the 1 is dialed.

Enter the number for the dial-tone type and press **[ENTER]**.

Table 12.   dial-tone detection codes

Number	Type
0	Disabled (no dial-tone detection takes place, the panel will dial after a 2-second delay)
1	CTR21
2	Netherlands
3	UK
4	Other

Select tone dialing

> **YES – DTMF Tone Dialing**
> *** - Change, 0 - Skip**

YES   Use tone dialing.

NO   Use pulse dialing

Enable PSTN Line fault monitor

> **YES – Enable PSTN Line Fault Monitor**
> *** - Change, 0 - Skip**

A line monitor will detect if the line voltage on the telephone network is within limits. If not, a telephone line failure will occur.

YES   Enable the line monitor.

NO   Disable the line monitor.

Monitor service tones

> **NO – Monitor Service Tones**
> *** - Change, 0 - Skip**

Do not use. Press **[ENTER]** to go to the next display.

Use three-digit SIA extensions

> **YES – 3-Digit SIA Extensions**
> *** - Change, 0 - Skip**

YES   SIA reporting uses 3-digit zone, point, or user numbers.

NO   SIA reporting uses 2-digit zone, point, or user numbers. (When 2-digit numbers are used, numbers above 99 will be converted to 99.)

ISDN point-to-point

> **NO – ISDN Point to Point**
> *** - Change, 0 - Skip**

YES   Enable point-to-point mode of operation for the plug-in ISDN dialer.

NO   Do not enable point-to-point mode of operation for the plug-in ISDN dialer.

Enable ISDN line fault monitor

> **NO – Enable ISDN Line Fault Monitor**
> *** - Change, 0 - Skip**

YES   The line monitor will detect if the line condition on the telephone network is within limits. If it is not, a telephone line fault condition will be activated.

NO   The line monitor will not detect line condition.

200 baud reverse area armed/disarmed (open/close)

> **NO – 200 Baud Reverse Area Open/Close**
> *** - Change, 0 - Skip**

This option is not applicable to the US market.

X25 TEI value

> **X25 TEI Value-2**
> **Value:**

This option is not applicable to the US market. Press **[ENTER]** to skip.

Audio listen-in time

> **Audio Listen-In Time - 180**
> **Time:**

The actual time of the audio transmission can be manually stopped or extended by the receiver with a range of 10 to 255 seconds.

Enter the total time (seconds) that the panel will transmit audio to the monitoring station and press **[ENTER]**.

Audio listen-in frame time

> **Audio Listen-In Frame Time - 30**
> **Time:**

During transmission the audio is broken into frames or blocks with a range of 10 seconds to audio listen-in time.

Enter the time in seconds for each audio frame and press **[ENTER]**.

Report AC fault

> **Yes - Report AC Fault**
> ***-Change 0-Skip**

YES   AC faults are reported to central station.

NO   AC faults are not reported to central station.

Note: This setting is ignored if *Enable buzzer on AC/line fault* is set to YES in System Options.

Report line fault

> **Yes - Report Line Fault**
> ***-Change 0-Skip**

YES   Line faults are reported to central station.

NO   Line faults are not reported to central station.

This setting is ignored if *Enable buzzer on AC/line fault* is set to YES in System Options.

Enable GSM line fault monitor

> **No - Enable GSM Line Fault Monitor**
> ***-Change 0-Skip**

YES   Enables GSM line fault monitoring.

NO   Disables GSM line fault monitoring.

Select the central station to program

> **Central Station 1..4**
> **CS No:**

Enter the central station number to program and press **[ENTER]**.

If no number is entered, pressing **[ENTER]** will exit this menu.

Select the reporting format

> **Disabled SIA-Large**
> **Format No:**

Every central station can report using a different format.

Enter the number for the reporting format and press **[ENTER]**. Refer *Table 13* on page 103 for reporting format codes.

Table 13.   Reporting format codes (applicable to the US market)

Number	Format
2	DTMF Contact ID – Small
3	DTMF Contact ID – Large
4	SIA – Small
5	SIA – Large
6	X-SIA – Small
7	X-SIA – Large

Note: X-SIA – Small and X-SIA – Large are protocol options. The difference between "small" and "large" is the amount of system events it will report. The large formats will report most system events.

First phone number

```
* - Pause, Ph No:
Ph1:
```

Every central station can report to two telephone numbers, one main and one back-up number.

Enter the main phone number and press **[ENTER]**.

Second phone number

```
* - Pause, Ph No:
Ph2:
```

Every central station can report to two telephone numbers, one main and one backup number.

Enter the backup phone number and press **[ENTER]**.

System account number

```
System Account-
Acc No:
```

Account numbers identify alarm systems reporting to central stations. The system account is used for system events, not linked to an area. Account numbers are 4 to 6 digits long. If no system reporting should be made, use 0000 for the system account number.

Enter the system account number and press **[ENTER]**.

Area account numbers

```
* - Next, Area 1 Account-
Acc No:
```

Account numbers are 4 to 6 digits long. If no reporting should be made for an area, program 0000 as the account number.

Enter account number for Area 1 and press **[ENTER]**.

Repeat for areas 2 through 16.

BELL modem

```
YES – Bell Modem
* - Change, 0 - Skip
```

YES   Use BELL modem tones for SIA reporting (recommended.)

NO   Use CCITT modem tones for SIA reporting.

Dual reporting

```
NO – Dual Tel: Line Reporting
* - Change, 0 - Skip
```

YES   Use dual reporting (an acknowledgement should be received from both phone numbers.)

NO   Use normal reporting.

Allow audio listen-in

> **NO – Listen-In**
> *** - Change, 0 - Skip**

YES   Allow audio listen-in.

NO   Do not allow audio listen-in.

Disable reporting bypass

> **NO – Disable Reporting Bypass**
> *** - Change, 0 - Skip**

YES   Bypasses will not be reported.

NO   Bypasses will be reported.

Reserved

> **NO – Reserved**
> *** - Change, 0 - Skip**

This option is not applicable to the US market.

XSIA maximum characters

> **16-XSIA Max. Characters 16**
> *** - Change, 0 - Skip**

The maximum number of characters that can be sent to the XSIA can be programmed as the first 16 or the first 30 characters.

Press **[ENTER]** to accept the display.

Press **[MENU*]** to toggle between 16 and 30.

X25 account code

> **X25 Account Code**
> **Acc. Code:**

This option is not applicable to the US market. Press **[ENTER]** to skip.

X25 line type

> **X25 Line Type - 0**
> **Value:**

This option is not applicable to the US market. Press **[ENTER]** to skip.

Connection type

> **PSTN**
> **Conn Type:**

Enter the number for the connection type and press **[ENTER]**.

Table 14.   Connection type codes

Number	Format
0	PSTN
1	ISDN
2	ISDN-D
3	GSM
4	Universal Interface

Suppress FTC For voice reporting

> **NO- Suppress FTC For Voice Reporting**
> *** - Change, 0 - Skip**

Voice reporting is not applicable to the US market at this time.

Retry count

> **Retry Count: 14**
> **Count:**

Enter the maximum number of retries allowed on each central station. The default is 14 retries.

SIA area modifier

> **NO - SIA Area Modifier**
> *** - Change, 0 - Skip**

Allows the user to send multiple areas O/C using the same account code (as in CID.) It allows identifying more than one area using only one account code. System events are reported using the configured system account number (current behavior) and an area code 0 (see example below.) All area events use area 1 account number.

Examples:

- Nri02/BA12   New event, Area 2, BA on zone 12.
- Nri11/ZR123   New event, Area 11, ZR on input 123.
- Nri00/RR316   New event, power-up

X25 D-bit

> **YES - X25 D-Bit**
> *** - Change, 0 - Skip**

This option is not applicable to the US market.

System menu option 14, Program Users

System menu 14, Program Users, allows users to be deleted, displayed, or created. An authorized user programs user information. However, the default installer user code should be changed by the installer/programmer.

Use the following steps to navigate to the option:

1. Press **[MENU*]**, enter **1278** and press **[ENTER]** to access the system menu.

2. Enter **14** and press **[ENTER]** to access menu 14, Program Users.

> **1 – Delete, 2 – Display, 3 – Create, 4-Total**
> **Option:**

3. Enter **3** (create) and press **[ENTER]**.

> **Create User**
> **User No:**

4. Enter **50** (the installer user number) and press **[ENTER]**.

> **+-View, Alm Grp 6: Master Installer**
> **Alarm Group:**

5. Press **[MENU*]** to list the available alarm groups that can be assigned.

6. Press **[MENU*]** again to scroll through the list.

7. Press **[ENTER]** three times to scroll through options not needed (Door Groups, Floor Groups.)

> **User Name is, (*)-End**
> **Code:**

8. Enter the user name (see *Installer menu option 10, Program Text* on page 15) and press **[MENU*]**.

> **User Name is …**
> **…**

9. Press **[MENU*]** to see the PIN code of the user name displayed.

> **PIN Code: 1278**
> **Code:**

10. Enter the new PIN code (up to 10 digits) and press **[ENTER]**.

> **Confirm PIN Code:**
> **Code:**

11. Enter the new PIN code again and press **[ENTER]**.

> **PIN Code: ….**
> **Code:**

12. Press **[ENTER]** three times to scroll through options not needed.

13. Enter **0** and press **[ENTER]** to exit the menu.

Installer menu option 16, Event to Output

This option links events to outputs. Outputs are available as relay cards (AL-1810 or AL-1811) or open collector outputs (AL-1820.)

Before an event flag actually will activate an output, a number of conditions have to be met:

- The time zone has to be invalid (if programmed.)
- The output logic must define how the output behaves when the time zone is valid.
- The output behavior must be set to normal or inverted.

Use the following steps to navigate to the option:

1. Press **[MENU*]** enter **1278** and press **[ENTER]** to access the system menu.

2. Enter **19** and press **[ENTER]** to access menu 19, Installer Programming.

3. Press **[MENU*]** to choose advanced menu.

4. Enter **16** and press **[ENTER]** to access option 16, Event to Output.

Output number

> **Event To Output**
> **Output No:**

This is the physical number of the output. Each output has a specific number that will identify the output to the control panel. The output number is determined by the address of the device the relay card is connected to.

Enter the output number and press **[ENTER]**.

Event flag number

> **Output 3 Mapped to Event Flag 123**
> **Event Flag:**

An event flag or a time zone activates an output. Enter the event flag number here.

The output follows the event flags during a valid time zone. If event flag number 0 is programmed, the output does not follow any event flag.

Defaults:

- Output 2 (strobe O/P) is linked to Event Flag 2.
- Output 16 (Panel Siren O/P) is linked to Event Flag 1.
- Output 15 (Internal Siren output) is linked to Event Flag 13.
- Output 32, 48, 64, 80, 96, 112, 128, 144, 160, 176, 192, 208 224, 240 (DGP siren outputs) are linked to Event Flag 1.

Enter the event flag number and press **[ENTER]**.

Time zone to control output

> **Output 3 Time Zone 12**
> **Time Zone No:**

The time zone entered controls the times that an output is active or inactive. If a time zone is programmed, it sets the output when the time is valid. The status of the event flag is irrelevant when the time zone is valid. If the time zone is invalid, the output follows the event flag. If no time zone is programmed the output follows only the event flag.

Enter the time zone number and press **[ENTER]**.

Active or inactive during time zone

> **Output 3 Inactive During Time Zone**
> *** - Change**

Active   The output activates when the time zone is valid regardless of the status of the event flag, provided the output is inverted.

Inactive   The output does not activate when the time zone is valid regardless of the status of the event flag, provided the output is inverted. If the time zone is invalid, the output follows the event flag.

Press **[ENTER]** to accept the display choice.

Press **[MENU*]** to toggle between choices.

Invert output

> **Output 3 is NON-Inverted**
> *** - Change**

Inverted   Logic controlling the output is reversed (e.g. if the previous logic determines that the output is to be ON, this setting would change it to OFF.

NON-Inverted The output follows the event flag. If the event flag is active, the output is ON.

Press **[ENTER]** to accept the display choice.

Press **[MENU*]** to toggle between choices.

Custom programming

Custom programming options may be programmed in any order. The following options are described in this section:

See also *Required programming* on page 14 for more options.

Installer menu option 6, Timers

Timers are accurate on ± 1 of the value entered, so a timer set for 20 seconds will end somewhere between 19 and 21 seconds. Therefore, avoid using values of 1 second or 1 minute. If a timer is set to 0, it will not be used.

Note: See *Arming and resetting alarms after regular hours (disarm inhibit)* on page 60 for the programming steps to prevent the disarming of the system after hours but not allow the reset of an alarm.

Use the following steps to navigate to the option:

1. Press **[MENU*]** enter **1278** and press **[ENTER]** to access the system menu.

2. Enter **19** and press **[ENTER]** to access menu 19, Installer Programming.

3. Press **[MENU*]** to choose advanced menu.

4. Enter **6** and press **[ENTER]** to access option 6, Timers.

Alarm/group restrictions disarmed time

> **Alm/Grp Restr.1 Disarmed is (Min) 0**
> **Time:**

Program times (0 to 255 minutes) for alarm group restrictions 1 through 7 for the time they are disarmed. The alarm group restrictions have to be programmed for timed disarm and must be assigned to an alarm group before the time is programmed.

Note: If set to "0", the areas will not rearm automatically. The alarm group restriction time will be overridden by the area disarmed time (if programmed) in the area database.

Enter the time in minutes for alarm group restriction 1 and press **[ENTER]**.

Repeat for alarm group restrictions 2 through 7.

Note: After the disarmed time has expired on alarm group restriction 7, an emergency alarm will be sent to the central station.

The system ignores any value entered for alarm group restriction 8. Do not enter a time, just press **[ENTER]** to go to the next option.

> **Alm/Grp Restr.8 **Not Used****
> **Time:**

Disarm test time

> **Disarm Test Set To (Min) 15**
> **Time:**

Enter the test time available to perform the disarm test (0 to 255 minutes) and press **[ENTER]**.

Arm test time

> **Arm Test Set To (Min) 15**
> **Time:**

Enter the test time avail to perform the arm test (0 to 255 minutes) and press **[ENTER]**.

Warning time

> **Warning Time Set To (Min) 5**
> **Time:**

When alarm group restrictions are used and areas are programmed for timed disarm, a warning will sound (if a warning time is programmed) indicating the areas are about to alarm. Enter the time this warning will sound (0 to 255 minutes) and press **[ENTER]**.

Note: The warning time must always be set for a shorter time than any alarm group restriction disarmed time.

Disarmed alarm delay time

> **Disarmed Alm Delay Time Set To (Sec) 30**
> **Time:**

Enter the delay time (0 to 255 seconds) before an alarm from a delayed disarmed alarm is reported to the central station (the delay time is ignored if another delayed zone type has already been activated) and press **[ENTER]**.

Suspicion time

> **Suspicion Time Is Set To (Sec) 15**
> **Time:**

Enter the time (0 to 255 seconds) that a camera continues to operate after a suspicion zone type has switched to normal state and press **[ENTER]**.

Note: Suspicion time is available for zone types 7, 40, and 47.

Service time available

> **Service Time Is Set To (Min) 30**
> **Time:**

User menu 17 can be used to give access to service technicians. The alarm group for the technician needs time zone 25 to be assigned. When a user enables the service technician, time zone 25 will be valid during the service time. Enter the service time (0 to 255 minutes) and press **[ENTER]**.

Local alarm reminder time

> **Local Alarm Reminder Time (Min) 5**
> **Time:**

Enter the time (0 to 255 minutes) that can elapse between acknowledging a local alarm and a re-alarm occurring, including the audible alert and press **[ENTER]**.

Individual zone test time

> **Individual Test Mode Time (Min) 5**
> **Time:**

Enter the maximum time (0 to 255 minutes) to perform a test on an individual zone, using User menu 12, Test Zone and press **[ENTER]**.

Door unlock time

> **Door(s) Unlock Time (Sec) 5**
> **Time:**

Enter the time (0 to 255 seconds) doors will unlock (using the door event flag) to allow doors to be opened and press **[ENTER]**.

Note: This time value is common for all door event flags from RASes connected to the Alliance system (doors 1 to 16.) Doors 17 to 64 are connected to DGPs that are individually programmed in the DGP.

Testing event flag time

> **Testing Event Flag Time (Sec) 15**
> **Time:**

Enter the time (0 to 255 seconds) the testing event flag is triggered to activate devices in order to perform an arm test and press **[ENTER]**.

Note: The event flag will only be triggered for half the programmed time; the remaining time is used to allow the device to switch back to normal state. The event flag used is preset to 16.

External siren set to

> **External Siren Set To (Min) 15**
> **Time:**

Enter the time (0 to 255 minutes) that the onboard external siren drivers activate and press **[ENTER]**.

Internal siren set to

> **Internal Siren Set To (Min) 15**
> **Time:**

Enter the time (0 to 255 minutes) that the onboard internal siren drivers activate and press **[ENTER]**.

Siren delay set to

> **Siren Delay Set To (Min) 0**
> **Time:**

Enter the delay time (0 to 255 minutes) before the sirens actually activate after an alarm has occurred and press **[ENTER]**.

AC fail delay time

> **AC Fail Delay Time (Min) 5**
> **Time:**

Enter the delay time (0 to 255 minutes) before an AC fail is reported to the central station and press **[ENTER]**. Enter a value of "0" for no delay.

Delay reporting alarms

> **Delay Reporting Alarms for (Sec.) 0**
> **Time:**

The delay time before a burglar alarm (BA) or BA class tamper alarm (TA) is reported to the central station. Can be used to prevent alarm reporting for users that have problems disarming their area in time. After a burglar alarm or input tamper activation, there will be a delay of 20 seconds before the burglar alarm (BA) or BA class tamper alarm (TA) will be reported to the central station. All other (non-BA & non-TA) alarms are reported immediately, without delay.

Enter the delay time (0 to 255 seconds) and press **[ENTER]**.

A to B alarm delay (ACPO)

> **A to B Alarm Delay (ACPO) for (Min) 30**
> **Time:**

This option is not applicable to the US market. Press **[ENTER]** to scroll forward.

Screensaver timeout

> **Screensaver timeout (Sec) 30**
> **Time:**

This option is not applicable to the US market. Press **[ENTER]** to scroll forward.

RAS card & PIN timeout

> **RAS Card & Pin Timeout (Sec) 8**
> **Time:**

Enter the delay time (0 to 255 seconds) between badging the card and entering the PIN code (default is 8 seconds) and press **[ENTER]**.

Double knock interval

> **Double Knock Interval (Min) 2**
> **Time:**

If enabled for a particular zone, Double Knock Interval specifies the maximum permitted time between two pulses (successive unseals) to register an alarm.

If set to zero, an alarm condition is not determined by the interval between two pulses, but determined solely by Double Knock Duration. If Double Knock Duration is also set to zero, then no double-knock filtering is applied to any active zone, and an alarm registers immediately.

Double Knock duration

> **Double Knock Duration (Sec) 10**
> **Time:**

If enabled for a particular zone, Double Knock Duration specifies the maximum permitted time a zone may remain active. If the time for which a zone remains active exceeds the permitted time, an alarm condition is registered.

If set to zero, an alarm is not generated by prolonged activation, but is determined solely by Double Knock Interval. If Double Knock Interval is also set to zero, then no double-knock filtering is applied to any active zone, and an alarm registers immediately.

Installer menu option 7, System Options

System options are common to the complete system.

Use the following steps to navigate to the option:

1. Press **[MENU*]** enter **1278** and press **[ENTER]** to access the system menu.

2. Enter **19** and press **[ENTER]** to access menu 19, Installer Programming.

3. Press **[MENU*]** to choose advanced menu.

4. Enter **7** and press **[ENTER]** to access option 7, System Options.

Note: To program a YES/NO option, press **[ENTER]** to accept the display or press **[MENU*]** to toggle between YES and NO. Enter 0 to skip options.

Areas selected for total disarm

> **No Areas Selected to Total Disarm**
> **Disarm Areas:**

The 24-hour zone input types (disarmed alarm or emergency door) can be completely disarmed using this option. If the areas entered here are disarmed, 24-hour zone input types are bypassed. For best results, assign a common area to the 24-hour zone input type (its own are and the area programmed here.) Disarm the programmed area to disable the zone inputs.

Example: Zone input 6 is a sensor in a vault. It is programmed as zone input type 5 (24-hour) and is assigned to areas 1 and 16. Area 16 is programmed for total disarm. When servicing the vault, area 16 will be disarmed. Until area 16 is armed again, zone input 6 will be disabled and the following can occur:

If area 1 is:	and area 16 is:	Then zone 6 behavior is:
armed	armed	Normal operation (as programmed zone input type).
disarmed	armed	Normal operation (as programmed zone input type).
armed	disarmed	Zone input disabled (except for tamper).
disarmed	disarmed	Zone input disabled (except for tamper).

Note: When using this option, make sure the areas programmed for total disarm can only be disarmed under correct conditions.

Enter the areas to disarm and press **[ENTER]**.

Film low level

> **Film Low is Set to 0800**
> **Film Level:**

Enter the film frame count number needed to send a film low report to the central station and press **[ENTER]**. This is used for video or still cameras.

Note: Relates to zone input types 23 to 26 and 36 to 39 (camera count.)

Film out level

> **Film Out is Set to 1100**
> **Film Level:**

Enter the film frame count number needed to send an out-of-film report to the central station and press **[ENTER]**.

Note: Relates to zone input types 23 to 26 and 36 to 39 (camera count.)

Test mode

> **1, Enable Auto Test**
> **Option:**

The test mode determines if, or when, arm or disarm tests have to be performed. The test mode option selected does not affect manual testing of any individual zone input.

See also *Test option* on page 89 for related programming.

Enter the number for the test mode (see *Table 15*) and press **[ENTER]**.

Table 15. Test modes

Number	Option	Function
0	No Test	No automatic tests. A disarm test can be performed using User Menu 13.
1	Enable Auto Test	The disarm or arm test starts automatically when the system is disarmed or armed.

Table 15.   Test modes

Number	Option	Function
2	Manual Disarm Test/Auto Arm Test	The arm test starts automatically when the system is armed. The disarm test can only be done using User Menu 13.
3	Auto Disarm Test Only	The disarm test starts automatically when the system is disarmed. No arm test is available.

Note: For the auto disarm test to operate, the areas containing the zone inputs to test have to be programmed as vaults.

Output controllers

> **Number of Output Controllers: 0**
> **How Many:**

Enter a number from 1 to 32 for the number of output controllers that are fitted to the main control panel (do not enter values for output controllers fitted to DGPs) and press **[ENTER]**.

Enter **0** if there is no output controller fitted, or if there is one 4-way relay fitted, and press **[ENTER]**.

An output controller has 8 outputs available.

Zone input event text

> **Zone Text: 103, Gate**
> **Text No.**

When zone input types 57 and 58 are active, this zone event text will be displayed on LCD keypads. The text is taken from the text word library or the list of programmed text. The zone event text only displays when the zone inputs are active.

Enter the text word reference number and press **[ENTER]**.

Alarm code prefix

```
No Alarm Code Prefix
No Digits:
```

The alarm code prefix enables user codes to be used for both access control and alarm control. The prefix indicates the number of digits that have to be entered to have alarm control. If those digits are not entered, only access can be performed.

Example: If the alarm code prefix is two digits and a user's PIN code is 123456, then you would enter 123456 for alarm control or 3456 for access control.

Enter the number of digits (one to four) for the alarm code prefix and press **[ENTER]**.

Note: The minimum PIN code length is 4 digits. The total length of a user's PIN code is 4 plus the alarm code prefix (one to four.)

LCD text rotation delay

```
LCD Rotation Delay is 0
Time:
```

The time delay before the text on the LCD display starts rotating can be changed. The default value is 0, which is equal to 8 in the table below.

1 - 7   Increases the time before text rotation starts

8   Default value (0)

9 - 15   Decreases the time before text rotation starts

Enter the value for the delay change and press **[ENTER]**.

LCD text rotation speed

> **Rotate Speed is 0**
> **Time:**

The speed the text on the LCD display rotates can be changed. The faster the speed the harder it is to read, but if the speed is too slow long texts can take too long to show. The default value is 0, which is equal to 8 in the table below.

1 - 7   Increases the text rotation speed

8   Default value (0)

9 - 15   Decreases the text rotation speed

Enter the value for the speed change and press **[ENTER]**.

Dual zone enabled

> **NO – Dual Zone**
> *** - Change, 0 - Skip**

The following example is based on a system that uses 4.7 kohm end-of-line (EOL) resistors. See *End-of-line resistor code* on page 134 for details.

For dual zone inputs to operate, every zone input must have two resistors of 4.7 kohms to enable the panel to detect whether a zone input is in normal state, is active, or is tampered. EOL resistors must be connected to the zone input.

YES   Dual zone is used: normal = 4.7 kohms, active = 2.35 kohms or 9.4 kohms, tamper = open or shorted.

NO   No dual zone: normal = 4.7 kohms, alarm = open or shorted or 2.35 kohms or 9.4 kohms.

Automatic unbypass

> **YES – Auto Unbypass When Area Disarmed**
> *** - Change, 0 - Skip**

YES   Zone inputs in normal state and bypassed are unbypassed when any of the areas assigned to the zone inputs are disarmed.

NO   Zone inputs in normal state and bypassed are not unbypassed when any of the areas assigned to the zone inputs are disarmed.

Display zones

> **NO – Display One Zone at a Time**
> *** - Change, 0 - Skip**

YES   One zone input at a time is displayed even though there may be more than one in the list of zone inputs to be displayed (the user must scroll through the zone inputs.)

NO   Zone inputs are displayed as a list of numbers and it is necessary to select the zone input number to display the zone input name.

User name file

> **YES – User Name File**
> *** - Change, 0 - Skip**

YES   Prompts for programming a user name are displayed when programming user codes.

NO   Prompts for programming a user name are not displayed when programming user codes.

Note: Only users 1 to 200 can have a name with their PIN code.

System alarms activate siren and strobe

> **YES – System Alarms Set Siren & Strobe**
> *** - Change, 0 - Skip**

YES   The dedicated tamper zones on the Alliance control panel and the DGPs activate the siren and strobe when in alarm.

NO   The system alarms report and activate event flags only.

Latching system alarms

> **YES – Latching System Alarms**
> *** - Change, 0 - Skip**

System alarms are RAS/DGP offline, cabinet tamper, siren tamper, AC fail, fuse fail, and low battery.

YES   System alarms latch and require a code to reset.

NO   System alarms automatically reset and report restoral when the alarm condition is no longer present.

Note: If set to YES, ensure that users who have the appropriate authority are assigned an alarm group that has Reset System Alarms set to YES.

Siren testing

> **YES – Test Siren**
> *** - Change, 0 - Skip**

YES   The sirens are tested for three seconds when the arm test is started.

NO   Sirens are not tested when the arm test is started.

Disable 0 ENTER for camera reset

> **NO – Disable 0 ENTER for Camera Reset**
> *** - Change, 0 - Skip**

YES   **0 [ENTER]** cannot be used to stop cameras operating. The cameras continue to operate until an authorized user resets them.

NO   **0 [ENTER]** stops the cameras operating (after pressing **[ENTER] [ENTER]** for the Quick Alarm Log.)

Disable auto insert of alarm group restriction

> **NO – Disable Insert of Alm/Grp Restr.**
> *** - Change, 0 - Skip**

YES   Disables the special procedure for automatically timing on non-vault areas when arming vaults.

NO   Enables the special procedure for automatically timing on non-vault areas when arming vaults, provided all applicable values are programmed.

Reserved (do not use)

> **NO - Reserved**
> *** - Change, 0 - Skip**

Press **[ENTER]** to scroll forward.

Disable PIN code from displaying

> **YES – Disable PIN Code From Displaying**
> *** - Change, 0 - Skip**

YES   PIN codes are not visible (except to master installer.) The display shows "PIN codes cannot be viewed".

NO   PIN codes are visible.

Disable flashing area LEDs

```
NO – Disable Flashing Area LEDs
* - Change, 0 - Skip
```

YES   The area LED will not flash on alarm.

NO   The area LED will flash on alarm.

Two users before programming code

```
NO – Two Users Before Programming Code
* - Change, 0 - Skip
```

YES   Two users are required to enter their PIN codes before access is granted to program users (User 50, Master Code, is not required to have a second code to program users.)

NO   Validation is not needed when entering User menu 14, Program Users.

Display alarms instantly on LCD

```
YES – Display Alarm Instant On LCD
* - Change, 0 - Skip
```

YES   Details of the first alarm are displayed instantly on the LCD arming station. Details of other alarms can be viewed on the LCD arming station by pressing **[ENTER] [ENTER]**.

NO   Details of all alarms can be viewed on the LCD arming station by pressing **[ENTER] [ENTER]**.

Sirens only after fail to report

> **NO – Sirens Only After Report Fail (FTC)**
> *** - Change, 0 - Skip**

YES   Siren event flags are only activated on alarms if the Alliance control panel has failed to report to the central station. Fail to report (FTC) is registered at the end of the fourth dial attempt. The siren activates for the normal siren cut-off time programmed.

NO   Sirens will operate on alarms.

Financial institution options

> **NO – Financial Options**
> *** - Change, 0 - Skip**

There are three special options (generally applicable to financial institution installations):

1.   Film counters are enabled during the disarm test mode.

2.   Alarm group restriction 2, or alarm group restriction 6, disable disarmed alarm zones.

3.   Minimum PIN code length is set to 5 digits.

YES   Enable financial options.

NO   Normal operation.

Display user flags

> **NO – Display User Flags**
> *** - Change, 0 - Skip**

The special user flags are Two Card Function, Guard, Visitor, Trace User, Card Only, Privileged and Extended Access.

YES   The special user flags are displayed in sequence after the floor group display when programming users.

NO   The special user flags are not displayed.

Delayed disarmed alarm lockout

```
NO – Delayed Disarmed Alm Lockout
* - Change, 0 - Skip
```

This option is only applicable to latching delayed disarmed alarms. If set to YES, an alarm can only be canceled if the zone input is in normal state. A latching disarmed alarm is LOCKED OUT until the alarm device is taken out of its latched state (reset.)

YES   Delayed disarmed alarms are locked out until the alarm device is reset.

NO   Delayed disarmed alarms are not locked out.

Zone expansion fitted

```
NO – Zone Expansion Fitted
* - Change, 0 - Skip
```

YES   Zone expanders are fitted on the control panel.

NO   Zone expanders are not fitted on the control panel.

Bypass zone includes tamper

```
NO – Bypass Zone Tamper
* - Change, 0 - Skip
```

YES   When a zone input is bypassed, the tamper is also bypassed and tamper alarms will not occur.

NO   When a zone input is bypassed, the tamper is not bypassed and tamper alarms will still occur.

Report multiple alarms

```
YES – Report Multiple Alarms in Zone
* - Change, 0 - Skip
```

YES   Report multiple alarms as a separate alarm for each alarm that occurs.

NO   Only report the first alarm. Subsequent alarms will not be reported.

Report multiple restores

> **NO – Report Each Restored Multi Alm**
> *** - Change, 0 - Skip**

YES   Report a restore for every alarm that occurs.

NO   Report only one restore for every zone input that generates an alarm.

Engineer reset on system alarms

> **NO – Engineer Reset for System Alarms**
> *** - Change, 0 - Skip**

YES   After a system alarm, an engineer reset is required before a user can arm any area.
See *Installer menu option 51, Engineering Reset* on page 208 for details.

NO   After a system alarm, an engineer reset is not required.

Engineer reset on system tampers

> **NO – Engineer Reset for System Tamper**
> *** - Change, 0 - Skip**

YES   An engineer reset is required on system tampers before a user can arm any area. See
Installer menu option 51, Engineering Reset on page 208 for details.

NO   An engineer reset is not required on system tampers.

Arming without battery

> **YES – Arming Without Battery**
> *** - Change, 0 - Skip**

YES   Enable the system to arm without a battery.

NO   Do not enable the system to arm without a battery.

User can do engineer reset

> **NO – User Can Do Eng. Reset**
> *** - Change, 0 - Skip**

YES   Enables the user or installer to do an engineer reset by entering the Alliance system code computed from the number displayed on the RAS. See *Installer menu option 51, Engineering Reset* on page 208 for details.

NO   The user is not allowed to do an engineer reset, only the installer.

Engineer entry protect

> **NO – Engineer Entry Protect**
> *** - Change, 0 - Skip**

YES   The box tamper is used to protect against unauthorized use of option 19, Installer Programming. After accessing option 19, you must open the box tamper within 120 seconds, during which time the box tamper alarm is disabled. When the installer menu is exited, the installer has 120 seconds to close the box tamper, or the tamper alarm will be activated. .

NO   Option 19, Installer Programming, can be entered without opening the box tamper.

Send arming after exit

> **YES – Send Arming After Exit**
> *** - Change, 0 - Skip**

YES   When armed, an area will defer the reporting of the arming to the central station until the exit time has ended.

NO   When armed, an area will report the arming to the central station immediately.

User offset

> **User Offset Set to 0**
> **Offset:**

The offset is used to report user IDs to management software. The offset is 0 – 65536 (+ or -.) When a user ID is sent to the management software, this offset is added or subtracted. The control panel uses the user ID without offset.

Enter the offset value and press **[ENTER].**

End-of-line resistor code

> **End-Of-Line Resistor Code 1 =4k7 Ohms**
> **Code:**

Enter the number for the end-of-line resistor and press **[ENTER]**.

Table 16.   Connection type codes

Number	Resistor value (kohms)
0	10
1	4.7
2	2.2
3	6.8 or 6.98
4	5.6 or 5.7
5	3.74
6	3.3
7	2
8	1.5

Duress mode

> **Duress Mode 0 =Increment last digit**
> **Mode:**

Duress mode defines the way users's duress codes are entered.

Mode "0" requires users to increment the last digit of their user PIN code by one.

   Example: If a user's PIN code is 1234, their duress code would be 123**5**

Mode "1" indicates no duress code, normal PIN functionality only.

Enter the duress mode and press **[ENTER]**.

Siren type

> **Siren Type 1**
> **Type: Constant DC Voltage**

Enter the number for the siren type and press **[ENTER]**.

Table 17.   Siren type codes

Number	Siren type	Notes
0	Speaker tone	If siren type 0 is selected and the 16th relay is activated, a saw tooth signal is generated at the signal output.
1	Volts on	If siren type 1 is selected and the 16th relay is activated, a constant DC voltage is set at the siren output.
2	Speaker or volts	If siren type 2 is selected, the 12th, 13th, 14th, 15th, and 16th relays are mapped to the siren output. These relays have priority 1 to 5 respectively. S o, for example, relay 12 will have a higher priority than relay 16 when both are active, thus generating a DC voltage at the siren output.

The following happens when the following relays are activated:

   12th relay active = generates constant DC voltage at the siren output.

13th relay active = generates a warble tone at the siren output.

14th relay active = generates a sawtooth tone at the siren output.

15th relay active = generates two tones at the siren output.

16th relay active = generates an inverted sawtooth tone at the siren output .

Bypass alarm report on exit fault

> **YES – Bypass Alm Rpt On Exit Fault**
> *** - Change, 0 - Skip**

YES During the exit time, alarms on zone inputs with reporting codes of 17-24 (burglar alarm) will set a flag to disable further reporting. This is called an "exit fault". When areas are in disarm, this flag is reset. Burglar alarms in exit time will only activate the internal siren.

NO Zone inputs with reporting codes of 17-24 will report alarms when the exit timer is running.

Disable tamper report in disarm

> **NO – Disable Tamper Report In Disarm**
> *** - Change, 0 - Skip**

YES A zone input tamper/restore will not report to the central station if the assigned areas are disarmed. If the tamper occurs when the areas are armed, it will report and send the restores when the areas are disarmed.

NO A zone input tamper/restore will report to the central station if the assigned areas are disarmed.

Bypass external siren and strobe for disarm tamper

> **YES – Bypass Ext Siren & Strobe in Disarm…**
> *** - Change, 0 - Skip**

YES   Zone input tampers will only activate the internal siren if the areas are disarmed. System tampers operate similarly, except that all areas are disarmed.

NO   Zone input tampers will activate the internal siren and the external siren and strobe.

AL system code

> **AL System Code**
> **Code: 00000**

If the system code is 00000, the old algorithm is used to calculate the engineering reset code. If not, the system code value and the engineering code value are used in a special calculation to generate the reset code.

Enter the system code and press **[ENTER]**.

Soak test days

> **Days for Soak Test 7**
> **Days:**

If soak testing is enabled (see *Enable soak test* on page 87), enter the number of days (0 – 255) for the soak test period and press **[ENTER]**.

ACPO 2002

> **NO – ACPO 2002**
> *** - Change, 0 - Skip**

This option is not applicable to the US market.

EE confirm disable (ACPO 2002)

> **NO – EE Confirm Disable (ACPO 2002)**
> *** - Change, 0 - Skip**

This option is not applicable to the US market.

Engineer reset on B alarm only

> **NO – Eng. Reset on B Alarm Only**
> *** - Change, 0 - Skip**

This option is not applicable to the US market.

NFA2P

> **NO – NFA2P**
> *** - Change, 0 - Skip**

This option is not applicable to the US market.

Installer dual code

> **NO – Installer Dual Code**
> *** - Change, 0 - Skip**

YES   A second user code must be entered before access to the installer menu is granted. The second code must be a valid user code with alarm system control, but no access to the installer menu.

NO   Normal operation.

Enable buzzer on AC/line fault

> **NO – Enable Buzzer on AC/Line Fault**
> *** - Change, 0 - Skip**

YES   Keypad buzzer will be sounded when there is a AC/line fault.

NO   Only the LED will flash when there is a AC/line fault.

Enable "Call Central Station"

> **NO – Enable "Call Central Station"**
> *** - Change, 0 - Skip**

Informs the central station in the event of opening or closing faults. In case of a burglar alarm or tamper activation, and when the "delay reporting alarms" timer has expired, the user will be informed after disarming by the text "Call Central Station" on the LCD if the reporting to the central station was successful.

This displayed message "Call Central Station" shall only be displayed for 30 seconds, and is displayed only on RASes linked to the areas that went into alarm. The user can decide to call the central station to inform the status (i.e. on opening or closing faults.)

Exceptions:

- This text will not appear after reporting PANIC, HOLD-UP Alarms (HA) reports or disarming by a Duress PIN-code.
- Also when a LINE FAULT is concurrently active, this text will not appear.

YES   Enables "Call Central Station" functionality.

NO   "Call Central Station" functionality is not used.

Scandinavian indicators

> **NO – Scandinavian Indicators**
> *** - Change, 0 - Skip**

This option is not applicable to the US market.

Enable log limitation

> **NO – Enable Log Limitation**
> *** - Change, 0 - Skip**

YES   Limits the number of times an input can log and report a change of state event within the same arm/disarm cycle. A limit of three times has been set.

        Input types 6, 7, 9, 12, 16, 18, 19, 20, 23 to 27, 31, 32, 34 to 39, 57, 58, and 65 are excluded from log limitations. These types are generally associated with access control, or have a special function, and are not associated with the normal alarm functionality.

NO   Log limitation is not used.

Indicate bypassed zones

> **NO – Indicate Bypassed Zones**
> *** - Change, 0 - Skip**

YES   Alerts the system user at the RAS with an optical and audible indication that zones are bypassed in an area that is being armed. The bypassed zones are listed and the user prompted with the option whether to arm the system or not.

NO   Bypassed zones are not indicated.

Assign area

> **No Area Assigned**
> **Confirm Area:**

This option is not applicable to the US market. Press **[ENTER]** to skip.

Engineer reset on ACPO zone B tamper

> **NO – Eng Rst on ACPO Zone B Tamper**
> *** - Change, 0 - Skip**

This option is not applicable to the US market.

Engineer reset on ACPO system B tamper

> **NO – Eng Rst on ACPO System B Tamper**
> *** - Change, 0 - Skip**

This option is not applicable to the US market.

Installer menu option 8, Auto Reset

This option is used to automatically reset alarms from an Alliance control panel.

Use the following steps to navigate to the option:

1. Press **[MENU*]** enter **1278** and press **[ENTER]** to access the system menu.

2. Enter **19** and press **[ENTER]** to access menu 19, Installer Programming.

3. Press **[MENU*]** to choose advanced menu.

4. Enter **8** and press **[ENTER]** to access option 8, Auto Reset.

Auto reset time

> **Auto Reset Disabled**
> **Time (Mins):**

Enter the amount of time (0 –255 minutes) that elapses between the alarm occurring and reset and press **[ENTER]**.

Reset alarm group

> **Reset Alm-Grp:35, Low Priority Areas**
> **Alm-Grp:**

An alarm group tells the control panel which areas to auto reset.

Enter the code for the alarm group and press **[ENTER]**.

Installer menu option 11, Version Number

This option displays the version information for the control panel, the RASes, and the DGPs.

Use the following steps to navigate to the option:

1. Press **[MENU*]** enter **1278** and press **[ENTER]** to access the system menu.

2. Enter **19** and press **[ENTER]** to access menu 19, Installer Programming.

3. Press **[MENU*]** to choose advanced menu.

4. Enter **11** and press **[ENTER]** to access option 11, Version Number.

Select the device for version information

```
Version  1-AL CP  2-RAS  3-DGP
0 – Exit Menu:
```

Enter the number for the device type and press **[ENTER]**.

Table 18.   Device type codes

Number	Device	Information
1	Control panel	Copyright information Alliance panel type Eprom version Options available Build date Language CPLD Version
2	RAS	Type of RAS and version information
3	DGP	Type of DGP and version information

Press **[ENTER]** to scroll between different information for the same device.

Note: Version information may be needed when requesting help from technical support.

Installer menu option 12, Lamp Test

This option tests all LEDs in the system, including LEDs on arming stations, card readers, etc.

Use the following steps to navigate to the option:

1. Press **[MENU*]** enter **1278** and press **[ENTER]** to access the system menu.

2. Enter **19** and press **[ENTER]** to access menu 19, Installer Programming.

3. Press **[MENU*]** to choose advanced menu.

4. Enter **12** and press **[ENTER]** to access option 12, Lamp Test.

LED test

> **LED Test is Off**
> **Enter Code:**

Enter a valid user PIN code and press **[ENTER]** to change the display from OFF to ON. Repeat to change the display back to OFF.

Press **[ENTER]** to exit the LED Test option.

Note: Be sure that the display shows "OFF" before exiting the option.

Installer menu option 14, Defaults

Use the following steps to reset the control panel to factory defaults:

1. Press **[MENU*]** enter **1278** and press **[ENTER]** to access the system menu.

2. Enter **19** and press **[ENTER]** to access menu 19, Installer Programming.

3. Press **[MENU*]** to choose advanced menu.

4. Enter **14** and press **[ENTER]** to access option 14, Defaults.

> **99-All, 98-Std, 97-Output/Groups, 95-Software IUM Option:**

Enter the number for the default type and press **[ENTER]**.

Table 19.   Default options

Number	Action
99	Resets all the system records to the factory default. All programming is erased.
98	Defaults only the following Installer Programming Menu options: • Area Database • Alarm Groups (11-29) • Timers • System Options • Auto Reset • Time Zones • Alarm Group Restrictions • Auto Arm/Disarm • Areas Assigned to Vaults • Area Linking • Time Zone to Follow Output
97	Resets the event to output records, the door and floor groups
95	Applies software IUM settings to the panel. See *Software IUM* on page 146 for details.
999 *This option is not displayed.*	Resets the panel without altering any programming. This option is similar to removing and reapplying power to the system. Can be useful when macros or dialer are not functioning correctly.

Software IUM

IUM is short for intelligent user memory, which refers to 4 MB or 8 MB memory expansion modules used optionally in Alliance system hardware. These memory expansion modules are referred to as hardware IUM.

Software IUM is a programmable configuration for panels that do not have 4 MB or 8 MB hardware IUM. Software IUM enables all users to be IUM users (i.e. with 10-digit PIN codes and up to 48 bits of raw card data). The number of users depends on whether the panel has 1 MB expanded memory:

- Panels without memory expansion can have 50 IUM users.
- Panels with 1 MB expanded memory can have 2000 IUM users.

The software IUM setting may be programmed via *Installer menu option 14, Defaults* on page 145.

Installer menu option 15, Alarm Group Restrictions

Alarm group restrictions define alarm group functions for areas in alarm groups. The combination of alarm group and alarm group restriction provides alarm control to a user.

An alarm group is only restricted if a restriction is programmed. The restriction is only applicable if the area from the alarm group restriction is also in the alarm group. Areas that are not in the alarm group restriction, but are available in the alarm group, do not have any restriction.

Example 1

Situation: Cleaners are only allowed to arm/reset area 1, 2, and 3. They are not allowed to disarm these areas. However they are allowed to arm and disarm area 4 without restrictions.

Required programming: An alarm group is programmed with areas 1 through 4 and alarm group restriction 1. Alarm group restriction 1 has arm/reset only for areas 1, 2, and 3.

Example 2

Situation: A security guard has permission to disarm areas 3, 4, and 5. After 15 minutes, the areas should automatically rearm.

Required programming: An alarm group is programmed with areas 3, 4, and 5 and alarm group restriction 3. Alarm group restriction 3 has areas 3, 4, and 5 for timed disarm. In timers, the disarmed time is programmed for 15 minutes.

Application

Alarm group restrictions may be used in the following ways:

- **Timed disarm of areas** — The timed disarm option applies to areas assigned to an alarm group and programmed as "timed disarm areas" in the alarm group restriction option.
- **Arm/reset areas** — Only arm/reset functions apply to areas assigned to an alarm group and programmed as Areas to Arm/Reset in alarm group restriction option. When a user enters a code, it arms the programmed areas, regardless of any timers running (but cannot disarm), or it resets alarms in the programmed areas.
- **Timed disarm and arm/reset** — Both time disarm and arm/reset functions apply to areas assigned to an alarm group and programmed both as timed disarm areas and areas to arm/reset. When a user enters a code, all the timed disarm functions apply, except when reentering a code the arm/reset function applies and the system is armed regardless of any timers running.
- **No alarm group restriction assigned** — Areas assigned to an alarm group, but not included in the alarm group restriction option, have standard alarm system control functions as specified in the alarm group.

Additional things to consider are:

- Program the length of time that the timer runs in *Installer menu option 6, Timers* or *Installer menu option 2, Area Database*. If the timer is set to zero, the alarm group restriction does not time out. The alarm group restrictions function the same way, except a timer does not run and therefore does not arm areas on expiration.
- Program the warning time that appears on the display and sound an audible alert in *Installer menu option 6, Timers*.
- Assign the alarm group restriction to alarm groups in *Installer menu option 5, Alarm Groups*.
- Users cannot operate alarm group restrictions unless the arming station they are using has the same alarm group restrictions in its alarm group.

Alternate alarm group restrictions

As stated in *Alternate alarm group* on page 60 is possible to have alternate alarm groups. The alternate alarm group is used when the original alarm group is not available due to an invalid time zone. When an alternate alarm group is active and has an alarm group restriction, the alternate alarm group restriction is used.

For example, alarm groups 31, 32, and 33 have been programmed with the following values:

	Alarm group number		
Alarm group option:	31	32	33
• Area	1, 2	1, 2	1
• Alarm group restriction	4	4	4
• Time zone	1	2	0
• Alternate alarm group	32	33	1 (=none)

Alarm group 31 is assigned to user 1.

Alarm group restriction 4 is programmed with the following values:

Alarm group restriction option:	Standard	First alternate	Second alternate
• Timed disarm area	-	2	1
• Arm/Reset area	2	-	-

This example is depicted in *Figure 2* on page 150.

Figure 2.   Illustration of alarm group restriction application for user 1
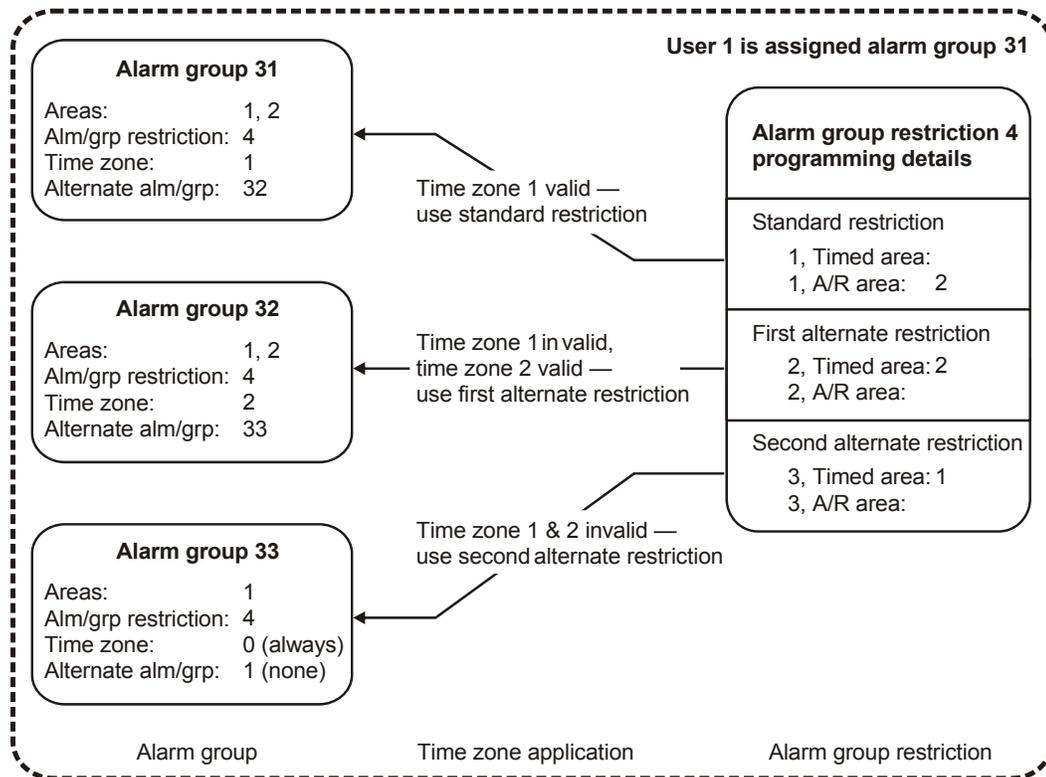
The effect of theses alarm groups and alarm group restriction is as follows:

- **When time zone 1 is valid** — This is the standard restriction for user 1, and it applies alarm group 31 and alarm group restriction 4. When used as standard, alarm group restriction 4 provides full control for area 1, but is limited to arm and reset control for area 2.
- **When time zone 1 is invalid but time zone 2 is valid** — This is the 1st alternate restriction for user 1, and it applies alarm group 32 and alarm group restriction 4. When used as first alternate, alarm group restriction 4 provides full control over area 1, but is limited to timed disarm for area 2.

- **When time zone 1 and 2 are invalid** — This is the second alternate restriction for user 1, and it applies alarm group 33 and alarm group restriction 4. When used as second alternate, alarm group restriction 4 provides timed disarm for area 1. There is no control over area 2 because area 2 is not assigned to alarm group 33.

Programming alarm group restrictions

Use the following steps to navigate to the option:

1. Press **[MENU*]** enter **1278** and press **[ENTER]** to access the system menu.
2. Enter **19** and press **[ENTER]** to access menu 19, Installer Programming.
3. Press **[MENU*]** to choose advanced menu.
4. Enter **15** and press **[ENTER]** to access option 15, Alarm Group Restrictions.

Alarm group restriction number

> **Alarm Group Restriction**
> **Restr No:**

Enter the number for the alarm group restriction and press **[ENTER]**.

Table 20.   Alarm group restrictions

Number	Application	Operation
1 to 6	Used when disarming the programmed areas and a timer starts running.	The areas arm again when the timer has expired unless other timers are still running. Users can arm the area by reentering their code, provided the display does not show "Ending". If other timers are running and the code is reentered, the individual alarm group restriction is cleared but the area is not armed. Users can extend the timer by reentering their code when the display shows "Ending" for their alarm group restriction. A buzzer sounds as a warning when the timer is running out and the area is about to arm.
7	Emergency — special function for security guards who need to check in at intervals	The same as alarm group restrictions 1 to 6, except that when the timer expires and the areas rearm, an "emergency" message is reported to the central station.

Table 20.   Alarm group restrictions

Number	Application	Operation
8	Counter — special function for user count for each area	When the users enter their code to rearm, the user count for each area decreases by one.
		The display always shows the user count.
		The area can be armed by the users by reentering their code to arm, provided the user count for each of the areas to be armed is down to 1 before the code is entered.
		Timers do not operate for alarm group restriction 8.
		Can count a maximum of 255 users per area.

Alarm group restriction name

> **Restriction Name: 0352, Cleaner**
> **Text No:**

Enter the reference number (from the text library or programmed text list) for the alarm group restriction name and press **[ENTER]**.

Timed disarm area

> **1, 2, 3, 6, 7,**
> **1, Timed Area:**

When a user enters a code, the programmed areas are disarmed and a timer starts running. In order for the function to be enabled, the areas listed in this option must also be listed in the alarm group to which the alarm group restriction is assigned and alarm system control must be enabled.

The number 1 on the bottom line indicates that you are programming the standard restriction. Enter the area number and press **[ENTER]**.

Areas to arm/reset

```
1, 2, 3, 4, 5,
1, A/R Area:
```

When a user enters a code, the programmed areas are armed or alarms are reset. In order for the function to be enabled, the areas listed in this option must also be listed in the alarm group to which the alarm group restriction is assigned and alarm system control must be enabled.

The number 1 on the bottom line indicates that you are programming the standard restriction.

Enter the area number and press **[ENTER]**.

First alternate timed disarm area

```
9, 10,
2, Timed Area:
```

The number 2 on the bottom line indicates that you are programming the first alternate restriction.

Enter the area number and press **[ENTER]**.

First alternate areas to arm/reset

```
9, 10,
2, A/R Area:
```

The number 2 on the bottom line indicates that you are programming the first alternate restriction.

Enter the area number and press **[ENTER]**.

Second alternate timed disarm area

```
12,
3, Timed Area:
```

The number 3 on the bottom line indicates that you are programming the second alternate restriction.

Enter the area number and press **[ENTER]**.

Second alternate areas to arm/reset

```
12,
3, A/R Area:
```

The number 3 on the bottom line indicates that you are programming the second alternate restriction.

Enter the area number and press **[ENTER]**.

Installer menu option 17, Auto Arm/Disarm

Time zones are used to automatically arm and/or disarm areas. Areas being armed or disarmed automatically do not require any user action.

Use the following steps to navigate to the option:

1. Press **[MENU*]** enter **1278** and press **[ENTER]** to access the system menu.

2. Enter **19** and press **[ENTER]** to access menu 19, Installer Programming.

3. Press **[MENU*]** to choose advanced menu.

4. Enter **17** and press **[ENTER]** to access option 17, Auto Arm/Disarm.

Auto arm/disarm program

> **Auto Arm/Disarm**
> **Program No:**

Each combination of a time zone and an alarm group is called a program. There are 16 programs, one for each possible area. A different program must be completed for each area, or set of areas where a different function is required.

Enter the program number (1 to 16) and press **[ENTER]**.

Time zone to arm/disarm

> **Pgm: 1 Time Zone 2**
> **Time Zone No:**

Enter the time zone number to be used for automatic arming/disarming and press **[ENTER]**. When the time zone becomes valid (at the start time) the area disarms. When the specific time zone expires (at the end time) the areas arm.

Alarm group to auto arm/disarm

> **Pgm: 1 Alm-Grp: 14-Area One**
> **Alm-Grp:**

The alarm group determines which areas are automatically armed or disarmed and if the specified areas are to be automatically armed, disarmed, or both. If an alarm group restriction is linked to the alarm group, the automatic arming can be postponed by a preset time.

Enter the alarm group number and press **[ENTER]**.

The settings in the alarm group determine the operation of this function. The function follows the rules of the alarm group regarding alarm control. For example:

- If the alarm group setting for Arm and Reset Only is set to YES, then the areas assigned will only automatically arm.
- If the alarm group setting for Disarm Only is set to YES, then the assigned areas will only automatically disarm.
- If the alarm group setting for any alarm group restriction is set to YES, then a user can extend the time that the areas are disarmed for a specified period.

When programming alarm groups, a time zone can be assigned to the alarm group to specify when the alarm group is valid. The alarm group assigned to an arm/disarm timer program does not require a time zone in the alarm group.

Using alarm group restrictions with auto arm/disarm

Users can postpone the time that the areas will arm by entering their code (or presenting their card) during "warning time". Link an alarm group restriction to the alarm group for the areas to postpone by setting Timed Disarm Areas.

Program the following items to achieve this function:

1. An alarm group restriction must be programmed with the areas required to timed disarm. The areas must also be included in the same alarm group as the alarm group restriction.

2. The same alarm group restriction must be set to YES in:

   - The alarm group used in the arm/disarm timer programmer
   - The alarm group assigned to the arming station or door reader where the user is required to perform the function.

- The alarm group assigned to the user who will perform the function.

3. The required times must be programmed in Timers:

   - Alarm/Group Restriction 1 Disarmed Time (the time that the automatic arming will be postponed.)
   - Warning Time (the time that the warning sounds on the keypad buzzer before the area automatically arms. The code/card must be presented during the warning period to postpone the automatic arming.)

4. If a separate warning beeper needs to be activated from an output, link the output to the warning timer event flag that is programmed in the area database for the area specified in the alarm group restriction.

5. Ensure that the alarm group restrictions are also assigned to the alarm group for the users and arming stations.

Installer menu option 18, Vaults

Vault areas are areas that will automatically arm other areas after a preset time after they are armed. Users that have the vault areas in their alarm group, arm the vault areas. The time starts only if all vault areas are armed. Users do not need to have alarm control over the areas that are automatically armed.

By using a special programming procedure, an alarm group restriction timer starts when all the vault areas are armed. When the timer expires, a non-vault area linked to the vault areas will automatically arm.

Example: A building has three office areas (areas 3, 4, and 5), a common foyer (area 1) and a common cafeteria (area 2.) Assigning the office areas as vaults allows the foyer and the cafeteria to be armed at a set time after the last office is armed.

Other programming needed:

- Areas (3, 4, and 5) must be assigned to vaults on this option.
- Set Disable Auto Insert of Alarm Group Restriction to NO in *Installer menu option 7, System Options*.
- The areas to be timed on (1 and 2) must belinked to the areas designated as vaults in *Installer menu option 19, Area Linking* (areas 1 and 2 linked to areas 3, 4, and 5.)
- The linked areas not assigned as vaults (area 1 and 2) must be included in an alarm group restriction to Timed Disarm Areas in *Installer menu option 15, Alarm Group Restrictions*.
- The delay time required for the areas to arm must be programmed as Alarm Group Restriction Disarmed Time in *Installer menu option 6, Timers*. Use the same alarm group restriction as above.
- The alarm group restriction is then inserted into the necessary alarm groups to enable the function to be used. The alarm group must include the area assigned to the alarm group restriction for the restriction to operate.

Use the following steps to navigate to the option:

1. Press **[MENU*]** enter **1278** and press **[ENTER]** to access the system menu.

2. Enter **19** and press **[ENTER]** to access menu 19, Installer Programming.

3. Press **[MENU*]** to choose advanced menu.

4. Enter **18** and press **[ENTER]** to access option 18, Vaults.

> **2, 3, 4**
> **Area:**

Enter the areas numbers assigned to vaults and press **[ENTER]**.

Installer menu option 19, Area Linking

In a facility with multiple areas, the entrance to the facility is usually shared by all areas. This shared area (common area) should only be armed when the last area is armed. The simplest way to have a common entrance is by assigning multiple areas to a zone. This zone will only generate an alarm if all assigned areas are armed. The longest exit and entry time will be used.

Another way to create common areas is by using a dedicated area. By linking the other areas to this area, the area will arm automatically when the last (linked) area is armed. As soon as the first area disarms, the common area will also disarm. Using linked areas, the common area can also be disarmed on its own. It has a separate entry and exit time and reporting is selectable. It can have separate event flags.

Example: If area 1 is a foyer and is linked to areas 2, 3, and 4, then:

- When any of the linked areas (2, 3, or 4) are disarmed, area 1 will be disarmed.
- When all of the linked areas (2, 3, and 4) are armed, area 1 will be armed.

Linked areas also have control over the common area (if programmed in the alarm group)

Example: If area 1 is linked to areas 2, 3, and 4, then a user with area 3 can reset an alarm in area 1.

Use the following steps to navigate to the option:

1. Press **[MENU*]** enter **1278** and press **[ENTER]** to access the system menu.

2. Enter **19** and press **[ENTER]** to access menu 19, Installer Programming.

3. Press **[MENU*]** to choose advanced menu.

4. Enter **19** and press **[ENTER]** to access option 19, Area Linking.

> **Area Linking**
> **Common Area:**

Enter the common area number and press **[ENTER]**.

> **Area 1: 2, 3, 4**
> **Area to Link:**

Enter the area numbers to be linked to the common area and press **[ENTER]**. Remove linked areas by entering the areas numbers again.

Installer menu option 20, System Codes

Alliance control panels support up to two different system codes (sometimes referred to as "site codes" or "facility codes") for use with Alliance 1-door RASes. Each system code also provides an option to offset the card ID for easier programming. The system code is unique.

Note: The AL-1255 4-Door DGP and the AL-1265 4-Elevator DGP do not require this setting to be programmed in the control panel. It is programmed in the DGP using *Installer menu option 28, To Remote Device.*

Use the following steps to navigate to the option:

1. Press **[MENU*]** enter **1278** and press **[ENTER]** to access the system menu.

2. Enter **19** and press **[ENTER]** to access menu 19, Installer Programming.

3. Press **[MENU*]** to choose advanced menu.

4. Enter **20** and press **[ENTER]** to access option 20, System Codes.

System code 1

> **System Code 1: 004346**
> **SysCode:**

The system code is unique to the reader device and card range. The system code normally has 6 digits, if less than 6 digits are provided, add leading zeros to the number.

Enter the first system code and press **[ENTER]**.

Card offset 1

> **Cards Offset 1: + 0**
> *** - Change, No:**

This option is used to specify the number to be added or subtracted from the actual card ID number for cards in System Code A. The Alliance control panel will calculate the user number as follows:

User number = card ID + (or -) card offset

The calculated user number is used for programming the user and when reporting events to the central station or the computer.

Example: The card offset is programmed as –5000. The actual card ID number is 5001. The card will be programmed as user 1, and will report as user 1.

Press **[MENU*]** to toggle the offset between + and −.

Enter the card offset required and press **[ENTER]**.

System code 2

> **System Code 2: 005678**
> **SysCode:**

Enter the second system code and press **[ENTER]**.

Card offset 2

> **Card Offset 2: + 0**
> **SysCode:**

Press **[MENU*]** to toggle the offset between + and −.

Enter the card offset required and press **[ENTER]**.

Installer menu option 21, Zone Shunts

A shunt procedure inhibits a zone input from generating an alarm during a certain time period when active. A zone shunt starts when an output is activated (usually a door unlocking.) During the shunt time the zone input is bypassed. If the zone input is still active after the shunt times have expired, the zone input will generate an alarm, depending on the zone input type and the status of the area.

A shunt timer (16 available) that can be programmed individually controls each zone shunt. Before the shunt timer expires, a warning can be given.

Use the following steps to navigate to the option:

1. Press **[MENU*]** enter **1278** and press **[ENTER]** to access the system menu.

2. Enter **19** and press **[ENTER]** to access menu 19, Installer Programming.

3. Press **[MENU*]** to choose advanced menu.

4. Enter **21** and press **[ENTER]** to access option 21, Zone Shunts.

Note: To program a YES/NO option, press **[ENTER]** to accept the display or press **[MENU*]** to toggle between YES and NO. Enter 0 to skip options.

Shunt timer number

> **Shunt Timers**
> **Shunt No:**

Enter the shunt timer number (16 available) and press **[ENTER]**.

Note: When a keypad is used to start the timer, the shunt timer number must be the same as the arming station number (1 to 16, set by DIP switches in the arming station.)

Zone number to shunt

> **Has No Zone Assigned**
> **Zone No:**

The zone can only be assigned to one shunt timer. The display shows the current zone number that relates to this shunt timer.

Enter the zone number and press **[ENTER]**.

Output number to start shunt

> **Shunt 1: Shunts Zone by Output 2**
> **Output No:**

The output condition controls whether or not the zone remains shunted. If the output is active, the zone is always shunted. When the output deactivates, the shunt timer continues to run for the programmed shunt time.

Enter the output number and press **[ENTER]**.

Note: The total shunt time is the time the output activates plus the shunt time.

Shunt time

> **Shunt 1: Time is Set For (Sec) 0**
> **Shunt Time:**

If the shunt time expires and the zone remains active, an alarm condition occurs, depending on the zone input type of the area.

If the value entered is less than 128, the time is in seconds (1 –127 seconds.) To set the time in minutes, the value entered is 128 plus the time required in minutes (for 30 minutes enter 158, 128 + 30 = 158.)

The value 128 is invalid and cannot be used. For accurate timing of 1 or 2 minutes, set the time in seconds (60 or 120 seconds.)

Note: Do not use a time of 0 seconds, unless used for doors and the "cancel door event flag" is set to YES. The zone could otherwise be shunted indefinitely.

Enter the shunt time and press **[ENTER]**.

Shunt warning time

> **Shunt Warning is 10**
> **Warn Time:**

The shunt warning time is the time the shunt warning event flag will be activated before the shunt timer expires. If the shunt time is programmed in seconds, the warning time is also programmed in seconds. If the shunt time is programmed in minutes, the warning time is also programmed in minutes.

Enter the shunt warning time and press **[ENTER]**.

Shunt event flag

> **Shunt Event Flag is 4**
> **Event Flag:**

The event flag assigned is activated when the shunt timer is running.

Enter the event flag number and press **[ENTER]**.

Shunt warning event flag

> **Shunt Warning Event Flag is 12**
> **Event Flag:**

The event flag assigned is activated when the shunt warning time is active.

Enter the event flag number and press **[ENTER]**.

Door open command starts shunt

> **NO – Door Open Command Start Shunt**
> *** - Change, 0 - Skip**

YES A keypad or shunt output is required to start the shunt timer. If a keypad is used, the user must have a valid door group assigned.

NO The condition of the zone input triggers the timer.

Note: If this option is set to YES, Entry/Exit Shunting must be set to NO. If this option is set to YES and the keypad or shunt relay starts the shunt time, the timer resets if the zone input does not switch to normal state within:

- • 3 seconds if the shunt time is programmed for 1 to 127 seconds
- • 3 minutes if the shunt timer is programmed for 1 to 127 minutes.

Shunt zone when disarmed

> **NO – Shunt Zone When Disarmed**
> *** - Change, 0 - Skip**

YES The zone will be shunted when one or more of the areas assigned to the zone are disarmed.

NO The zone will not be shunted when the areas assigned to the zone are disarmed.

Note: Set either Shunt Zone When Disarmed or Shunt Zone When Armed to YES for the shunt procedure to operate.

Shunt zone when armed

> **NO – Shunt Zone When Armed**
> *** - Change, 0 - Skip**

YES The zone will be shunted when all of the areas assigned to the zone are armed.

NO The zone will not be shunted when the areas assigned to the zone are disarmed.

Note: Set either Shunt Zone When Disarmed or Shunt Zone When Armed to YES for the shunt procedure to operate.

Cancel door event flag

> **NO – Cancel Door Event Flag**
> *** - Change, 0 - Skip**

YES   As soon as the shunted zone switches to normal state, the door unlock event and the shunt timer are canceled.

NO   The door unlock event and the shunt timer are not canceled if the zone switches to normal.

Zone holds event flag for two seconds

> **NO – Zone Holds Event Flag for 2 Sec.**
> *** - Change, 0 - Skip**

YES   In order to allow time for a door to close, there is a 2-second delay after the zone switches to normal state and before it cancels the door event and shunt timer.

NO   There is no delay.

Entry/exit shunting

> **NO – Entry/Exit Shunting**
> *** - Change, 0 - Skip**

YES   The zone is treated as an entry/exit zone. A code must be entered to start the shunting or before the shunt timer expires, otherwise an alarm is generated.

NO   The shunted zone is not treated as an entry/exit zone.

Note: If this option is set to YES, Door Open Command must be set to NO.

Log door open/close

> **NO – Log Door Open/Close**
> *** - Change, 0 - Skip**

YES Every time the zone changes status, it is logged to the printer.

NO Zone status changes are not logged to the printer.

Note: If Print Zone When Active in Section 10. Zone Database, Option 1 is set to YES for the zone assigned to the shunt timer, a door open message is sent twice.

Installer menu option 22, Time Zone to Follow Output

A time zone can be selected to follow an output. When the output is active, the time zone is valid. Use this option to invalidate alarm groups if certain conditions are not met.

Examples:

- Prohibit the use of a keypad, unless a keyswitch on a zone is active.
- Allow an area to be disarmed only if another area is disarmed first.

The time zones that follow outputs are also referred to as soft time zones. Hard time zones are valid between a start time and an end time (see *Installer menu option 13, Time Zones*.)

Use the following steps to navigate to the option:

1. Press **[MENU*]** enter **1278** and press **[ENTER]** to access the system menu.
2. Enter **19** and press **[ENTER]** to access menu 19, Installer Programming.
3. Press **[MENU*]** to choose advanced menu.
4. Enter **22** and press **[ENTER]** to access option 22, Time Zone to Follow Output.

Select time zone

> **Output to Time Zone**
> **TZ (26-41)**

Enter the time zone to follow the output (time zones 26 to 41 available) and press **[ENTER]**.

Assign output to follow

> **TZ 27 To Follow Output 3**
> **Output No:**

Enter the output the time zone must follow and press **[ENTER]**.

Note: When programming door groups, time zones 26 to 41 can only be used with doors 1 to 16. Doors 17 to 64 are only available on 4-door DGPs that only recognize time zones 0 to 24. Time zones 26 to 41 can never be used in floor groups. If the output is inverted, time zones 26 to 41 are valid if the output is not active (the event flag is not triggered.)

Installer menu option 23, Poll Errors

Use this option to view the number of errors detected in communications between the Alliance control panel and the devices connected to the control panel.

Use the following steps to navigate to the option:

1. Press **[MENU*]** enter **1278** and press **[ENTER]** to access the system menu.

2. Enter **19** and press **[ENTER]** to access menu 19, Installer Programming.

3. Press **[MENU*]** to choose advanced menu.

4. Enter **23** and press **[ENTER]** to access option 23, Poll Errors.

Select device type

> **1 - RAS, 2 – DGP, 3 – Clear All Counters**
> **0 – Exit, Menu:**

Enter the number for the device type and press **[ENTER]**.

Table 21. Device type codes

Number	Device	Description
1	RAS	View poll errors for remote arming stations (RASes.)
2	DGP	View poll errors for data gathering panels (DGPs) or the dialer.
3	all	Reset all poll error counters.

Select device number

> **RAS 1, Poll Error Count is 0**
> **0 – Exit, RAS No:**

Enter the number for the device and press **[ENTER]**.

Table 22.   Device codes

Device number	Description
RAS 1 to 16	Remote arming stations (RASes) 1 to 16
DGP 0	Panel communications to central station
DGP 1 to 15	Data gathering panels (DGPs) 1 to 15

Continue to view poll errors by entering a device number and pressing **[ENTER]** or leave
the list and return to the device type selection by pressing **[ENTER]**. Enter 0 to exit the
menu.

Note: Reset all poll error counters when the system is error-free after installation. If you do not, errors
that occurred during installation could distort future error count. The maximum error count that
can be recorded is 255.

Installer menu option 24, Download to Remote Devices

Use this option to download data concerning access control functions for the 4-door DGPs to remote devices such as the AL-1255.

While the 4-door DGPs programmed to be polled and are online, any programming done regarding these DGPs will be automatically downloaded. However, if a 4-door DGP is added to the system at a later date or has had to be defaulted or replaced, any relevant user, door group, time zone, or holiday data can be downloaded using this option. All of these settings are stored in databases in the control panel and the DGP so that the 4-door DGP can operate as a stand-alone in case of problems communicating to the control panel.

1. Press **[MENU*]** enter **1278** and press **[ENTER]** to access the system menu.

2. Enter **19** and press **[ENTER]** to access menu 19, Installer Programming.

3. Press **[MENU*]** to choose advanced menu.

4. Enter **24** and press **[ENTER]** to access option 24, Download To Remote Device.

Select download option

> **1 – Display Status, 2 - Download Option:**

Enter the number for the download type and press **[ENTER]**.

Table 23.   Download type codes

Number	Description
1	Display the download status.
2	Select the item to download.

Display download status

If you entered "1" in the previous option, the display shows:

> **No Download**
> **Que = 0200**

- The database items being downloaded.
- The total number of records to be downloaded for the option in progress
- The number of records already downloaded
- The number of records in the queue

Download options

If you entered "2" in "Select Download Option" above, the display shows options for databases to be downloaded.

> **1–Abort 2–Users 3–Grps 4–TZ 5-Hol**
> **Option:**

Enter the number for the required action and press **[ENTER]**.

Table 24.   Download action codes

Number	Description
1	Abort any download in progress. Erases the current database being downloaded to the 4-door DGP.
2	Download all users.
3	Download door groups.
4	Download time zones 0 to 24.
5	Download holidays.

Installer menu option 25, Display Last Card

Use this option to show the system code and ID number of the last card read by a reader connected to the Alliance system databus (for doors 1 to 16 only, not for doors 17 to 64 on a 4-door DGP.)

Use the following steps to navigate to the option:

1. Press **[MENU*]** enter **1278** and press **[ENTER]** to access the system menu.

2. Enter **19** and press **[ENTER]** to access menu 19, Installer Programming.

3. Press **[MENU*]** to choose advanced menu.

4. Enter **25** and press **[ENTER]** to access option 25, Display Last Card.

> **Last Card RAS SC=23 User=987654**
> **Press ENTER:**

The sample display shows the system code as "SC=23" and the card ID as "User=987654".

Press **[ENTER]** to exit the menu.

Note: The card must have a valid format that the system is programmed to recognize. If the correct system code is not programmed in *Installer menu option 20, System Codes*, only the system number is displayed and not the card ID. If the correct system code is programmed the system number and the card ID are displayed.

Installer menu option 28, To Remote Device

Use this option to access additional programming menus for remote devices such as a 1-door RAS or 4-door DGP. The remote device must be:

- Connected to the Alliance system databus
- Addressed as a RAS or DGP with onboard DIP switches
- Programmed to be polled in *Installer menu option 3, RAS Database* or *Installer menu option 4, DGP Database*
- Programmed with the correct type (DGP only) in *Installer menu option 4, DGP Database*.

Use the following steps to navigate to the option:

1. Press **[MENU*]** enter **1278** and press **[ENTER]** to access the system menu.

2. Enter **19** and press **[ENTER]** to access menu 19, Installer Programming.

3. Press **[MENU*]** to choose advanced menu.

4. Enter **28** and press **[ENTER]** to access option 28, To Remote Devices.

Select the device type

> **Remote Device: 1-DGP 2-RAS**
> **Device:**

Enter 1 to select a DGP or enter 2 to select a RAS and press **[ENTER]**.

Select the device to program

> **Remote XXX Set-Up**
> **XXX No:**

Enter the device number (the number is the DIP switch setting on the device) and press **[ENTER]**.

> **#-Move On, *-Move Back**
> **Menu:**

Press **[ENTER]** (#) to continue device programming.

Note: For further information on programming the remote device, see the programming manual for the device selected.

Installer menu option 29, Computer Connection

Use this option to program connections to a computer running software package to program or control the Alliance system.

When connecting the panel directly via the J18 (onboard RS-232 port) or connecting the panel via the Alliance computer/printer interface, it is not necessary to set the first four options in this section.

When connecting the panel as a remote connection via the onboard PSTN dialer or the ISDN interface or via a stand-alone ISDN or PSTN modem connected to the computer/printer interface, the first option in this section must be set to YES.

Use the following steps to navigate to the option:

1. Press **[MENU*]** enter **1278** and press **[ENTER]** to access the system menu.

2. Enter **19** and press **[ENTER]** to access menu 19, Installer Programming.

3. Press **[MENU*]** to choose advanced menu.

4. Enter **29** and press **[ENTER]** to access option 29, Computer Connection.

Note: To program a YES/NO option, press **[ENTER]** to accept the display or press **[MENU*]** to toggle between YES and NO. Enter 0 to skip options.

Enable remote up/download

> **YES – Enable Remote Up/Download**
> *** - Change, 0 - Skip**

YES   A remote connection (up/download) is possible.

NO   Remote up/download is not possible.

Note: To ensure optimum security, this option should be set to YES. This option must be set to YES to program the next four options.

Up/download if any area armed

> **NO – Up/Download, If Any Area Armed**
> *** - Change, 0 - Skip**

YES   A remote connection is possible if an area is armed.

NO   A remote connection is not possible if an area is armed. If set to NO and a remote connection is established, the panel will be disconnected when the user arms the system.

Note: To ensure optimum security, this option should be set to NO. Enable Remote Up/Download must be set to YES for this option to operate.

Enable remote control

> **YES – Enable Remote Disarming**
> *** - Change, 0 - Skip**

YES   Remote arming of areas, controlling outputs, and door control is allowed when armed.

NO   Remote arming of areas, controlling outputs, and door control is not allowed when armed.

Note: To ensure optimum security, this option should be set to NO. This option will only disable remote control function and not status requests and will only operate if Enable Remote Up/Download is set to YES.

Remote control if any area armed

> **NO – Connect If Any Area Armed**
> *** - Change, 0 - Skip**

YES   Remote arming and disarming of areas, controlling outputs, and door control is allowed.

NO   Remote arming and disarming of areas, controlling outputs, and door control is not allowed.

Note: To ensure optimum security, this option should be set to NO. Enable Remote Up/Download must be set to YES for this option to operate.

Use modem initialization string

> **NO – Use Modem Inti. String**
> *** - Change, 0 - Skip**

YES   Up/download uses a compatible modem connected to the AL-1801.

NO   Up/download uses the built-in modem.

Note: Enable Remote Up/Download must be set to YES for this option to operate.

Enter 32 character initialization modem string

> **End Enter 32 Char. Init. Modem String**

If Use Modem Initialization Modem String is set to YES, enter the modem initialization string (up to 32 characters) and press **[ENTER]**. This initialization modem string is sent to a compatible modem on the AL-1801. The character entry allows for the following characters: @ & = % + , ;

Press **[MENU*] [MENU*]** to go to the next option.

Report alarms to computer

> **NO – Report Alarms to Computer**
> *** - Change, 0 - Skip**

YES   Alarms will be reported using the computer telephone number.

NO   No alarms will be reported to the computer.

Report access events to computer

> **NO – Report Access Events to Computer**
> *** - Change, 0 - Skip**

YES   Access control events will be reported using the computer telephone number.

NO   Access control events will not be reported to the computer.

Computer telephone number

```
*Pause, Ph No:
Cmp:
```

Enter the telephone number to be dialed by a modem connected to the Alliance printer/ computer interface to set up a remote up/download connection and press **[ENTER].**

Up/download callback telephone number

```
*Pause, Ph No:
Clbk:
```

Enter the telephone number to be called back, to set up a remote up/download connection and press **[ENTER]**. This number is only used for up/download when dialing into the Alliance system.

Service telephone number

```
*Pause, Ph No:
Srv:
```

Enter the telephone number to be dialed to set up a connection to a computer and press **[ENTER]**. The service number will be dialed if a user activates "Dial Management Software".

Computer address

```
Computer Address:0001
Address:
```

Enter the address to identify the panel to an up/download software package and press **[ENTER]**. If not used, enter 0 and press **[ENTER]**.

Note: Every Alliance system master control panel has address "0" as the default. When operating in multi-panel configurations with two or more panels (only applicable with Alliance software) you must set the corresponding panel address in Computer Address.

Security password

> **Security Password 0000000000**
> **Pass:**

The Alliance system requires a security password before granting access to the panel using up/download software. A connection can be made using a telephone line (dial-up) or using the RS-232 if the interface is available.

Security passwords are always 10 digits. The default is 0000000000.

The up/download software can always connect to the Alliance control panel with the default password. However, it updates the password to the password programmed in the up/download software for the Alliance control panel currently opened.

Enter the password and press **[ENTER]**.

Security attempts

> **Connection Attempts 255, Failed 0**
> **Attempts:**

Enter the number of permissible connection attempts and press **[ENTER]**. The count of attempts increases only if a connection to a modem is established, but a correct security password has not been received. The display shows the number of failed attempts.

Number of rings before answering

> **Number of Rings: 0**
> **Rings:**

Enter the number of rings before answering an incoming call and press **[ENTER]**. If the number is set to 0, incoming calls will not be answered.

Number of calls before answering

> **Number of Calls Before Answer: 0**
> **Calls:**

Enter the number of calls before answering an incoming call and press **[ENTER]**. If the number is set to 0, incoming calls will not be answered. Each incoming call will have to exceed the number of rings, set in Number of Rings Before Answering.

Answering machine defeat

> **NO – Answering Machine Defeat**
> *** - Change, 0 - Skip**

YES   If the number of rings programmed and the number of calls is met, the next incoming call will be answered immediately.

NO   After the number of programmed rings, the call will be answered.

Reserved

> **NO – Reserved**
> *** - Change, 0 - Skip**

This option is not applicable to the US market.

Bell modem

> **NO – BELL Modem**
> **- Change, 0 – Skip**

YES   Bell Modem will be used to up/download.

NO   Bell Modem will not be used to up/download.

Connection type

> **PSTN**
> **Conn Type:**

Enter the number for the connection type and press **[ENTER]**.

Table 25.   Connection type codes

Number	Format
0	PSTN
1	ISDN
2	ISDN-D
3	GSM

Installer menu option 30, Printer

Use this option to program details for the printer. To obtain a printer output from the Alliance control panel, a serial printer interface or a serial computer and printer interface has to be fitted to the control panel.

Use the following steps to navigate to the option:

1. Press **[MENU*]** enter **1278** and press **[ENTER]** to access the system menu.

2. Enter **19** and press **[ENTER]** to access menu 19, Installer Programming.

3. Press **[MENU*]** to choose advanced menu.

4. Enter **30** and press **[ENTER]** to access option 30, Printer.

Note: To program a YES/NO option, press **[ENTER]** to accept the display or press **[MENU*]** to toggle between YES and NO. Enter 0 to skip options.

Enable real-time printer

> **NO – Enable Real Time Printer**
> *** - Change, 0 - Skip**

The real time printing function operates independently of the Alliance system menu option 24. Print History.

YES Enable the printer port on the Alliance control panel to print each event as it happens.

NO A printer is not connected or a printer is not required to run in real time.

Note: Before anything will be printed real-time, either Print Alarm Events or Print Access Control Events must be set to YES.

Print alarm events

> **NO – Print Alarm Events**
> *** - Change, 0 - Skip**

YES All alarm events are printed.

NO Alarm events are not printed.

Print access control events

```
NO – Print Access Control Events
* - Change, 0 - Skip
```

YES   All access control events are printed.

NO   Access control events are not printed.

Print data outside time zone

```
NO – Print Data Outside Time Zone
* - Change, 0 - Skip
```

YES   The printer is only active if the time zone specified is invalid.

NO   The printer is only active if the time zone specified is valid.

Note: Any event that takes place when no data is sent to the printer will be lost for the printer. Use Alliance system menu 24, Print History, to print these events. Enable Real-Time Printer must be set to YES to for this option to operate.

Printer time zone

```
Print During Time Zone 0
TZ No:
```

The printer is only active during the time zone specified unless Print Data Outside Time Zone is set to YES.

Enter the time zone and press **[ENTER]**. The default time zone is 0 (always valid.)

Printer options

**Epson Printer 9600, 8, n, 1
Option:**

Enter the number for the Epson (compatible) dot matrix or HPII (compatible) laser printer
type and press **[ENTER]**.

Table 26. Printer type codes

Number	Name	Baud	Word	Parity	Stop
1	Epson Printer	9600	7 bit	Even	1
2	Laser HPII	9600	8 bit	None	1
3	Laser HPII	19200	8 bit	None	1
4	Epson Printer	9600	7 bit	Odd	1
5	Epson Printer	9600	7 bit	None	1
6	Epson Printer	9600	8 bit	None	1
7	Epson Printer	9600	8 bit	Odd	1
8	Epson Printer	9600	8 bit	Even	1

Installer menu option 31, Battery Testing

Use this option to program automatic battery testing or to perform manual battery testing.

A battery disconnect check is also automatically performed, and a warning is given if a battery is disconnected for more than 10 minutes.

During the battery test, the control panel, DGPs, and all auxiliary driven devices, are powered from the battery. Devices are tested one at a time, ensuring that all devices do not switch to battery test at the same time.

Use the following steps to navigate to the option:

1. Press **[MENU*]** enter **1278** and press **[ENTER]** to access the system menu.

2. Enter **19** and press **[ENTER]** to access menu 19, Installer Programming.

3. Press **[MENU*]** to choose advanced menu.

4. Enter **31** and press **[ENTER]** to access option 31, Battery Testing.

Select battery test program

> **Battery Testing: 1-Program, 2-Test**
> **Option:**

Enter 1 to program the battery test options, or enter 2 to perform a manual battery test and press **[ENTER]**.

If you enter 1 "Program", you will see the next display, Select Battery Test Program, below. If you enter 2 "Test", you will see the Manual Battery Test display on the following page.

Battery test frequency

> **Batt Test Frequency – Every Monday**
> *** - Change, 0 - Skip**

If you entered 1 "Program" in "Select Battery Test Program", this will be the display shown.

To specify how often the automatic battery test should be performed, press **[MENU*]** to scroll through the options below until the display shows the correct option, then press **[ENTER]**.

Options:

- Disabled
- Every working day
- Every Monday
- First Monday of month

Start battery test

> **Start Battery Test: 10:00**
> **Hours:**

Enter the time of day, in hours and minutes, when the battery test will start and press
[ENTER].

Battery test period

> **Run Battery Test For 001**
> **Minutes:**

Enter the period, in minutes, that the automatic battery test will run and press **[ENTER]**. If a
battery test on any device fails, that device immediately restores AC power.

When you press **[ENTER]** you will exit the menu.

Manual battery test

> **No DGP Battery Testing in Progress**
> **Press Enter:**

If you enter 2 "Test" in Select Battery Test Program, this will be the display shown.

This test allows the Alliance panel and DGP batteries to be tested manually. This test does
not affect the automatic battery test. If a DGP is tested, the DGP number will show in the
display.

Press **[ENTER]** to move to the next manual battery test display.

Battery test report

> **All DGP Battery Tested OK**
> **Press Enter:**

The display shows the results of the previous manual battery test.

Press **[ENTER]** to move to the next manual battery test display.

Select DGP number for battery test

> **Manual Battery Test For DGP # 1-16**
> **DGP:**

Enter the DGP number of the unit to be tested and press **[ENTER]**.

DGP 1 – 15 = DGP 1-15

Alliance control panel = DGP 16

Note: If a DGP number is entered for a unit that does not have a battery, the display will show "Invalid Command for DGP Type". Press **[ENTER]** to exit Battery Testing.

Manual battery test period

> **Run Battery Test For 001**
> **Minutes:**

Enter the period, in minutes, that the manual battery test will run and press **[ENTER]**.

Installer menu option 32, Custom LCD Message

This option creates a customized text message for the top line of the first LCD display. The text message (up to 32 characters) can include numbers, spaces, and punctuation marks.

Use the following steps to navigate to the option:

1. Press **[MENU*]** enter **1278** and press **[ENTER]** to access the system menu.

2. Enter **19** and press **[ENTER]** to access menu 19, Installer Programming.

3. Press **[MENU*]** to choose advanced menu.

4. Enter **32** and press **[ENTER]** to access option 32, Custom LCD Message.

> **., (*) - End**
> **.**

Use the text option on the keypad to enter a text message of up to 32 characters. The characters can include upper and lower case letters as well as numbers, spaces, and punctuation marks (see *Installer menu option 10, Program Text*.) To add the time and date to the custom message, use the number keys to enter a period (.) as the first character in the message. The time and date will be displayed in the following format:

HH:MM Day/Month/Year (example: 11:45 02/10/2006)

Using the number keys, enter the required letter. Press **[ENTER]** to advance to the next letter. Press **[MENU*]** to advance to the next word. Press **[CLEAR]** to exit this menu option.

Note: When **{MENU*]** is pressed, only letters preceding the cursor are saved. To save an existing word, enter it again, or move the cursor to the end of the word by pressing **[ENTER].**

Installer menu option 33, Program Next Service

This option programs when the next routine service call is due and the display message. The user will be prompted with this programmable message on the LCD display to call the installer.

Use the following steps to navigate to the option:

1. Press **[MENU*]** enter **1278** and press **[ENTER]** to access the system menu.

2. Enter **19** and press **[ENTER]** to access menu 19, Installer Programming.

3. Press **[MENU*]** to choose advanced menu.

4. Enter **33** and press **[ENTER]** to access option 33, Program Next Service.

Maintenance date

> **Service Required at 00###00**
> **Enter Day:**

Enter the date when the user will receive the next message prompt that maintenance is due. Start by entering the day of the month and press **[ENTER] [ENTER]**. Then enter the month and press **[ENTER] [ENTER]**. Then enter the year and press **[ENTER] [ENTER]**.

Maintenance message

> **., (*)-End**

Use the text option on the keypad to enter a message of up to 32 characters. The characters can include upper and lower case letters as well as numbers, spaces, and punctuation marks (see *Installer menu option 10, Program Text*.)

Using the number keys, enter the required letter. Press **[ENTER]** to advance to the next letter. Press **[MENU*]** to advance to the next word. Press **[CLEAR]** to exit this menu option.

Note: When **[MENU*]** is pressed, only letters preceding the cursor are saved. To save an existing word, enter it again, or move the cursor to the end of the word by pressing **[ENTER].**

Installer menu option 34, Program System Event Flags

System event flags are triggered on system-wide events such as AC failures or DGPs going offline.

Example: To detect AC fail:

- Activate an event flag number
- Trigger an output

Use the following steps to navigate to the option:

1. Press **[MENU*]** enter **1278** and press **[ENTER]** to access the system menu.

2. Enter **19** and press **[ENTER]** to access menu 19, Installer Programming.

3. Press **[MENU*]** to choose advanced menu.

4. Enter **34** and press **[ENTER]** to access option 34, Program System Event Flags.

To program the following system event flags options:

1. Choose an event flag number between 17 and 255 (user defined event flag number.)

2. Document the event flag description for the chosen number on the event flag worksheet.

3. In *Installer menu option 16, Event to Output*:

   - Select an output event flag number between 17 and 255.
   - Choose the event flag number that will trigger this output.
   - Select a time zone to control the output.

AC fail event flag

> **AC Fail No Event Flag**
> **Event Flag**

This event flag is activated when an AC failure is detected on the Alliance control panel or on a DGP.

Enter the event flag number and press **[ENTER]**.

Enter **0** to disable an event flag.

Low battery event flag

> **Low Battery No Event Flag**
> **Event Flag**

This event flag is activated when a low battery is detected on the Alliance control panel or on a DGP.

Enter the event flag number and press **[ENTER]**.

Enter **0** to disable an event flag.

Fuse fail event flag

> **Fuse Fail No Event Flag**
> **Event Flag**

This event flag is activated when a fuse failure is detected on the Alliance control panel or on a DGP.

Enter the event flag number and press **[ENTER]**.

Enter **0** to disable an event flag.

Tamper event flag

> **Tamper No Event Flag**
> **Event Flag**

This event flag is activated when a panel tamper is detected on the Alliance control panel or on a DGP.

Enter the event flag number and press **[ENTER]**.

Enter **0** to disable an event flag.

Siren fail event flag

> **Siren Fail No Event Flag**
> **Event Flag**

This event flag is activated when a Siren fail condition is detected on the Alliance control panel or on a DGP.

Enter the event flag number and press **[ENTER]**.

Enter **0** to disable an event flag.

DGP bypassed event flag

> **DGP Bypassed No Event Flag**
> **Event Flag**

This event flag is activated when a DGP has been bypassed via Alliance system menu 16, Bypass/Unbypass RAS/DGP.

Enter the event flag number and press **[ENTER]**.

Enter **0** to disable an event flag.

DGP offline event flag

> **DGP Off-line No Event Flag**
> **Event Flag**

This event flag is activated when a DGP programmed to be polled, does not respond to polling.

Enter the event flag number and press **[ENTER]**.

Enter **0** to disable an event flag.

RAS offline event flag

> **RAS Off-line No Event Flag**
> **Event Flag**

This event flag is activated when a RAS programmed to be polled, does not respond to polling.

Enter the event flag number and press **[ENTER]**.

Enter **0** to disable an event flag.

Duress event flag

> **Duress No Event Flag**
> **Event Flag**

This event flag is activated when a duress alarm occurs.

Enter the event flag number and press **[ENTER]**.

Enter **0** to disable an event flag.

Film out event flag

> **Film Out No Event Flag**
> **Event Flag**

This event flag is activated when the film count for a camera exceeds the programmed film out level.

Enter the event flag number and press **[ENTER]**.

Enter **0** to disable an event flag.

Report fail event flag

> **Report Fail (FTC) No Event Flag**
> **Event Flag**

This event flag is activated when the Alliance control panel fails to report to the central station.

Enter the event flag number and press **[ENTER]**.

Enter **0** to disable an event flag.

Test mode event flag

> **Test Mode No Event Flag**
> **Event Flag**

This event flag is activated when the Alliance control panel is in test mode.

Enter the event flag number and press **[ENTER]**.

Enter **0** to disable an event flag.

All armed event flag

> **All Armed No Event Flag**
> **Event Flag**

This event flag is activated when all areas to report opening/closing are armed, there are no alarm conditions, and no entry/exit timers are running.

Enter the event flag number and press **[ENTER]**.

Enter **0** to disable an event flag.

Keypad buzzer event flag

> **Keypad Buzzer No Event Flag**
> **Event Flag**

When this event flag is activated, the keypad buzzers are activated. The event flag also has to be assigned to the events that the keypad buzzer sounds on.

Enter the event flag number and press **[ENTER]**.

Enter **0** to disable an event flag.

Dialer active system event flag

> **Dialer Active No Event Flag**
> **Event Flag:**

This flag is active whenever a dialer connection between the panel and central station is active.

Siren test event flag

> **Siren Test No Event Flag**
> **Event Flag:**

This flag is active whenever a siren test is active.

All armed pulse event flag

> **All Armed No Event Flag**
> **Event Flag:**

This option is not applicable to the US market. Press **[ENTER]** to skip.

Computer connection event flag

> **Computer Connection No Event Flag**
> **Event Flag:**

The flag is active whenever a computer connection between the panel and management software is active. The flag is not to be activated until after the connection has been established.

Line fault

> **Line Fault No Event Flag**
> **Event Flag:**

This event flag is active whenever a line fault condition is active.

Battery test active

> **Battery test active No Event Flag**
> **Event Flag:**

This event flag is active when a battery test is being performed.

Engineer walk test

> **Engineer walk test No Event Flag**
> **Event Flag:**

This event flag is active whenever an Engineer walk test is active.

Engineer walk test reset

> **Engineer walk test reset No Event Flag**
> **Event Flag:**

This event flag is active for 5 seconds after each walk test (failed, or completed.)

System A (ACPO) event flag

> **System A (ACPO) No Event Flag**
> **Event Flag:**

This option is not applicable to the US market. Press **[ENTER]** to skip.

System B (ACPO) event flag

> **System B (ACPO) No Event Flag**
> **Event Flag:**

This option is not applicable to the US market. Press **[ENTER]** to skip.

Installer menu option 35, Program Macro Logic

Macro logic provides a powerful tool for activating zone inputs or event flags under specific conditions. These conditions are macro inputs being triggered and logic equations combining the macro input and output conditions.

Up to four macro inputs can be included in the logic equation. A macro input is an event flag or an output. Each macro input in the logic equation can be programmed as an "AND" or an "OR" function and can be programmed to invert the logic.

Programming options are provided so that the macro result will trigger a macro input as a pulse, time, or delay, off delay, or latch when activated.

Figure 3. Overview of Macro Logic
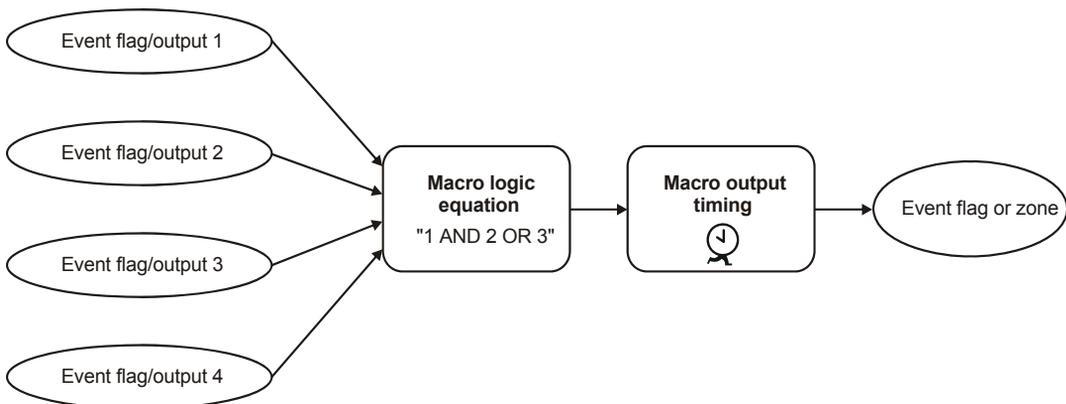
Note: It is very important to plan the macro logic carefully, noting all details and the origin of every zone and/or event flags, before attempting to program.

Use the following steps to navigate to the option:

1. Press **[MENU*]** enter **1278** and press **[ENTER]** to access the system menu.

2. Enter **19** and press **[ENTER]** to access menu 19, Installer Programming.

3. Press **[MENU*]** to choose advanced menu.

4. Enter **35** and press **[ENTER]** to access option 35, Program Macro Logic.

Program number

```
Macro Logic Number
Macro No:
```

Enter the number of the macro logic program (24 available) and press **[ENTER]**.

Macro output function

```
M 1 Disabled
* - Change, 0 - Exit
```

Press **[MENU*]** to scroll through the function options listed below.

Table 27.   Macro output options

Option	Function
Disabled	This macro logic program is disabled.
Nontimed	Follows the result of the logic equation only. If an event flag or output for this macro changes, the logic equation will be calculated again.
On pulse	Activates for the programmed time or the active period of the logic result, whichever is shortest.
On timed	Activates for the programmed time regardless of the macro output changing.
On delay	Activates after the programmed time period unless the result of the logic equation is no longer valid.
Off delay	Follows the result of the logic equation, but remains active for the time programmed after the result of the logic equation is no longer active.
Latched	Activities on any of the first three macro inputs in the logic equation and is only reset by the fourth macro input. Any programmed AND / OR function is not used.

Press **[ENTER]** to accept the displayed option.

Enter **0** to exit menu.

Time

```
M1 Times for 0 Seconds
Time:
```

Enter the time period (1-255 seconds or minutes) that is used when any of the timed macro output functions are selected (pulse, on timed, on delay, or off delay) and press **[ENTER]**.

Macro output triggers event flag or zone

```
M1 Activates Event Flag 0
* - Change, No:
```

To specify if the macro output should trigger an event flag or a zone and specify which event flag or zone:

- Press **[MENU*]** to toggle between "Event Flag" and "Zone".
- Enter the event flag or zone number and press **[ENTER]** to display the event flag or zone to be programmed.
- Enter the same number twice to invert the macro output. It will now trigger the event flag or output if the result of the equation is not true. An inverted macro output is recognized by the exclamation mark (!) preceding the number.
- When the display shows the correct number, press **[ENTER]** to save the display and move to the next option.

Macro inputs

```
M 1 = E0 Or E0 Or E0 Or E0
* - Change, Input 1:
```

This option is used to program up to four macro inputs (event flag or output numbers.)

When all conditions of the logic equation are met, the macro output is active and the event flag or zone programmed in the previous step is activated (depending on any timing function programmed on the macro output.)

Press **[MENU*]** to toggle between "E" (event flag) and "R" (Output.)

Enter the event flag or zone number and press **[ENTER]** to display the event flag or zone to be programmed.

Enter the same number twice to invert the macro output. It will now trigger the event flag or output if the result of the equation is not true. An inverted macro output is recognized by the exclamation mark (!) preceding the "E" or "R".

When the display shows the correct number, press **[ENTER]** to save the display and move to the next option.

Macro logic equation

> **M 1 = E0 Or E0 Or E0 Or E0**
> *** - Chg, Logic 1:**

This option is used to specify the logical operators that create the macro logic equation. Two operators are available, as follows:

- AND — Result is true only if both inputs are active.
- OR — Result is true if one of the inputs was active.

Press **[MENU*]** to toggle between OR or AND.

Press **[ENTER]** to save the displayed information and to return to the original macro logic display.

Note: Any unused macro inputs must be left as an "OR". "NAND" and "NOR" functions can be made using the invert operator on the macro output or the macro inputs.

"NAND" = INVERT (Macro Input 1) OR INVERT (Macro Input 2.)

"NOR" = INVERT (Macro Input 1) AND INVERT (Macro Input 2.)

Installer menu option 42, Reporting Class Database

Alarm reporting depends on the settings in Section 10, Zone Database, Option 1, Reporting of Zone.

Use the following steps to navigate to the option:

1. Press **[MENU*]** enter **1278** and press **[ENTER]** to access the system menu.

2. Enter **19** and press **[ENTER]** to access menu 19, Installer Programming.

3. Press **[MENU*]** to choose advanced menu.

4. Enter **42** and press **[ENTER]** to access option 42, Reporting Class Database.

Note: To program a YES/NO option, press **[ENTER]** to accept the display or press **[MENU*]** to toggle between YES and NO. Enter 0 to skip options.

Select the report class

> **Class Number**
> **Class No:**

Enter the class number and press **[ENTER]**.

Table 28. Report classes

Class number	Name
1	Reserved
2	Reserved
3	Panic alarms
4	Burglar alarms
5	General alarms
6	24-hour alarms
7	Reserved
8	System alarms

Each class has multiple types of alarms it can report (the *panic alarms* class contains SIA reporting for both PA (panic alarm) and HA (hold-up alarm.)

Select the class condition

> **Condition Number**
> **Condition:**

Enter the class condition number and press **[ENTER]**.

Table 29. Class conditions

Condition number	Reports
1	Alarms
2	Alarm restore
3	Tamper
4	Tamper restore
5	Bypass
6	Bypass restore (unbypass)

Confirm class condition

> **Class 6 24-Hour / Cdn 5 Bypass**
> **Confirm – ENTER:**

If correct, press **[ENTER]**.

Report to central station 1

> **YES – Report Alarm to CS1**
> ***** **- Change, 0 - Skip**

YES   Report condition to central station 1.

NO   Do not report condition to central station 1.

Report to central station 2

> **YES – Report Alarm to CS2**
> *** - Change, 0 - Skip**

YES   Report condition to central station 2.

NO   Do not report condition to central station 2.

Report to central station 3

> **YES – Report Alarm to CS3**
> *** - Change, 0 - Skip**

YES   Report condition to central station 3.

NO   Do not report condition to central station 3.

Report to central station 4

> **YES – Report Alarm to CS4**
> *** - Change, 0 - Skip**

YES   Report condition to central station 4.

NO   Do not report condition to central station 4.

Enable audio listen-in

> **NO – Enable Audio Listen-In**
> *** - Change, 0 - Skip**

YES   Audio listen-in is allowed for this condition.

NO   Audio listen-in is not allowed for this condition.

Installer menu option 43, Test Calls

This option programs details concerning test calls.

Use the following steps to navigate to the option:

1. Press **[MENU*]** enter **1278** and press **[ENTER]** to access the system menu.

2. Enter **19** and press **[ENTER]** to access menu 19, Installer Programming.

3. Press **[MENU*]** to choose advanced menu.

4. Enter **43** and press **[ENTER]** to access option 43, Test Calls.

Note: To program a YES/NO option, press **[ENTER]** to accept the display or press **[MENU*]** to toggle between YES and NO. Enter 0 to skip options.

Start test call

> **Start First Test Call at 00:00**
> **Hours:**

Enter the time (hours and minutes) when a test call should be made and press **[ENTER]**.

Test call interval

> **Test Call Interval 00 Hours**
> **Hours:**

Enter the interval (1-255 hours) between test calls and press **[ENTER]**.

Installer menu option 50, Channel Mapping

This option is not applicable to the US market.

Installer menu option 51, Engineering Reset

This option allows the engineer to perform a reset without calculating the Alliance system code.

Use the following steps to navigate to the option:

1. Press **[MENU*]** enter **1278** and press **[ENTER]** to access the system menu.
2. Enter **19** and press **[ENTER]** to access menu 19, Installer Programming.
3. Press **[MENU*]** to choose advanced menu.
4. Enter **51** and press **[ENTER]** to access option 51, Engineering Reset.

```
Engineer Reset?
* - Reset, 0 - Skip
```

5. Press **[MENU*]** to perform the reset (the display will show "Done".)
6. Enter **0** to exit the menu.

Other ways to perform an engineering reset

Whenever an engineer reset is required, the panel will display a four-digit code. Use this code to obtain from the central station (or your distributor) a special software-generated reset code and enter it on a RAS, or in the system management software.

Alternatively, an engineering reset may be performed via key switch using input type 65.

Installer menu option 52, Voice Reporting

This option is not applicable to the US market.

Installer menu option 53, Program DVMRe

This option programs details concerning DVMRe setup. Refer to *DVMRe interface* on page 230 for more details about this option.

Use the following steps to navigate to the option:

1. Press **[MENU*]** enter **1278** and press **[ENTER]** to access the system menu.

2. Enter **19** and press **[ENTER]** to access menu 19, Installer Programming.

3. Press **[MENU*]** to choose advanced menu.

4. Enter **53** and press **[ENTER]** to access option 53, Program DVMRe

Note: To program a YES/NO option, press **[ENTER]** to accept the display or press **[MENU*]** to toggle between YES and NO. Enter 0 to skip options.

DVMRe alarm input map

> **DVMRe Alarm Input Map**
> **Alarm Input:**

The DVMRe has 16 alarm inputs that can be mapped to any of the 255 control panel relays (outputs.)

Enter the number of the DVMRe alarm input and press **[ENTER]**.

In the following example, the entered alarm input number is 1, and no relay has been assigned to it. Press the **[*]** key to advance to the next DVMRe alarm input.

> **"*"-Next, DVMRe Alarm Input 1 No Relay**
> **Relay: 125 [ENTER]**

Enter the control panel relay number. In the following example, relay 125 has been entered for DVMRe alarm input 1.

> **"*"-Next, DVMRe Alarm Input 1 Relay 125**
> **Relay:**

Enable DVMRe interface

> **YES - Enable DVMRe Interface**
> *** - Change 0 - Skip**

This option enables the high level integration (HLI) between the control panel and the DVMRe.

YES   The panel and DVMRe connection can be established and the programmed control flags will be considered.

NO   Overrides all other control flags and there will be no communication between the panel and the DVMRe.

Note: If the DVMRe HLI is used, the control panel will no longer be able to communicate with a serial printer. Set the Enable Real Time Printer option to No (see *Installer menu option 30, Printer*.)

Enable time update

> **YES - Enable Time Update**
> *** - Change 0 - Skip**

This feature will ensure that the time and date of the DVMRe are synchronized approximately every 60 seconds with the control panel. When performing video history searches, the time and date will be based upon the occurrence of panel events.

YES   The control panel time and date will be synchronized to the DVMRe.

NO   No time and date synchronization will take place.

Enable event text insertion

> **YES -Enable Text Insertion**
> *** - Change 0 - Skip**

This option automatically inserts event text from the panel (printer output) into camera 1 text box of the DVMRe. This text will be associated with the footage recorded to all cameras with that time stamp.

YES   The control panel will insert the event text to the DVMRe text box.

NO   No event text insertion will take place.

Enable alarm feedback

> **YES -Enable Alarm Feedback**
> *** - Change 0 - Skip**

The DVMRe has the facility to issue user programmable strings on the occurrence of user definable alarm conditions and motion detection. The strings will be sent out via the HLI and received by the control panel. Based upon the content of the received strings after processing, the control panel can manipulate zone inputs allowing alarm reporting and control of various types to be performed.

YES   The DVMRe will send out the user programmable strings on the occurrence of pre-defined alarm condition.

NO   No alarm condition strings will be send out.

Enable history search and play

> **YES - Enable History Search And Play**
> *** - Change 0 - Skip**

The control panel will have a new menu set added which will be used to emulate a subset of the DVMRe front panel controls. This feature will allow an control panel operator to view and search recorded footage via the RAS. This feature will be used when the DVMRe front panels controls are not accessible and the panels RAS is located next to a spot monitor.

In addition to this, a Search And Play feature is supported. This will allow a user to enter the history menu on the panel RAS and advance the DVMRe playback to the footage recorded at the point of the event occurring. Once the Search And Play command has been issued to the DVMRe, the RAS can display the DVMRe RAS controls so the user can control the payback if the option is selected.

YES   Enables the associated RAS (see *RAS permission*) to search for and/or play a particular footage.

NO   No search or play is allowed via the RAS.

RAS permission

> **No RAS Assigned**
> **RAS Permitted:**

The RAS permission menu enables the Alliance installation technician to select which RASes are connected to the panel, and to have permission to issue Search and Play. It also controls commands to the DVMRe while in the Quick or User Histories.

> **2,**
> **RAS Permitted:**

Up to 16 RASes can be selected in this menu option to have Search and Play and command control of the DVMRe, as shown in the following image.

> **DVMRe 1-Play,2-Search, 3-Camera, 4-View**
> **Menu:**

Installer menu option 54, Engineer Walk Test

Introduction

The engineer walk test allows testing of all zones that are configured for an engineering walk test in selected areas. This test is independent to the zone's configured test type, and is only run manually from this menu item. Areas do not need to be armed or disarmed before a new test is started. The test can be initiated whenever needed.

Zones must be configured to be included in the engineer walk test (see *Engineer walk test* on page 95) The default value is YES (include in engineer walk test.)

Use the following steps to navigate to the option:

1. Press **[MENU*]** enter **1278** and press **[ENTER]** to access the system menu.

2. Enter **19** and press **[ENTER]** to access menu 19, Installer Programming.

3. Press **[MENU*]** to choose advanced menu.

4. Enter **54** and press **[ENTER]** to access option 54, Engineer Walk Test.

Note: To program a YES/NO option, press **[ENTER]** to accept the display or press **[MENU*]** to toggle between YES and NO. Enter 0 to skip options.

Starting the walk test

When starting the engineer walk test the user will be prompted to select area(s) to test by the display shown below. Initially no areas are selected and the top line of the display is blank.

```
0 - All, Area
```

1. Select an area by entering the area number followed by **[ENTER]**. Alternatively, enter **0** and then press **[ENTER]** to select all available areas.

   Areas selected are shown on the top line of the display. Both the user and the RAS must have access to an area in order for the area to be available for selection. If a user attempts to include an area that is not available, the RAS buzzer will sound a warning (several short beeps) and the area will not be displayed in the selected list.

2. Press **[ENTER]** to start the test. Alternatively, press **[CLEAR]**[1] to abort the test and exit the menu. If aborted at this stage, no event (test started, failed, etc.) will be logged, and no test event flag will be set.

When the walk test starts, a walk test event flag is activated to allow detectors to be configured to automatically go into walk test, and the display indicates all zones to be tested.

> **Untested On 1, 2, 4**
> **0"-Cancel, Zone**

If the number of zones is too large to fit on the LCD display, a "," appears at the end of the list. In this case, you can use *Displaying zone names* to check a zone's testing status.

Each zone that changes from sealed to unsealed and then back to sealed will be marked as tested. While the test is running, the displayed list of untested zones automatically updates (without user action) so that zones disappear from the list as they are tested.

Displaying zone names

While the test is running, you can display an untested zone's name by entering the zone number followed by **[ENTER]**.

> **Untested On 1. PIR In Office**
> **NEXT or ENTER**

Press **[NEXT]** (down arrow) to scroll through the names of untested zones, or press **[ENTER]** to return to the numeric list of untested zones, shown above.

Completing the walk test

When all zones have been tested successfully a the following message is displayed, and a message is sent to the central station (see events logged table below.)

> **Test completed**
> **Press ENTER**

---

1. If the RAS does not have a [CLEAR] key, advance to the next menu item, and use 0 to cancel.

Ending the walk test

A test may be ended prior to completion in the following ways:

- Press **[CLEAR]** to end the test.
- The timer set in *Disarm test time* on page 115 expires.

In both cases, the following message is displayed, and a message is sent to the central station to indicate test failed, see events logged table below.

> **Test not completed**
> **Press ENTER**

Note: The warning timer functions as normal during this test. That is, a warning will sound (if warning time programmed) in the normal fashion.

At the end of the walk test, the walk test event flag is deactivated.

After each walk test (failed, or completed) a new Engineer Walk Test Reset system event flag is activated for five seconds. Users may use this event flag to switch the aux output (output 251) to reset any latched detectors in alarm.

Event logging

The walk test causes the following events to be logged. These events are sent as messages to the central monitoring station.

Table 30.   Walk test event logging

Event	Time of logging
ACCESS_TEST_STARTED	When test started
WALK_TEST_ZONE_TESTED	When a zone is tested and management software is connected to the panel (computer connection active event flag set.) Event message includes number of zone tested. This event is not sent to central stations.
WALK_TEST_ZONE_NOT_TESTED	When a zone fails the test and management software is connected to the panel (computer connection active event flag set.) Event message includes number of zone tested. This event is not sent to central stations.
ACCESS_TEST_FAILED	If user cancels the test or on test timeout (failed)

Table 30.   Walk test event logging (continued)

Event	Time of logging
ACCESS_TEST_COMPLETED	Test completed successfully

Panel memory considerations

In order to prevent the panel memory from being filled with events when management software is not connected to the panel, only the ACCESS_TEST_FAILED and ACCESS_TEST_COMPLETED events will be logged in the panel. The following events will be ignored and not logged:

- WALK_TEST_ZONE_TESTED
- WALK_TEST_ZONE_NOT_TESTED

If management software is connected to the panel, the following event will be logged in the panel and sent to management software history:

- WALK_TEST_ZONE_TESTED
- WALK_TEST_ZONE_NOT_TESTED
- ACCESS_TEST_FAILED
- ACCESS_TEST_COMPLETED

Chapter 4 Reference

This chapter provides reference material needed for programming an Alliance system.

In this chapter:

Event flags

Event flags are memory locations in a microprocessor system, which register the occurrence of certain events. Those events can be predefined or they can be programmed so that when certain events take place event flags are triggered.

The Alliance system uses event flags to provide the most flexible solution for activating outputs and manipulating macros. Using event flags gives both options using the same event flag. It is far more flexible than using fixed output types, because fixed output types are hard to combine. With event flags, it is possible to use the same event flag for more than one event, resulting in combined events.

Note: Programmed event flags should be well documented in your system plan. Documented details should include: event flag number, function assigned, output or macro assigned, and a brief description.

A multitude of events can be triggered with event flags. Event flags can be programmed in:

Zone database

Event flags can be programmed in the zone database as zone event flags. Zones can also be linked to predefined event flags for siren events, armed or disarmed alarm flags, and more. The zone event flag will be an installer programmed event flag.

Example: Trigger a zone number that will activate an event flag which will trigger an output.

- Trigger zone number 33.
- Activate event flag number 17.
- Trigger output number 33.

Event flag number 17 is a special event flag that needs to be programmed into the system. The zone event flag number is programmed in Section 10, Zone Database, Option 1.

Area database

In the area database, the event flags are triggered for entry or exit timers, sirens being activated, alarms occurring, etc. Event flags are triggered when certain events in an area occur, regardless of the zone. The area database has 17 predefined event flags.

RAS database

When using door commands in the RAS database, a door can be opened. The RAS needs to be programmed to be able to activate the logic or physical relay output. This event flag needs to be programmed starting from number 17 up to 256.

Zone shunt

When a zone is shunted due to a door opening, the output will activate the time duration programmed for the shunted zone.

System

System event flags contain system events such as 120 VAC failures or low battery. The system event flags need to be set, system event flags are off by default. For keypad buzzer and siren activation this event flag needs to be set. The system has 17 predefined event flags.

Macro logic

Macro logic uses event flags or an output status to manipulate zones or event flags. Logic equations combine the macro inputs and output conditions. These event flags are combinations of a physical or logic relay output to activate a zone or a zone to activate an output that could control a timer or siren.

DGP database

The AL-1255 4-Door DGP and AL-1265 4-Elevator DGP can trigger event flags internally. Refer to the DGP's programming manual for details.

Some events trigger event flags in more than one section. For example, when a zone goes into alarm:

- The siren is activated (programmed in the area database and the zone database.)
- An indicator above the door is illuminates because the zone event flag is also triggered.

All this happens at the same time, activated by the same event, the zone causing the alarm.

Table 31 lists the predefined event flags:

Table 31. *Predefined event flags*

Number	Name	Description
1	External Siren	Default internal siren event flag (assigned in area database.) If set to YES in the zone database, activates when any internal siren activates in any area.
2	Armed Alarm	If set to YES on the zone database, activates when an alarm is generated by the zone and all the areas assigned to the zone are armed. It is used to activate the system strobe output.
3	Armed Alarm	The same function as event flag 2, except for a second system control panel.
4	Armed Alarm	The same function as event flag 2, except for a third system control panel.
5	Armed Alarm	The same function as event flag 2, except for a fourth system control panel.
6	Disarmed Alarm	If set to YES in the zone database, activates when an alarm is generated by the zone and one or more of the areas assigned to the zone are disarmed.
7	Disarmed Alarm	The same function as event flag 6, except for a different system control panel.
8	24-Hour Alarm	If set to YES in the zone database, activates at any time an alarm is generated by the zone.
9	Armed Alarm	The same function as event flag 2, except for a fifth system control panel.
10	Armed Alarm	The same function as event flag 2, except for a sixth system control panel.
11	Armed Alarm	The same function as event flag 2, except for a seventh system control panel.
12	Armed Alarm	The same function as event flag 2, except for an eighth system control panel.
13	Internal Siren	Default internal siren event flag (assigned in the area database.) If set to YES in the zone database, activates when any internal siren activates in any area.

Table 31.   Predefined event flags (continued)

Number	Name	Description
14	Do NOT Use	
15	Do NOT Use	
16	Testing	Activates during the arm test. A testing event is used to activate a device that allows the testing of other devices that need to be tested. For example, activate a light to test a light detector. The tester event flag activates for half the testing event flag programmed in *Installer menu option 6, Timers* on page 114. The remaining period of the arm test time is settling time to allow the tested device to switch back to normal state (make sure that the arm test time is longer than the testing event time.)

Reporting

Reporting in a control panel is divided into zone event reporting and system event reporting. System event reporting is not described in this manual.

Zone event reporting

Zones use reporting classes and subclasses that can be programmed per zone. Select the conditions to report per class in *Installer menu option 42, Reporting Class Database* on page 204.

Table 32 shows an overview of the reported zone event per subclass and condition. The CID column holds the reported Contact ID event, the SIA column holds the SIA event.

Table 32.   Reported events per subclass

Type No	Class	Subclass	Condition	CID	SIA
1-12	DO NOT USE				
13	Panic	Panic 120 (PA)	Alarm	E120	PA
			Tamper	E383	TA
			Bypass	E570	PB
			Alarm restore	R120	PR
			Tamper restore	R383	TR
			Bypass restore	R570	PU
14		Panic 121 (HA) Duress	Alarm	E121	HA
			Tamper	E383	TA
			Bypass	E570	HB
			Alarm restore	R121	HR
			Tamper restore	R383	TR
			Bypass restore	R570	HU

Table 32.   Reported events per subclass (continued)

Type No	Class	Subclass	Condition	CID	SIA
15	Panic (cont.)	Panic 122 (PA) Silent Panic	Alarm	E122	PA
			Tamper	E383	TA
			Bypass	E570	PB
			Alarm restore	R122	PR
			Tamper restore	R383	TR
			Bypass restore	R570	PU
16		Panic 123 (PA) Audible Panic	Alarm	E123	PA
			Tamper	E383	TA
			Bypass	E570	PB
			Alarm restore	R123	PR
			Tamper restore	R383	TR
			Bypass restore	R570	PU
17	Burglar	Burglar 130 (BA) Burglary	Alarm	E130	BA
			Tamper	E383	TA
			Bypass	E570	BB
			Alarm restore	R130	BR
			Tamper restore	R383	TR
			Bypass restore	R570	BU
18		Burglar 131 (BA) Perimeter	Alarm	E131	BA
			Tamper	E383	TA
			Bypass	E570	BB
			Alarm restore	R131	BR
			Tamper restore	R383	TR
			Bypass restore	R570	BU

Table 32.   Reported events per subclass (continued)

Type No	Class	Subclass	Condition	CID	SIA
19	Burglar (cont.)	Burglar 132 (BA) Interior	Alarm	E132	BA
			Tamper	E383	TA
			Bypass	E570	BB
			Alarm restore	R132	BR
			Tamper restore	R383	TR
			Bypass restore	R570	BU
20		Burglar 133 (BA) 24-Hour	Alarm	E133	BA
			Tamper	E383	TA
			Bypass	E570	BB
			Alarm restore	R133	BR
			Tamper restore	R383	TR
			Bypass restore	R570	BU
21		Burglar 134 (BA) Entry/Exit	Alarm	E134	BA
			Tamper	E383	TA
			Bypass	E570	BB
			Alarm restore	R134	BR
			Tamper restore	R383	TR
			Bypass restore	R570	BU
22		Burglar 135 (BA) Day/Night	Alarm	E135	BA
			Tamper	E383	TA
			Bypass	E570	BB
			Alarm restore	R135	BR
			Tamper restore	R383	TR
			Bypass restore	R570	BU

Table 32.   Reported events per subclass (continued)

Type No	Class	Subclass	Condition	CID	SIA
23	Burglar (cont.)	Burglar 136 (BA) Outdoor	Alarm	E136	BA
			Tamper	E383	TA
			Bypass	E570	BB
			Alarm restore	R136	BR
			Tamper restore	R383	TR
			Bypass restore	R570	BU
24		Burglar 137 (BA) Tamper	Alarm	E137	BA
			Tamper	E383	TA
			Bypass	E570	BB
			Alarm restore	R137	BR
			Tamper restore	R383	TR
			Bypass restore	R570	BU
25		Burglar 138 (BA) Near Alarm	Alarm	E138	BA
			Tamper	E383	TA
			Bypass	E570	BB
			Alarm restore	R138	BR
			Tamper restore	R383	TR
			Bypass restore	R570	BU
26	General Alarms	General 140 (UA) General Alarm	Alarm	E140	UA
			Tamper	E383	TA
			Bypass	E570	UB
			Alarm restore	R140	UR
			Tamper restore	R383	TR
			Bypass restore	R570	UU

Table 32.   Reported events per subclass (continued)

Type No	Class	Subclass	Condition	CID	SIA
27	General Alarms (cont.)	General 141 (UA) Polling Loop Open	Alarm	E141	UA
			Tamper	E383	TA
			Bypass	R570	UB
			Alarm restore	R141	UR
			Tamper restore	R383	TR
			Bypass restore	R570	UU
28		General 142 (UA) Polling Loop Short	Alarm	E142	UA
			Tamper	E383	TA
			Bypass	E570	UB
			Alarm restore	R142	UR
			Tamper restore	R383	TR
			Bypass restore	R570	UU
29		General 143 (ET) Exp. Module Fail	Alarm	E143	ET
			Tamper	E383	TA
			Bypass	E570	EB
			Alarm restore	E143	ER
			Tamper restore	R383	TR
			Bypass restore	E570	EBU
30		General 144 (TA) Sensor Tamper	Alarm	E144	TA
			Tamper	E383	TA
			Bypass	E570	TB
			Alarm restore	R144	TR
			Tamper restore	R383	TR
			Bypass restore	R570	TU

Table 32.   Reported events per subclass (continued)

Type No	Class	Subclass	Condition	CID	SIA
31	General Alarms (cont.)	General 145 (TA) Exp. Module Tamper	Alarm	E145	TA
			Tamper	E383	TA
			Bypass	E570	TB
			Alarm restore	R145	TR
			Tamper restore	R383	TR
			Bypass restore	R570	TU
32	24-Hour Alarms	24-Hour 150 (UA) 24-Hour Non-Burg	Alarm	E150	UA
			Tamper	E383	TA
			Bypass	E570	UB
			Alarm restore	R150	UR
			Tamper restore	R383	TR
			Bypass restore	R570	UU
33		24-Hour 151 (GA) Gas Detected	Alarm	E151	GA
			Tamper	E383	TA
			Bypass	E570	GB
			Alarm restore	R151	GR
			Tamper restore	R383	TR
			Bypass restore	R570	GU
34		24-Hour 152 (ZA) Refrigeration	Alarm	E152	ZA
			Tamper	E383	TA
			Bypass	E570	ZB
			Alarm restore	R152	ZR
			Tamper restore	R383	TR
			Bypass restore	R570	ZU

Table 32.   Reported events per subclass (continued)

Type No	Class	Subclass	Condition	CID	SIA
35	24-Hour Alarms (cont.)	24-Hour 153 (ZA) Loss of Heat	Alarm	E153	ZA
			Tamper	E383	TA
			Bypass	E570	ZB
			Alarm restore	R153	ZR
			Tamper restore	R383	TR
			Bypass restore	R570	ZU
36		24-Hour 154 (WA) Water Leakage	Alarm	E154	WA
			Tamper	E383	TA
			Bypass	E570	WB
			Alarm restore	R150	WR
			Tamper restore	R383	TR
			Bypass restore	R570	WU
37		24-Hour 155 (QA) Foil Break	Alarm	E155	QA
			Tamper	E383	TA
			Bypass	E570	QB
			Alarm restore	R155	QR
			Tamper restore	R383	TR
			Bypass restore	R570	QU
38		24-Hour 156 (UA) Day Trouble	Alarm	E156	UA
			Tamper	E383	TA
			Bypass	E570	UB
			Alarm restore	R156	UR
			Tamper restore	R383	TR
			Bypass restore	R570	UU

Table 32.   Reported events per subclass (continued)

Type No	Class	Subclass	Condition	CID	SIA
39	24-Hour Alarms (cont.)	24-Hour 157 (ZA) Low Bottled Gas Level	Alarm	E157	ZA
			Tamper	E383	TA
			Bypass	E570	ZB
			Alarm restore	R157	ZR
			Tamper restore	R383	TR
			Bypass restore	R570	ZU
40		24-Hour 158 (KA) High Temp	Alarm	E158	KA
			Tamper	E383	TA
			Bypass	E570	KB
			Alarm restore	R158	KR
			Tamper restore	R383	TR
			Bypass restore	R570	KU
41		24-Hour 159 (ZA) Low Temp	Alarm	E159	ZA
			Tamper	E383	TA
			Bypass	E570	ZB
			Alarm restore	R159	ZR
			Tamper restore	R383	TR
			Bypass restore	R570	ZU
42		24-Hour 161 (ZA) Loss of Air Flow	Alarm	E161	ZA
			Tamper	E383	TA
			Bypass	E570	ZB
			Alarm restore	R161	ZR
			Tamper restore	R383	TR
			Bypass restore	R570	ZU
43-49	DO NOT USE				

DVMRe interface

Introduction

An Alliance control panel may be connected to a Kalatel DVMRe (Digital Video Multiplexer Recorder) via an AL-1801 Serial Computer and Printer Interface port B (printer port) installed on the control panel.

Note: The control panel can connect via a AL-1801 either to a DVMRe or to a serial printer, not to both simultaneously. Not all control panel models may be used with AL-1801. Check specifications for details.

The DVMRe interface, referred to as a high-level interface (HLI) supports the simultaneous use of up to 16 closed-circuit video cameras. The HLI provides the integrated features and operator-driven functionality summarized in the following sections.

Integration between the DVMRe and the control panel

The HLI enables the following integration between the DVMRe and the control panel:

- The DVMRe's time and date can be synchronized to the control panel's time and date. This enables panel event history displayed on a RAS to coincide precisely with video recorded in the DVMRe. Refer to *Time and date synchronization* on page 232.
- The panel can output event history text to the DVMRe for display in real time on a spot monitor and for recording panel event history text in association with Camera #1 video. Refer to *Event text insertion* on page 233.
- Panel relays can be used to activate DVMRe alarm inputs, which in turn control DVMRe macros. For example, unlocking a door can cause the DVMRe to point a camera at the door and record video at an increased frame rate. See *Using panel relays to control DVMRe macros* on page 235.
- DVMRe alarm inputs can be used to activate (unseal, seal, open and short) panel zones. For example, when a camera detects motion, a change in zone state can be used to generate a panel alarm. See *Using DVMRe alarm inputs to activate panel zones* on page 236.

Operator-driven functionality

The HLI enables security staff to search for and play recorded video footage via specified (enabled) RASes on the Alliance system databus. Refer to *Search and play* on page 238 for details.

Installing the DVMRe interface

The DVMRe must be located such that it can be connected to the control panel's AL-1801 Serial Computer and Printer Interface via an RS-232 cable.

Install a AL-1801 Serial Computer and Printer Interface on the control panel. Refer to the *AL-1801 Installation Guide* for details.

Control panel programming must be performed by an authorized installer using an LCD RAS communicating with the control panel, or by the using appropriate management software.

Connections

Connect the control panel's AL-1801 Serial Computer and Printer Interface printer port to the RS-232/1 port on the rear of the DVMRe using an RS-232 cable fitted with a DB9 female connector on one end. *Figure 4* shows the required connections.

Figure 4.   Connections from AL-1801 printer port to DVMRe
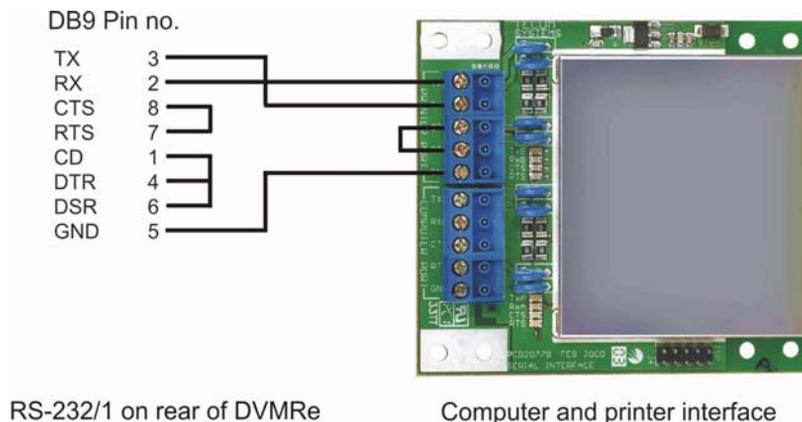
Programming instructions

Use an LCD RAS (or management software) to perform the following steps:

1. Set the **Enable Real Time Printer** option to No (see *Installer menu option 30, Printer* on page 184.)

2. Set the **Enable DVMRe Interface** option to Yes (see *Installer menu option 53, Program DVMRe* on page 209.)

In the DVMRe, use the following steps to program the RS-232 Port 1 to communicate at 9600 Baud:

1. Press the **Menu** button (programming options are displayed on the primary monitor.)

2. Enter the password.

3. Select **Main Menu**.

4. Select **Communications Menu**.

5. Select **RS-232**.

6. Select **Port 1**.

7. Select **9600 Baud Rate**.

8. Press the **Enter** button to save changes and exit the menu.

Time and date synchronization

Time and date synchronization allows the panel to control the DVMRe's time and date. This synchronization occurs once per minute, so the DVMRe's time and date displayed on the spot monitor will match the panel's time and date within two minutes of operation.

Use an LCD RAS (or management software) to set the **Enable Time Update** option to Yes (see *Installer menu option 53, Program DVMRe* on page 209.)

In the DVMRe, use the following steps to accommodate time update:

1. Press the **Menu** button (programming options are displayed on the primary monitor.)

2. Enter the password.

3. Select **Main Menu**.

4. Select **Time/Date Menu**.

5. Select **Set Master/Slave,** and ensure that Master Clock is set to NO.

6. Save the changes (if applicable) and exit the Set Master/Slave screen.

7. Select **Set Region** and ensure that the region and time zone settings are the same as used for the control panel.

Event text insertion

Event text insertion enables the control panel to send panel event history text to the DVMRe for display in real time on a spot monitor and for recording panel event history text in association with video recorded by Camera #1. Event text cannot be recorded for cameras other than #1.

This feature is similar to the real time printer feature, however, the control panel's event text is recorded with video rather than printed. All event text that would otherwise be sent to a serial printer is instead displayed and recorded with video from Camera #1 (the event text might not have any connection to the images captured by the camera.) Recorded event text can also be used as video search criteria (refer to the Kalatel DVMRe User Manual.)

To view the real time panel event text on the spot monitor connected to the DVMRe video output (either live or recorded video), press the **Camera #1** button on the DVMRe front panel (or use RAS emulation keys) until the Event Text display box is overlaid on the video. Typically, two presses will be required (the first press will display a network connection summary and the second will display the Event Text overlay box.)

Event text insertion can be used to check panel events against recorded video. For example, where panel access events contain the user name, an operator can check that the video image of the person using the badge matches the badge user's image. Refer to *Figure 5* for an example of an Access Granted event displaying the assigned badge user's name.

Figure 5. DVMRe spot monitor output - event text and time and date overlay boxes
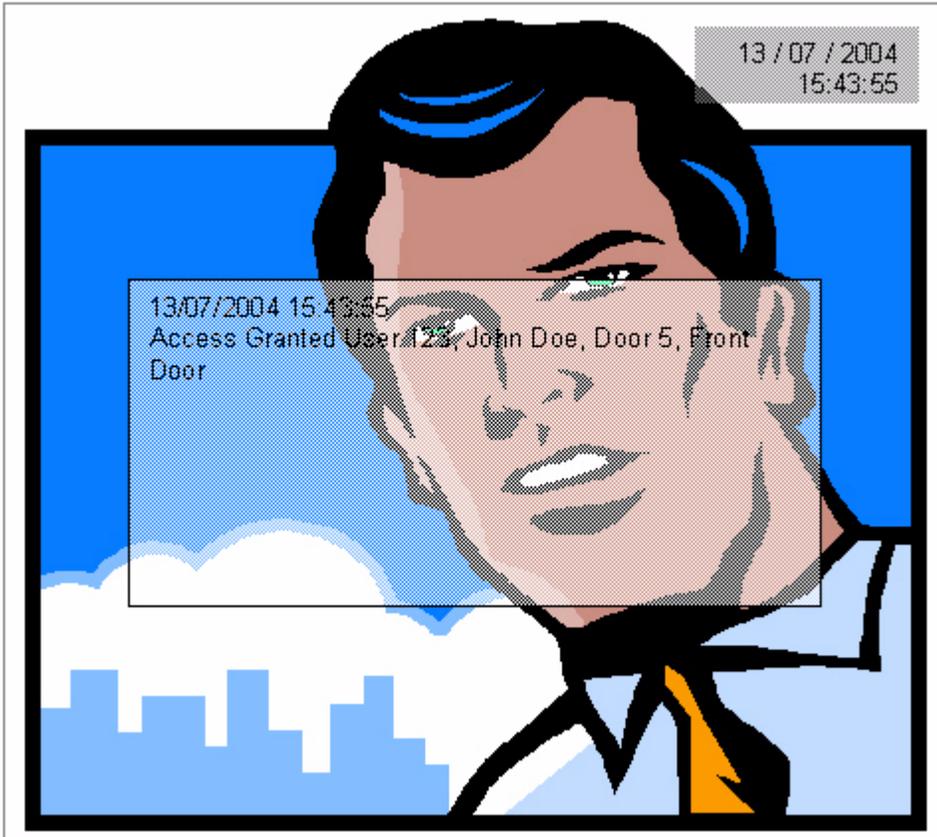
Note: Event text is associated only with video footage recorded by Camera #1. If an event text search is used to find recorded video footage from a camera other than Camera #1, the search must be performed on both the desired camera and Camera #1. Video from all camera inputs is recorded sequentially and chronologically, therefore searching for a point in time on Camera #1 will result in the same point in time on the desired camera. The generation of event text causes the DVMRe to force record a single video frame on Camera #1 in addition to any currently active recording setup.

Programming instructions

Use an LCD RAS (or management software) to set the **Enable Text Insertion** option to Yes
(see *Installer menu option 53, Program DVMRe* on page 209.)

Using panel relays to control DVMRe macros

Use the following steps to program panel relays[2] to control DVMRe macros:

1. Program a DVMRe macro to perform the required camera or DVMRe operations. A
    DVMRe macro is a recorded sequence of up to 32 keystrokes that can be used to
    operate a camera.

2. Program the required panel relay (see *Installer menu option 16, Event to Output* on
    page 110.) A physical relay is not required.

3. Map the panel relay to a DVMRe alarm input (see *Installer menu option 53,
    Program DVMRe* on page 209.)

4. Link the DVMRe alarm input to a DVMRe macro (refer to the *Kalatel DVMRe User
    Manual* for details.)

5. Depending upon the state (set or reset) of the designated panel relay, the panel issues
    an alarm activation or deactivation command to the DVMRe for the corresponding
    DVMRe alarm input.

6. Depending on the DVMRe alarm input command (activation or deactivation), the
    DVMRe runs the associated macro.

For example, opening a door can trigger a camera to point at and zoom in on the door.

---

2.   Relays are used rather than event flags so that time zones can be assigned to the relay and hence the
     DVMRe macro.

Using DVMRe alarm inputs to activate panel zones

Use the following steps to program *alarm feedback*, where DVMRe alarm inputs are used to activate panel zones (seal, unseal, open, or short):

1. Set the **Enable Alarm Feedback** option to Yes (see *Installer menu option 53, Program DVMRe* on page 209.)

2. Program the zones to be controlled by the DVMRe (see *Installer menu option 1, Zone Database* on page 72.) To achieve the desired control panel functionality, it may also be necessary to program control panel macros (see *Installer menu option 35, Program Macro Logic* on page 200.)

3. A DVMRe submacro will be used to issue an RS-232 command string to the panel via the HLI. Program the DVMRe submacro according to *Programming DVMRe submacros* on page 237.

4. A DVMRe macro will be used to trigger the submacro. Program a DVMRe macro and link it to the submacro that you created in the previous step.

5. A DVMRe alarm input will be used to trigger the DVMRe macro. Link a DVMRe alarm input to the DVMRe macro that you created in the previous step.

6. A DVMRe event such as intrusion detection will be used to trigger the DVMRe alarm input. Program Motion Detection for intrusion detection and link it to the DVMRe alarm input.

For example, when the DVMRe senses intrusion, the following occurs:

1. The intrusion detection triggers a DVMRe alarm input.

2. The DVMRe macro is triggered.

3. The DVMRe submacro is triggered. The submacro is an RS-232 command string that is sent to the panel via the HLI.

4. The HLI activates a panel zone according to the instructions contained in the submacro.

Any panel zone state changed by a submacro may require another submacro to further change the panel zone state.

Programming DVMRe submacros

A submacro is an RS-232 command string that the HLI sends to the control panel. Submacros are activated during macros (refer to the *Kalatel DVMRe User Manual* for details.)

The DVMRe submacro must be ten characters, in the format:

a a a a [n n n n] where:

- **aaaa** are four upper-case letters indicating the state (SEAL, UNSL, OPEN, or SHRT) for seal, unseal, open, or short.
- **nnnn** is a four-digit number with leading zeros from 0001 to 0256 representing the panel zone number.
- Square bracket characters are required at the start and end of the panel zone number.

The DVMRe submacro editing window displays characters within brackets, so the string UNSL[0002] displays in the submacro editing window as

[U] [N] [S] [L] [[] [0] [0] [0] [2] []]

Figure 6 is a depiction of a DVMRe submacro edit screen to unseal zone 2.

Figure 6.   Simulated DVMRe submacro edit screen

```
                  Edit  Submacro  01

    085    078    083    076    091    048    048    048    050    093

    [U]    [N]    [S]    [L]    [[]    [0]    [0]    [0]    [2]    []]

                  [CANCEL]        [OK]

 ENTER  key  starts  Submacro  edit
```
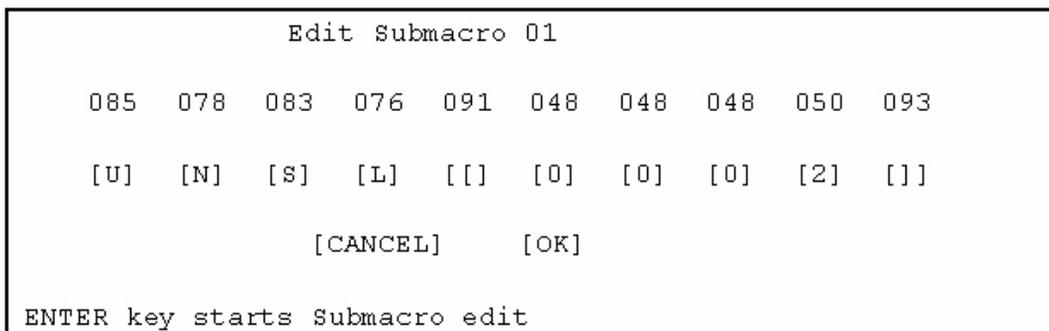
To send a submacro to the control panel without being triggered by the associated macro, press the DVMRe front panel Function button {F} twice, followed by the submacro number.

Search and play

Search and play allows RAS users to recall recorded video footage via specified RASes on the control panel's system databus by entering the Quick History or User History menus. RASes used for search and play must be specifically enabled for this functionality.

When using search and play, the displayed video footage is controlled by the time and date of selected panel events. For example, press **[ENTER]**, **[ENTER]** on the RAS keypad to enter Quick History. When a user scans (scrolls through the history), the spot monitor displays the video recorded at each panel event's time and date.

Upon entering search and play, the spot monitor displays the multi-screen view for all cameras (the number of cameras displayed will depend upon type of DVMRe used: up to 16.) When exiting search and play, the spot monitor is restored to the view mode in use prior to search and play.

Programming instructions

Use an LCD RAS (or management software) to enable DVMRe search and play operations to be performed from specified RASes:

1. Set the **Enable History Search And Play** option to Yes (see *Installer menu option 53, Program DVMRe* on page 209.)

2. Program the RASes permitted to operate the DVMRe (see *Installer menu option 53, Program DVMRe* on page 209.)

3. Enable time and date synchronization (see *Time and date synchronization* on page 232.)

User interface

The level of search and play functionality depends on how search and play is accessed:

- In Quick History mode, the person using the RAS has access to standard play controls and camera selection.
- In User History mode, the person using the RAS has access to most of the DVMRe front panel functions (access to User History requires the person using the RAS to enter their code number.)

Because of these differing levels of functionality, different DVMRe front panel buttons are mapped in different ways to the RAS keypad for each mode. In each case, using a RAS to operate the DVMRe requires the RAS to have permission to issue Search and Play instructions (permitted RAS.)

The two key map modes are described in *Figure 7* and *Figure 8*.

Figure 7.   Quick history key map

Quick History Key Map
Press [ENTER], [ENTER], [*n*] to select an option, where *n* is a numbered key:
1 - Scan (shift the history text display to the next item)
2 - Play
3 - Stop
4 - Fast reverse
5 - Pause
6 - Fast forward
7 - Frame reverse
8 - Select camera menu
9 - Frame forward
0 - Exit Quick History

Press [*n*] to select a camera option, where *n* is:
1 through 9 - camera *n* view
0 - multi-camera view

Permitted RAS
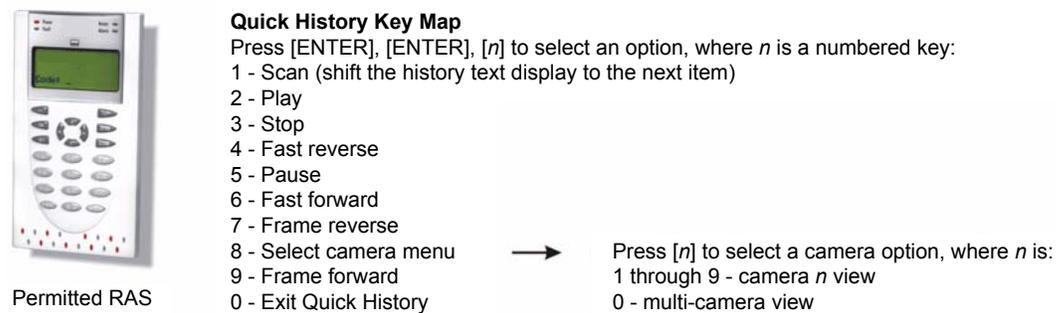
Figure 8.   User history key map

Permitted RAS

User History Key Map
Press [MENU*], [code], [5], [Enter], [1, 2, or 3 to select a history log], [ENTER],
and then [n] to select an option, where n is a numbered key:
1 - Scan [shift the history text display to the next item]
2 - Play
3 - Stop
4 - Fast reverse
5 - Pause
6 - Fast forward
7 - Frame reverse
8 - Select video menu → Press [n] to select a DVMRe sub-menu, where n is:
9 - Frame forward   1 - Play menu
0 - Exit User History   2 - Search menu
                                     3 - Camera menu
                                     4 - View menu

1 - Play menu
Press [n] to send a DVMRe command:
1 - Play
2 - Pause
3 - Stop
4 - Play reverse
5 - Enter
6 - Play forward
7 - Frame reverse
8 - Record
9 - Frame forward

3 - Camera menu
Press [n] to select a camera option:
1 through 9 - camera n view
0 - multi-camera view

2 - Search menu
Press [n] to send a DVMRe command:
1 - Search
2 - Up
3 - Record
4 - Left
5 - Enter
6 - Right
7 - Pause
8 - Down
9 - Menu

4 - View menu
Press [n] to send a DVMRe command:
1 - 2-way view
2 - 4-way view
3 - 6-way view
4 - 7-way view
5 - 9-way view
6 - 10-way view
7 - 13-way view
8 - 16-way view

Troubleshooting search and play

If a requested search and play action fails, the requesting RAS may beep seven times to indicate an error. Possible causes include:

- Faulty cabling or connection - Search and play requires specific configuration information (such as model type, number of camera inputs, etc.) from the DVMRe in order to function correctly. The HLI requests this information every 30 seconds to maintain synchronization with the DVMRe.
- Incompatible DVMRe firmware.
- The Enable DVMRe Interface option is set to NO.

If a requested search and play action fails to display recorded video or if playback of video does not match the expected time and date, possible causes include:

- DVMRe Time/Date is set to Master.
- DVMRe region and time zone setting do not match the control panel.
- Panel event has not been sent to the DVMRe. Check cabling or connection.

Glossary

access control	The control of entry to, or exit from, a security area.
active	The zone input is activated (e.g. Emergency Exit Door open.)
	(See Normal/Active/Tamper/Bypassed.)
alarm	The state of a security system when a device connected to a zone input is activated and the condition of the area is such that activation should be signaled (e.g. a door lock is broken, causing a siren to sound.)
alarm group	Alarm groups define the options available to users, arming stations or door reader to allow alarm control. Alarm groups are defined by a set of areas, alarm control functions and menu options.
	Zone types for area control (keyswitches) also make use of alarm groups.
alarm group restriction	An alarm group restriction can be assigned to an alarm group to enable different types of user to:
	• Use timed disarm option for certain area(s)
	• Restrict alarm control to "Arm/reset only" on certain area(s) or
	• Use the "User Count" or "Emergency" function.
alarm reporting	A procedure to transmit alarm events or other events to a central station by means of a dialer and a set of rules called a protocol.
alarm control	The control over alarm functions.
area	A section of a premise, which has specific security requirements. The Alliance System allows any premise to be divided into 16 areas of different security requirements. Each area has its own zone inputs. Each area is identified with a number and a name (e.g. Area 1 Office, Area 2 Workshop, Area 3 Boardroom, etc.)
armed	The condition of an area where a change in the status of any zone input (from normal to active) causes an alarm. An area or premise is only armed when it is unoccupied, although some zone inputs (vaults) can remain armed continually.
burglar alarm	An alarm triggered by a security device, such as a PIR or door contact that indicates someone has entered without authorized access.
bypassed	The zone input has been excluded from functioning as part of the system and does not indicate normal or active status.
	(See Normal/Active/Tamper/Bypassed)
central station	A company that monitors whether an alarm has occurred in a security system. A central station is located away from the premise/area it monitors.
control panel	An electronic device that is used to gather all data from zone inputs on the premises. Depending on programming and status of areas, it generates alarm signals. If required, alarms and other events will be reported to a central station.

cursor	A flashing underline character on the liquid crystal display (LCD) that indicates where the next character entered on the keypad will appear.
DGP	(Data Gathering Panel) A device that collects data from other security devices within an area, and transfers it to the main control panel or 4-door DGP.
dialer	An electronic device that allows the system to transmit alarms and other events to a central station. It can also be used to perform up/download.
disarmed	The condition of an occupied area when the security system has been set so that normal activity does not set off an alarm.
door contact	A magnetic contact used to detect if a door or window is opened.
door control	The control over door functions.
door group	A feature that assigns a group of doors to a user, in order to allow the user access to those doors. Access to each door in a group can be restricted via a time zone.
dual detector	A security device based on two techniques, such as PIR and RADAR or PIR and Ultrasonic, used to detect intruders in an area or premise.
duress	When a user is being forced to breach the system security (e.g. forced at gunpoint to open the door), the duress feature allows the user to signal a central station by entering a duress digit in conjunction with a PIN code.
engineer	Installer employee qualified to install and service the control panel.
event flags	A signal activated by a zone input condition, area condition, system status or fault condition, door command (on doors 1 to 16), or shunt condition. The main purpose of an event flag is to activate an output.
history	A list of past alarm and access control events stored in memory that can be viewed on an LCD arming station or sent to a printer.
hold-up	An alarm (silent) triggered by a hold-up button only sends a message to a central station.
installer	A company that installs and services security equipment.
keypad	A remote arming station (RAS) with keys to input data used to program the control panel, perform user functions, view alarms, etc.
keyswitch	A device using a switch with a key to arm or disarm areas.
LCD	(Liquid Crystal Display) The part of a remote arming station (RAS) where messages are displayed.
LED	(Light Emitting Diode) A light indicator on an arming station, which conveys a condition (e.g. area in alarm, communication fault, etc.)
local alarm	An alarm that occurs in an occupied area and is signaled within a premise and not reported to a central station.
logic equation	A logic expression that combines macro inputs in a specific manner. The result of a logic equation is called a macro output.

macro input	An event flag or an output that is used in a logic equation. Each macro input is an event flag or output.
macro logic program	A set of rules that is created by macro inputs, logic equations and macro outputs that is used to trigger event flags or zone inputs.
macro output	A macro output holds the result of a logic equation. The macro output can have a timing element. Macro outputs trigger event flags or zone inputs.
normal/active/tamper/ bypassed	Describes the condition of a zone input. • Normal: The zone input is NOT activated (e.g. Emergency Exit Door closed.) • Active: The zone input is activated (e.g. Emergency Exit Door open.) • Tamper: The zone input is open or short-circuited. Someone may have tried to tamper the security device. • Bypassed: The zone input has been excluded from functioning as part of the system and does not indicate normal or active status.
online/offline	Operational/non-operational. A device may be offline due to a malfunction in the device itself or it may be disconnected from the control panel.
output controller	A PCB module that connects to the control panel or a data gathering panel (DGP) to provide relay or open collector outputs. When programming, 1 output controller equals 8 outputs.
PIN code	A 4 to 10-digit number given to, or selected by, a user. It is necessary to enter a PIN code on an Alliance keypad as a prerequisite to perform most functions. In programming, the PIN code is associated with a user number, which identifies the PIN code holder to the system.
PIR detector	(Passive Infrared) A security device used to detect intruders in a certain part of an area or premise based on infrared detection.
poll	An inquiry message continually sent by the control panel to data gathering panels (DGP) and remote arming stations (RAS.) Polling allows the remote unit to transfer data to the control panel.
RAS	(Remote Arming Station) A RAS is the user's control panel for security functions for areas or for access points (doors.) The RAS can be a console (LCD keypad, reader) or any other device that can be used to perform security function, such as arm/ disarm, open doors, etc.
reader	A device used for access control that can read cards to allow access. Depending on the needs and the type of cards, the reader can be a magnetic swipe reader or a proximity reader.
RTE zone	(Request-to-Exit) A zone input that is programmed to activate a door event flag (e.g. a button provided inside a door to allow users to exit without using the door reader.)

shunt	A procedure that automatically stops a zone input from generating an alarm when it is activated (e.g. shunts stop a door from generating an alarm when opened for a short time.)
subordinate alarm group	A subordinate alarm group is one which is identical to another alarm group, except that it has one or more options or menus is de-selected (i.e. it has less permission.)
	For example, if Alarm Group A had every option enabled, and Alarm Group B was identical except for having 'Menu 19 Installer Programming' de-selected (a user associated with Alarm Group B could not use the Installer Programming menu), then Alarm Group B is said to be subordinate to Alarm Group A.
tamper	Tampers are situations where a zone input, arming station, control panel, DGP, or associated wiring are tampered with, or accidentally damaged. The tamper feature activates a signal when tampers occur.
time zone	A program setting, which identifies specific time periods on specific days. Time zones are allocated to functions to control the activity of that function by time and day and are primary used to restrict access (e.g. automatically arm or disarm areas or open doors.)
up/download	A protocol providing means to view the status of a system or change parameters in the system.
user	Anybody making use of the system. Users are identified to the system with a unique number that is associated with the user's PIN code.
zone input	An electrical signal from a security device (PIR detector, door contact) to the system. Each device is identified with a zone input number and name (e.g. 14 Reception Hold-up Button, 6 Emergency Exit Door.)

Installer programming map

Alliance system menu 19, Installer Programming

Legend:

Simple Menu Options
Advanced Menu Options

Option 1, Zone Database

Zone Number

Zone Name
Zone Type
Reporting of Zone
Report to Central Station 1
Report to Central Station 2
Report to Central Station 3
Report to Central Station 4
Enable Audio Listen-In
Enable Engineer Reset on Alarm
Enable Engineer Reset for Tamper Alarms
Disable Bypass of the Zone
Enable Soak Test
Area/Alarm Group Assignment
Test Option
Zone Event Flag
Internal Siren Event Flag
External Siren Event Flag
Keypad Buzzer
Make All Events 24-Hour
Trigger Event Flag 2, Armed Alarm
Trigger Event Flag 3, Armed Alarm
Trigger Event Flag 4, Armed Alarm
Trigger Event Flag 5, Armed Alarm
Trigger Event Flag 6, Armed Alarm
Trigger Event Flag 7, Disarmed Alarm
Trigger Event Flag 8, 24-Hour Alarm

Trigger Event Flag 9, Armed Alarm
Trigger Event Flag 10, Armed Alarm
Trigger Event Flag 11, Armed Alarm
Trigger Zone Event Flag If Active
Trigger Camera Event
Print Zone When Active
Engineer Walk Test
Double Knock
Perimeter zone

Option 2, Area Database

Select Area Number to Program

Area Name
Exit Time
Entry Time
External Siren Event Flag
Internal Siren Event Flag
Area Disarmed Event Flag
Area Active Event Flag
Bypassed Event Flag
Armed Alarm Event Flag
Disarmed Alarm Event Flag
Local Alarm Event Flag
Exit Timer Event Flag
Entry Timer Event Flag
Warning Timer Event Flag
Camera Event Flag
Pre-Alarm Timer Event Flag
Anti-Mask Event Flag
Latched Reset Event Flag
Alarm A Event Flag
Alarm B Event Flag
Out-Of-Hours Time Zone
Area Disarmed Time
Report to Central Station 1
Report to Central Station 2
Report to Central Station 3
Report to Central Station 4

Enable Audio Listen-In

Enable Exit Faults

A and B Alarm Reporting (ACPO)

Disable Arming if All Bypassed

Keybox time

Area Tamper event flag

Option 3, RAS Database

Poll RAS

Select RAS to Program

Area Alarm Group

Menu Alarm Group

Door Event Flag

Output Controller

LCD Arming Station

Code ENTER Toggles Area Status

ENTER Key Opens Door Only

Door Event Flag on Alarm Codes

Display Shunted Zone

Arm/Disarm Using One Key

Cards Auto Disarm

Card Always Arms/Disarms

Reset From RAS Without Code

Alarm Group Restrictions To Disarm Only

Enable Entry/Exit Buzzers

Timed Lockout

Cards Arm After 3 Badges

Disable Status LEDs

3 LED RAS

CARD & PIN (Disarm Only)

RAS Tamper (ACPO) Area

Option 4, DGP Database

Poll DGP

DGP Type

DGP Tamper (ACPO) Area

Option 5, Alarm Groups

Alarm Group Number

Alarm Group Name
Areas Assigned
User Alarm Group
Alarm System Control
List Areas
Keypad Duress
Reset System Alarm
Disable Auto-Unbypass
Arm and Reset Only
Disarm Only
Arm Reset Only
Auto Bypass Active Zones
Forced Arming if Active Zones
Prevent Forced Disarming
Modem Access
Alarm Group Restriction 1
Alarm Group Restriction 2
Alarm Group Restriction 3
Alarm Group Restriction 4
Alarm Group Restriction 5
Alarm Group Restriction 6
Alarm Group Restriction 7 – Emergency
Alarm Group Restriction 8 – Counter
No Arming If Alarm Group Restriction Not Timing
Change Own PIN Only
Allow Stop Voice reporting
System Menus
Alarm Group Time Zone
Alternate Alarm Group

Option 6, Timers

Alarm/Group Restriction 1 Disarmed Time
Alarm/Group Restriction 2 Disarmed Time
Alarm/Group Restriction 3 Disarmed Time
Alarm/Group Restriction 4 Disarmed Time
Alarm/Group Restriction 5 Disarmed Time

Alarm/Group Restriction 6 Disarmed Time

Alarm/Group Restriction 7 Disarmed Time

Alarm/Group Restriction 8 Disarmed Time

Disarm Test Time

Arm Test Time

Warning Time

Disarmed Alarm Delay Time

Suspicion Time

Service Time Available

Local Alarm Reminder Time

Individual Zone Test Time

Door Unlock Time

Testing Event Flag Time

External Siren Set To

Internal Siren Set To

Sirens Delay Set To

AC Fail Delay Time

Delay reporting alarms

A to B Alarm Delay (ACPO)

Screensaver timeout

RAS CARD & PIN Timeout

Double Knock Interval

Double Knock Duration

Option 7, System Options

Areas Selected to Total Disarm

Film Low Level

Film Out Level

Test Mode

Output Controllers

Zone Event Text

Alarm Code Prefix

LCD Text Rotation Delay

LCD Text Rotation Speed

Dual Zone Enabled

Automatic Unbypass

Display Zones

User Name File

System "Tamper" Activates Siren and Strobe

Latching System Alarms

Siren Testing

Disable "0 ENTER" for Camera Reset

Disable Auto Insert of Alarm Group Restriction

Reserved (Do NOT Use)

Disable PIN Code From Displaying

Disable Flashing Area LEDs

Two Users Before Programming Code

Display Alarms Instantly on LCD

Sirens Only After Fail to Report

Financial Institution Options

Display User Flags

Delayed Disarmed Alarm Lockout

Zone Expansion Fitted

Bypass Zone Includes Tamper

Report Multiple Alarms

Report Multiple Restores

Engineer Reset on System Alarms

Engineer Reset on System Tamper

Arming Without Battery

User Can Do Engineering Reset

Engineer Entry Protect

Send Arming After Exit

User Offset

End-of-Line Resistor Code

Duress Mode

Siren Type

Bypass Alarm Report on Exit Fault

Disable Tamper Report in Disarm

Bypass External Siren and Strobe in Disarm Tamper

AL System Code

Soak Test Days

ACPO 2002

EE confirm disable (ACPO)

Engineer Reset on B Alarm Only

NFA2P

Installer dual code

Enable Buzzer on AC/Line fault
Enable "Call Central Station"
Scandinavian Indicators
Enable Log Limitations
Indicate Bypassed Zones
Assign Area
Engineer Reset on ACPO Zone B Tamper
Engineer Reset on ACPO System B Tamper

Option 8, Auto Reset

Auto Reset Time
Reset Alarm Group

Option 9, Communication Options

PBX Number
MSN Number
Dial Tone Detection
Select Tone Dialing
Enable PSTN Line Fault Monitor
Monitor Service Tones
3-Digit SIA Extensions
ISDN Point-to-Point
Enable ISDN Line Fault Monitor
200 Baud Reverse Area Armed/Disarmed (Open/Close)
X25 TEI Value
Audio Listen-In Time (Seconds)
Audio Listen-In Frame Time (Seconds)
Report AC fault
Report Line fault
Enable GSM Line Fault Monitor
Select the Central Station to Program

> **Select the Reporting Format**
> **First Phone Number**
> **Second Phone Number**
> **System Account Number**
> **Area Account Number**
> **BELL Modem**
> **Dual Reporting**

Allow Audio Listen-In
Disable Reporting Bypass
Reserved
XSIA Maximum Characters
X25 Account Code
X25 Line Type
Connection type
Suppress FTC For Voice Reporting
Retry Count

SIA area modifier
X25 D-Bit

Option 10, Program Text

Program Text Words

Option 11, Version Number

Select the Device for Version Information

Option 12, Lamp Test

Option 13, Time Zones

Select Time Zone

Program Start Time, Hours
Program Start Time, Minutes
Program End Time, Hours
Program End Time, Minutes
Days

Option 14, Defaults

Select Default Option

Option 15, Alarm Group Restrictions

Alarm Group Restriction Number

Name
Timed Disarm Areas
Areas to Arm/Reset
1st Alternate Timed Disarm Area
1st Alternate Areas to Arm/Reset
2nd Alternate Timed Disarm Area
2nd Alternate Areas to Arm/Reset

Option 16, Event to Output

Output Number

Event Flag Number
Time Zone to Control Output
Active or Inactive During Time Zone
Invert Output

Option 17, Auto Arm/Disarm

Auto Arm/Disarm Program

Time Zone to Arm/Disarm
Alarm Group to Auto Arm/Disarm

Option 18, Vaults

Option 19, Area Linking

Option 20, System Code

System Code 1
Card Offset 1
System Code 2
Card Offset 2

Option 21, Zone Shunts

Shunt Timer Number

Zone Number to Shunt
Output Number to Start Shunt
Shunt Time
Shunt Warning Time
Shunt Event Flag
Shunt Warning Event Flag
Door Open Command Starts Shunt
Shunt Zone When Disarmed
Shunt Zone When Armed
Cancel Door Event Flag
Zone Holds Event Flag for 2 Seconds
Entry/Exit Shunting
Log Door Open/Close

Option 22, Time Zone to Follow Output

Select Time Zone

Assign Output to Follow

Option 23, Poll Errors

Select Device Type

Option 24, Download to Remote Device

Select Download Option

Display Download Status

Download Options

Option 25, Display Last Card

Options 26 - 27, Reserved

Option 28, To Remote Devices

Select the Device Type

Select the Device to Program

Option 29, Computer Connection

Enable Remote Up/Download

Up/Download if Any Area Armed

Enable Remote Control

Remote Control if Any Area Armed

Use Modem Initialization String

- If YES - Enter 32 Character Modem Initialization String

Report Alarms to Computer

Report Access Events to Computer

Computer Telephone Number

Up/Download Callback Number

Service Telephone Number

Computer Address

Security Password

Security Attempts

Number of Rings Before Answering

Number of Calls Before Answering

Answering Machine Defeat

Reserved

Bell Modem
Connection type

Option 30, Printer

Enable Real Time Printer
Print Alarm Events
Print Access Control Events
Print Data Outside Time Zone
Printer Time Zone
Printer Options

Option 31, Battery Testing

Select Battery Test Program	*or*	*Select Battery Test*
Battery Test Frequency		*Manual Batter Test*
Start Battery Test		*Battery Test Report*
Battery Test Period		*Select DGP Number for Battery Test*
		Manual Battery Test Period

Option 32, Custom LCD Message

Option 33, Program Next Service

Maintenance Date
Maintenance Message

Option 34, Program Event Flags

AC Fail Event Flag
Low Battery Event Flag
Fuse Fail Event Flag
Tamper Event Flag
Siren Fail Event Flag
DGP Bypassed Event Flag
DGP Off-Line Event Flag
RAS Off-Line Event Flag
Duress Event Flag
Film Out Event Flag
Report Fail Event Flag
Test Mode Event Flag
All Armed Event Flag
Keypad Buzzer Event Flag

Dialer active system event flag
Siren test event flag
All armed pulse event flag
Computer Connection event flag
Line fault
Battery test active
Engineer walk test
Engineer walk test reset
System A (ACPO) event flag
System B (ACPO) event flag

Option 35, Program Macro Logic

Program Number

Macro Output Function
Time
Macro Output Triggers Event Flag or Zone
Macro Inputs
Macro Logic Equation

Options 36 – 41 Reserved

Option 42, Reporting Class Database

Select the Reporting Class

Select the Class Condition
Confirm Class Condition
Report to Central Station 1
Report to Central Station 2
Report to Central Station 3
Report to Central Station 4
Enable Audio Listen-In

Option 43, Test Calls

Start Test Call
Test Call Interval
Extend Test Call

Options 44 – 49, Reserved

Option 50, Channel Mapping (not applicable to the US market)

Option 51, Engineering Reset

Option 52, Voice Reporting (not available at this time)

Option 53, Program DVMRe

DVMRe alarm input map
Enable DVMRe Interface
Enable time update
Enable event text insertion
Enable alarm feedback
Enable history search and play
RAS permission

Option 54, Engineer Walk test

Select area

Chapter 5   Support

This chapter provides information to help you contact technical support in case you need assistance with your UTC equipment.

In this chapter:

Contacting technical support

For assistance installing, operating, maintaining, and troubleshooting this product, refer to this document and any other documentation provided. If you still have questions, you may contact technical support during normal business hours (Monday through Friday, excluding holidays, between 5 a.m. and 5 p.m. Pacific Time).

Table 33.   Sales and support contact information

	Sales?	Technical support
Phone	**Toll-free:** 888.437.3287 in the US, including Alaska and Hawaii; Puerto Rico; Canada. Outside the toll-free area: 503.885.5700.	
E-mail	info@utcfireandsecurity.com	
Fax	800.483.2495	541.752.9096 (available 24 hours a day)

Note: Be ready at the equipment before calling for technical support.

Online publication library

Another great resource for assistance with your product is our online publication library. To access the library, go to our website at the following location:

    http://www.utcfireandsecurity.com

In the **Customer Support** menu, select the *Publication Library* link. After you register and log on, you may search through our online library for the documentation you need.[3]

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3.   Many documents are provided as PDFs (portable document format). To read these documents, you will need Adobe Acrobat Reader, which can be downloaded free from Adobe's website at www.adobe.com.