

System Programming Guide (728ULT)

Software Version 4.0

INSTALLER CODE (Default: 282828)

Full access to programming, except user access codes (PINs). No access to arming/disarming. Use only numeric keys from [0] to [9].

ZONE RECOGNITION

Table 1: Zone Recognition

Device connected to which input?	No ATZ	With ATZ
Control Panel		
Input 1 =	Zone 1	Zones 1 & 2
Input 2 =	Zone 2	Zones 3 & 4
Input 3 =	Zone 3	Zones 5 & 6
Input 4 =	Zone 4	Zones 7 & 8
Keypad		
Zone 1 =	Zone 5	Zone 9
Zone 2 =	Zone 6	Zone 10

STREAMLINED SECTION PROGRAMMING

This is an alternate method to Hexa Programming (see page 2). Addresses **000** to **043** and **300** to **527** are grouped into 67 sections where each section contains four addresses (i.e. section **00** = addresses **000** to **003**). Using this method allows you to program 8 digits (4 addresses) without having to exit and reenter addresses.



Note, the keypad will not display the current data in the Streamlined Section Programming method.

Table 2: Streamlined Section Programming Method

- 1) Press [ENTER] + [INSTALLER CODE] (default: 282828) + [7]
- 2) The [ENTER] and [2ND] keys will flash to indicate you are in programming mode
- 3) Enter 2-digit [SECTION] (00 to 67)
- 4) The [ENTER] key will remain on while the [2ND] key will be off
- 5) Enter 8-digit [DATA] to program the section
- 6) The keypad will "beep" to indicate that the section has been programmed, data is saved and the software has advanced to the next section
- 7) Return to step 4 or press [CLEAR] to exit programming mode

KEYPAD TROUBLE DISPLAY

Press the [TBL]/[TRBL] key to view the trouble. Any illuminated keys represent a specific trouble as indicate in Table 3 below. Press the [CLEAR] button to exit the trouble display.

Table 3: Trouble Display

[1] - No Battery or Low Voltage	[7] - Communicator Report Failure
[2] - Power Failure	[8] - Timer Loss* (to clear, see [MEM] key in Table 11 on page 11)
[4] - Bell Output Disconnected	[9] - Tamper or Zone Wiring Failure
[5] - Exceeded Maximum Bell Current	[10] - Telephone Line Monitoring Failure
[6] - Exceeded Maximum Auxiliary Current	[11] - Fire Loop Trouble

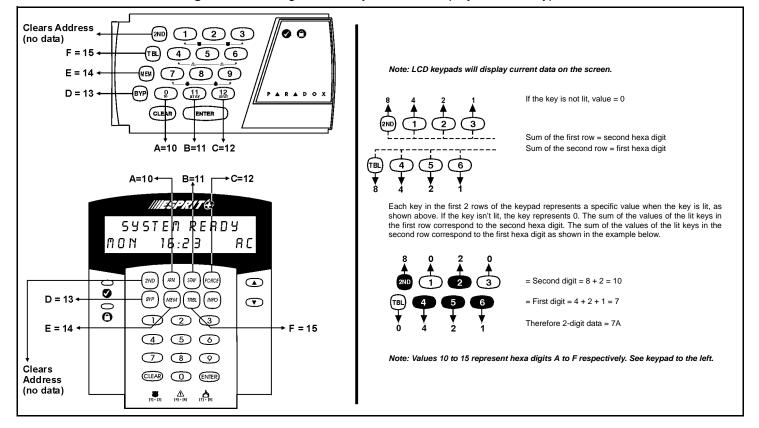
HEXA PROGRAMMING

This is an alternate method to the Streamlined Section Programming (see page 1). Addresses **000** to **043** and **300** to **527** can be programmed using the Hexa Programming method. In this mode, you can enter any hexadecimal digit from 0 - F where keys [1] to [9] represent digits 1 to 9 respectively; the other keys represent hexadecimal digits A to F as shown in Figure 1 below.

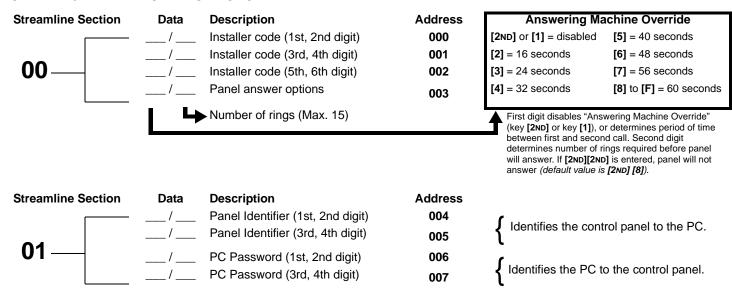
Table 4: Hexa Programming Method

- 1) Press [ENTER] + [INSTALLER CODE] (default: 282828)
- 2) The [ENTER] key will flash indicating you are in programming mode
- 3) Enter the desired 3-digit [ADDRESS]
- 4) The keypad will display the 2-digit data currently saved at this address as described in Figure 1 below
- 5) Enter 2-digit [DATA] and do not press [ENTER], the software automatically saves the data
- 6) Return to step 2 or press [CLEAR] to exit programming mode

Figure 1: Hexa Digit Data Entry and Data Display for LED Keypads



INSTALLER / PANEL ANSWER OPTIONS



TELEPHONE AND ACCOUNT NUMBERS

If only one central station phone number is used, program the same number for telephone number 1 and 2. If only one account number is required, the same number must be entered for both account "A" and "B".

[0] to [9] = numeric value

[BYP] = switch from pulse to tone while dialing

[11] = * [12] = # [MEM] = pause 4 seconds [TRBL] = end of number

Computer Telephone Number (View at addresses 008 to 015)

Streamline Section

Streamline Section

02

//_/_/_/___

03

 Press the [TBL]/[TRBL] key to end phone number if less than 16 digits are programmed.

Central Station Telephone Number 1 (View at addresses 016 to 023)

Streamline Section

Streamline Section

04

1 2 3 4 5 6 7 8

05

__/__/__/__/__/__/__ 9 10 11 12 13 14 15 16 Press the [TBL]/[TRBL] key to end phone number if less than 16 digits are programmed.

Central Station Telephone Number 2 (View at addresses 024 to 031)

Streamline Section

Streamline Section

06

1 2 3 4 5 6 7 8

07

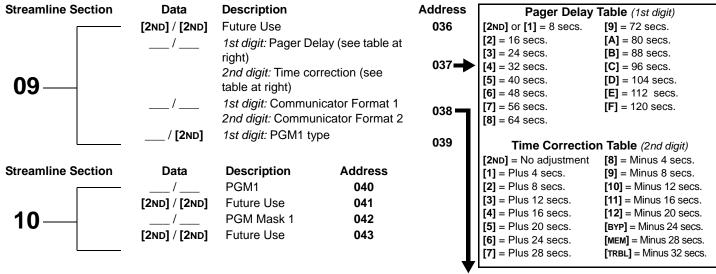
 Press the [TBL]/[TRBL] key to end phone number if less than 16 digits are programmed.

Account "A" and "B" (View at addresses 032 to 035)

Streamline Section

08

//_/_ 1 2 3 4 5 6 7 8 **A B** For 3 digit account numbers, enter "skip" ([2ND]) as first digit.



	A -		
	Communicator Formats (*	= supports 4-	digit account codes only)
Key		Key	
[2ND]	= ADEMCO slow (1400Hz, 1900Hz, 10bps)	[6]	= RADIONICS with PARITY (1400Hz, 40bps)
[1]	= (1400Hz, 1800Hz, 10bps)	[7]	= RADIONICS with PARITY (2300Hz, 40bps)
[2]	= SILENT KNIGHT fast (1400Hz, 1900Hz, 20bps)	[8]	= * ADEMCO express
[3]	= SESCOA (2300Hz, 1800Hz, 20bps)	[9]	= * ADEMCO contact ID (programmable codes)
[4]	= RADIONICS (40bps with 1400Hz handshake)	[10]	= * ADEMCO contact ID (all codes)
[5]	= RADIONICS (40bps with 2300Hz handshake)	[TRBL]	= * PAGER FORMAT (personal dialing)

Programmable Contact ID Event Codes
All addresses from 300 to 527 (sections 11 to 67) programmed with values other than [2ND] [2ND] will report the contact ID codes corresponding to the

values prog	rammed. Values to be programmed	I should be selected from this	table.		
CID	Reporting Code	Prog. Value	CID	Reporting Code	Prog. Value
100:	AUXILIARY ALARM	[2ND] / [1]	300:	SYSTEM TROUBLE	[2] / [2]
110:	FIRE ALARM	[2ND] / [2]	301:	AC Loss	[2] / [3]
111:	FIRE SMOKE	[2ND] / [3]	302:	LOW SYSTEM BATTERY	[2] / [4]
112:	COMBUSTION	[2ND] / [4]	305:	SYSTEM RESET	[2] / [5]
113:	WATER FLOW	[2ND] / [5]	306:	PROGRAM CHANGED	[2] / [6]
114:	HEAT	[2ND] / [6]	309:	BATTERY TEST FAIL	[2] / [7]
115:	PULLSTATION	[2ND] / [7]	320:	SOUNDER/RELAY TROUBLE	[2] / [8]
116:	Duct	[2ND] / [8]	321:	Bell 1 Trouble	[2] / [9]
117:	FLAME	[2ND] / [9]	323:	ALARM RELAY TROUBLE	[2] / [10]
118:	NEAR ALARM	[2ND] / [10]	350:	COMMUNICATION TROUBLE	[2] / [11]
120:	PANIC ALARM	[2ND] / [11]	351:	TELCO 1 FAULT	[2] / [12]
121:	Duress	[2ND] / [12]	354:	FAIL TO COMMUNICATE	[2] / [BYP]
122:	SILENT PANIC	[2ND] / [BYP]	370:	PROTECTION LOOP TROUBLE	[2] / [MEM]
123:	AUDIBLE PANIC	[2ND] / [MEM]	371:	PROTECTION LOOP OPEN	[2] / [TRBL]
130:	Burglary	[2ND] / [TRBL]	372:	PROTECTION LOOP SHORT	[3] / [2ND]
131:	PERIMETER BURGLARY	[1] / [2ND]	373:	FIRE LOOP TROUBLE	[3] / [1]
132:	INTERIOR BURGLARY	[1] / [1]	382:	SENSOR TROUBLE	[3] / [2]
133:	24Hr Burglary	[1] / [2]	383:	SENSOR TAMPER	[3] / [3]
136:	BURGLARY OUTDOOR	[1] / [3]	400:	OPEN / CLOSE	[3] / [4]
137:	BURGLARY TAMPER	[1] / [4]	401:	OPEN / CLOSE BY USER #	[3] / [5]
138:	BURGLARY NEAR ALARM	[1] / [5]	402:	GROUP OPEN / CLOSE	[3] / [6]
140:	GENERAL ALARM	[1] / [6]	403:	AUTOMATIC OPENING / CLOSING	[3] / [7]
150:	24 Hour Auxiliary	[1] / [7]	404:	LATE TO OPEN / CLOSE	[3] / [8]
151:	GAS DETECTED	[1] / [8]	407:	REMOTE ARM DOWNLOAD	[3] / [9]
152:	REFRIGERATION	[1] / [9]	410:	REMOTE ACCESS	[3] / [10]
153:	LOSS OF HEAT	[1] / [10]	441:	OPEN / CLOSE - STAY MODE	[3] / [11]
154:	WATER LEAKAGE	[1] / [11]	570:	BYPASS	[3] / [12]
155:	FOIL BREAK ALARM	[1] / [12]	572:	24 HOUR ZONE BYPASS	[3] / [BYP]
156:	DAY TROUBLE ALARM	[1] / [BYP]	573:	BURGLARY BYPASS #	[3] / [MEM]

574:

601:

602:

625:

654:

GROUP BYPASS

MANUAL TEST

PERIODIC TEST

TIME / DATE RESET

SYSTEM INACTIVITY

[1] / [MEM]

[1] / [TRBL]

[2] / [2ND]

[2] / [1]

157:

158:

159:

161:

Low Gas Level

Loss Air Flow

HIGH TEMPERATURE

LOW TEMPERATURE

[3] / [TRBL]

[4] / [2ND]

[4] / [1]

[4] / [2]

[4] / [3]

REPORTING CODES

All digits from [1] to [F] are valid. [2ND] = digit will not be reported except for Contact ID programmable codes. For single digit reporting, enter "skip" ([2ND]) as the first digit (default = [2ND] / [2ND]).



Enter FF to program the default Ademco Contact ID report code when using the Ademco Contact ID (programmable codes) or Pager report formats.

If the Contact ID Format (all codes) is selected, addresses 300 to 527 (sections 11 to 67) do not have to be programmed. To select Contact ID (all codes) you must set key [10] at section 09/address 038 for both central station numbers (see page 4).

	Data	Description	Address	Streamline Section	Data	Description	Address
	/	Auto / Espload	300	_	/	User Code 23	324
44	/	Master	301	47	/	User Code 24	325
11_	/	User Code 1	302	17 –	/	User Code 25	326
	/	User Code 2	303		/	User Code 26	327
_	/	User Code 3	304	_	/	User Code 27	328
40	/	User Code 4	305	40	/	User Code 28	329
12	/	User Code 5	306	18 –	/	User Code 29	330
	/	User Code 6	307		/	User Code 30	331
_	/	User Code 7	308	_	/	User Code 31	332
43	/	User Code 8	309	40	/	User Code 32	333
13 –	/	User Code 9	310	19 —	/	User Code 33	334
	/	User Code 10	311		/	User Code 34	335
_	/	User Code 11	312		/	User Code 35	336
4.4	/	User Code 12	313	20	/	User Code 36	337
14	/	User Code 13	314	20 –	/	User Code 37	338
	/	User Code 14	315		/	User Code 38	339
_	/	User Code 15	316		/	User Code 39	340
15_	/	User Code 16	317	21 –	/	User Code 40	341
13	/	User Code 17	318	4 1 –	/	User Code 41	342
	/	User Code 18	319		/	User Code 42	343
	/	User Code 19	320		/	User Code 43	344
16	/	User Code 20	321	22	/	User Code 44	345
16 –	/	User Code 21	322	22 –	/	User Code 45	346
	/	User Code 22	323		/	User Code 46	347
					/	User Code 47	348
				22	/	User Code 48 /	349
				23 –		(Duress)	

DISARMING (OPENING) REPORT CODES (reset code "empty")

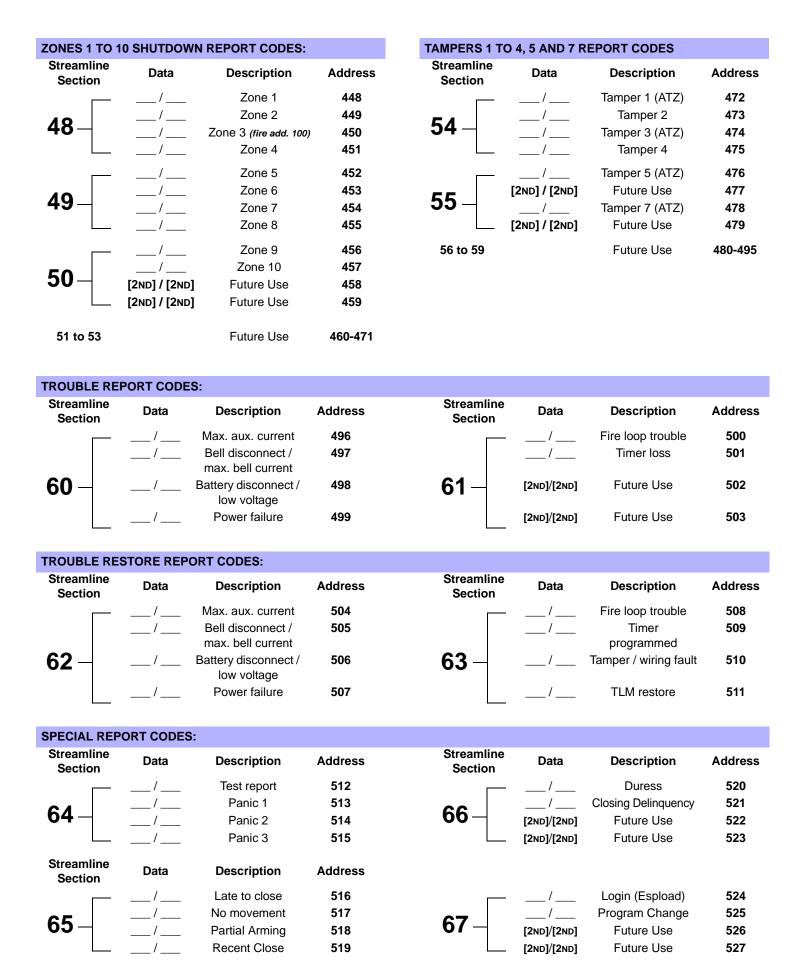
Streamline Section	Data	Description	Address		
00	See previo	us page			
23 –	/	Auto / Espload	350		
	/	Master	351		
_	/	User Code 1	352	/	User Code 25
0.4	/	User Code 2	353		User Code 26
24 –	/	User Code 3	354	30 —	User Code 27
	/	User Code 4	355	<u> </u>	User Code 28
	/	User Code 5	356	<u> </u>	User Code 29
O.F.	/	User Code 6	357	24/_	User Code 30
25 –	/	User Code 7	358	31	User Code 31
	/	User Code 8	359	<u> </u>	User Code 32
_	/	User Code 9	360	<u> </u>	User Code 33
26	/	User Code 10	361	22 -/-	User Code 34
26 –	/	User Code 11	362	32 —	User Code 35
	/	User Code 12	363	<u> </u>	User Code 36
	/	User Code 13	364	<u> </u>	User Code 37
27	/	User Code 14	365	22/	User Code 38
27 –	/	User Code 15	366	33 – – – – – – – – – – – – – – – – – –	User Code 39
	/	User Code 16	367	<u> </u>	User Code 40
	/	User Code 17	368	<u> </u>	User Code 41
20	/	User Code 18	369	24 -/-	User Code 42
28 –	/	User Code 19	370	34 —	User Code 43
	/	User Code 20	371	<u> </u>	User Code 44
	/	User Code 21	372	<u> </u>	User Code 45
20	/	User Code 22	373	25 -/-	User Code 46
29 –	/	User Code 23	374	35 – – – – – – – – – – – – – – – – – – –	User Code 47
	/	User Code 24	375	<u></u>	User Code 48 / (Duress)

ALARM REPORT CODES FOR ZONES 1 TO 10:

Streamline Section	Data	Description	Address
	/	Zone 1	400
20	/	Zone 2	401
36 –	/	Zone 3 (fire add. 100)	402
	/	Zone 4	403
	/	Zone 5	404
27	/	Zone 6	405
37 –	/	Zone 7	406
	/	Zone 8	407
	/	Zone 9	408
20	/	Zone 10	409
38 –	[2ND] / [2ND]	Future Use	410
	[2ND] / [2ND]	Future Use	411
39 to 41		Future Use	412-423

ALARM RESTORE REPORT CODES FOR ZONES 1 TO 10

Streamline Section	Data	Description	Address
_	/	Zone 1	424
40	/	Zone 2	425
42 –	/	Zone 3 (fire add. 100)	426
	/	Zone 4	427
	/	Zone 5	428
40	/	Zone 6	429
43 –	/	Zone 7	430
	/	Zone 8	431
	/	Zone 9	432
4.4	/	Zone 10	433
44 —	[2ND] / [2ND]	Future Use	434
	[2ND] / [2ND]	Future Use	435
45 to 47		Future Use	436-447



DECIMAL PROGRAMMING

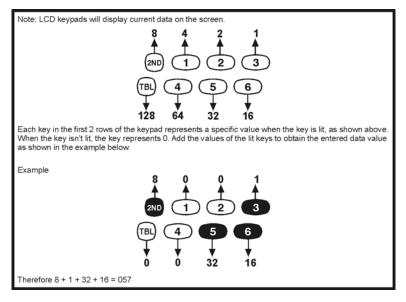
The decimal programming method is used to program all of the system's timers. This method uses a 3-digit address from **044** to **061** and each address is programmed with a value from **000** to **255**.

Table 5: Decimal Programming Method

- 1) Press [ENTER] + [INSTALLER CODE] (default: 282828)
- 2) The [ENTER] key will flash to indicate you are in programming mode
- 3) Enter 3-digit [ADDRESS] (044 to 061)
- 4) The keypad displays the current 3-digit data saved at this address as described in Figure 2 below
- 5) Enter 3-digit [DATA] (000 to 255) and do not press [ENTER], the software will automatically save the data
- 6) Return to step 2 or press [CLEAR] to exit programming mode

Address	Data	Description	Default
044	//	(hours) Auto arm time (between "000" and "023")	
045	//	_ (minutes) Auto arm time (between "000" and "059")	
046	//	(days or hours) Auto test report every? (between "001" and "255") (000 = disabled) If address 090 key [3] OFF = address 046 in days (see page 10) If address 090 key [3] ON = address 046 in hours (see page 10)	
047	//	(hours) Auto test report (between "000" and "023")	
048	//	(minutes) Auto test report (between "000" and "059")	
049	//	_ (seconds) Exit delay	60 seconds
050	//	_ (seconds) Entry delay 1	45 seconds
051	//	_ (seconds) Entry delay 2	45 seconds
052	//	_ (minutes) Bell cut-off time	5 minutes
053	//	_ (x 15 ms) Zone speed	600 ms
054	//	_ (minutes) Power failure report delay (000 = disabled)	30 minutes
055	//	_ (x 15 minutes) "No movement" report time (000 = disabled)	Disabled
056	//	PGM timer setting (001 to 127 for seconds and 129 to 255 for minutes) Add 128 to desired value in minutes (i.e. for 5 minutes: enter 5 + 128 = 133)	5 seconds
057	//	Intellizone delay (in seconds, minimum = 10 seconds)	48 seconds
058	//	Installer code lock (147 = locked, 000 = unlocked). When Installer Lock is enabled on a control panel: For 4 seconds during power up, the STATUS LED flashes while the dialer relay opens and closes making a clicking noise.	
059	//	(seconds) Programmable delay before alarm transmission (005 to 063 seconds)(000 = disabled)	
060	//	_ (seconds) Recent closing delay (000 = disabled)	
061	//	(days or hours) Closing delinquency timer (System A) If address 090 key [3] OFF = address 061 in days (see page 10) If address 090 key [3] ON = address 061 in hours (see page 10)	Disabled

Figure 2: Decimal Display For LED Keypads



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FEATURE SELECT PROGRAMMING

Addresses **062** to **126** are programmed using the Feature Select Programming method. In this method, every key on the keypad in each address represents an option or feature. Pressing a key will display it on the keypad and pressing it again will extinguish the key. The ON or OFF status of each key determines the selected feature. Addresses **080** to **085** are reserved for future use. To program using the Feature Select Programming method:

Table 6: Feature Select Programming Method

- 1) Press [ENTER] + [INSTALLER CODE] (default: 282828)
- 2) The [ENTER] key will flash to indicate you are in programming mode
- 3) Enter 3-digit [ADDRESS] (062 to 126)
- 4) After entering the address, the keypad will display the feature selection status. Turn the keys ON or OFF by pressing the appropriate key until the desired options are set. Press the [ENTER] key to accept, there will be a confirmation "beep" indicating the options have been accepted. The [ENTER] key will flash to indicate that the software is awaiting the next address entry.
- 5) Return to step 3 to continue programming or press [CLEAR] to exit programming mode

Table 7: Code Priority For System "A" / STAY

	KEY SELECT:	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[BYP]	[MEM]	[TRBL]	[2ND]
	User #:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
062																	
	User #:	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
064																	
	User #:	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
066:																	

Table 8: Code Priority For System "B" / AWAY

	KEY SELECT:	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[BYP]	[MEM]	[TRBL]	[2ND]
	User #:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
068:																	
	User #:	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
070:																	
	User #:	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
072:																	

Table 9: Code Priority for Codes with Bypass Access

	KEY SELECT:	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[BYP]	[MEM]	[TRBL]	[2ND]
	User #:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
074:																	
	User #:	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
076:																	
	User #:	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
078:																	

		KEY			Telephone Line Monitoring (TLM)
086:	OFF	1	ON	_	KEY
See "TLM" table at right		[2ND]			[2ND] [1]
See TEM table at right		[1]			OFF OFF - TLM disabled OFF ON - TLM generates trouble only
Keyswitch = regular arm		[2]		Stay arm / System A	ON OFF - generates an alarm if armed
Keyswitch arming		[3]		Enabled	ON - silent alarm becomes audible
Call back		[4]		Enabled	(address 086 , key [9] has to be OFF)
Auto arm on time		[5]		Enabled	
Auto arm on no movement		[6]		Enabled	Reporting Options
Pulse dialing		[7]		Tone dialing (DTMF)	, , ,
Partitioning		[8]		Enabled	KEY [11] [12]
Silent zone/panic generates a silent alarm		[9]		generates only a report	OFF OFF - Reporting disabled
(1:2) Pulse Europe		[10]		(1:1.5) Pulse USA	OFF ON - Regular reporting
		[11]		¬` '	ON OFF - Split* reporting (Alarms & System) ON ON - Double reporting
See "Reporting Options" table at right				\longrightarrow	' "
N/A		[12]		_ N/A	Report Dialing Sequence (tel. no.) Regular: 1,2,1,2,1,2,1,2, fail to comm.
		[BYP]			Split*: Alarms - 1,1,1,1,1,1,1, fail to comm
Bell squawk on arm/disarm		[MEM]		Enabled	System - 2,2,2,2,2,2,2, fail to comm Double: 1,1,1,1,1,1,1, fail to comm
Auto zone shutdown		[TRBL]		Enabled	2,2,2,2,2,2,2, fail to comm
					* On alarm, all reports are made to Tel. #1 until system is
000-	055	KEY	6 11		disarmed. Once disarmed, system reports are made to Tel. #2.
088:	OFF	/ [2):p1	ON	Fachlad	
Automatic event buffer transmission		[2ND]		Enabled	
Panic 1 (keys [1] and [3])		[1]		Enabled	
Panic 2 (keys [4] and [6])		[2]		Enabled	Tamper / Wire Fault Definitions
Panic 3 (keys [7] and [9])		[3]		Enabled	KEY
Panic 1 silent		[4]		Audible	System Armed [10] [11] System Disarmed* Alarm as per OFF OFF - Tamper supervision
Panic 2 silent		[5]		Audible	Alarm as per OFF OFF - Tamper supervision individual zone disabled
Panic 3 silent		[6]		Fire	definitions
Key [10] - regular arming		[7]		Enabled	OFF ON - No alarm, trouble code reported
Key [11] - stay or system A arm		[8]		Enabled	trouble and ON OFF - Silent alarm.
6-digit access codes		[9]		4-digit access codes	alarm, audible or Trouble & alarm silent as per codes reported
Tamper Recognition		[10]			individual zone ON ON - Audible alarm.
ramper Necognition		[11]			definitions Trouble & alarm codes reported**
Beep on exit delay		[12]		Enabled	'
Report zone restore on bell cut-off		[BYP]		On zone closure	* Exception: for 24 hour zones, the tamper definition will follow the audible/silent alarm definition of the 24
Zones with EOL (1kΩ)		[MEM]		No EOL	hour zone.
Always report disarm		TRBL		Only after alarm	** Silent zones will generate a silent alarm.
000-	055	KEY	6 11		
090:	OFF	/ [2):p1	ON	Fachlad	
Exclude power failure from trouble display		[2ND]		Enabled	* NOTE 1. When ATT is anabled (address 000 key [9] ON)
Zone 4 enabled* Auto arm = regular arm		[1]		Disabled* Stay / System A	* NOTE 1: When ATZ is enabled (address 090 key [8] ON) and zone 3 is defined as a fire zone, zone 4 must be
· ·		[2]			disabled.
Auto test report / Closing delinquency timer in days		[3]		In hours	
Restrict arming on battery failure		[4]		Enabled	
Restrict arming on tamper trouble**		[5]		Enabled**	
No tamper bypass		[6]		Tamper follows zone byp	pass definition
Zone doubling (ATZ) wiring in series		[7]		Parallel	\
Zone doubling (ATZ)		[8]		Enabled	** NOTE 2: Only the installer can clear a tamper trouble
Audible trouble warning		[9]		Enabled	2. 2. only the metaller sun order a tumper trouble
Duress		[10]		Enabled	
Keypad zone 1 supervision		[11]		Enabled	
Keypad zone 2 supervision		[12]		Enabled	
Master code lock		[12] [BYP]		Enabled	
Pager format (wait delay)				Personal dialing (during	delay)
Pager report alarms only		[MEM]		All events	aciay,
r agor roport alarms offly	\Box	[TRBL]		/ III CVCITIO	

Table 10: Zone Definition

Addr	ess KEY SELECT:	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]
	Zone:	1	2	3	4	5	6	7	8	9	10
092:	Intellizone = ON										
	Zone:	1	2	3	4	5	6	7	8	9	10
096:	Silent = ON										
	Zone:	1	2	3*	4	5	6	7	8	9	10
100:	24Hr./Fire = ON										
A	Keypad zones cannot be set as 24Hr. zones.	*When zone 3 is defined "24Hr.", it becomes a fire zone									
	Zone:	1	2	3	4	5	6	7	8	9	10
104:	Instant = ON										
	Zone:	1	2	3	4	5	6	7	8	9	10
108:	$Follow = \mathbf{ON}$										
	Zone:	1	2	3	4	5	6	7	8	9	10
112:	Delay 2 = ON										
		SYSTEM A / STAY (if ON, zone is armed on Stay or "System A" arming)									
	Zone:	1	2	3	4	5	6	7	8	9	10
116:											
		SYSTEM B (if ON, zone is armed in "System B" arming)									
	Zone:	1	2	3	4	5	6	7	8	9	10
120:											
	Zone:	1	2	3	4	5	6	7	8	9	10
124:	Bypass = ON										



Do not use the Intellizone feature and an entry delay for the same zone, otherwise an alarm may occur as a user tries to disarm the system. Zones that are not selected at addresses 100 to 112 become "Delay 1" zones.

KEY ACCESS PROGRAMMING

Programs features quickly, without entering addresses or sections numbers. To activate Key Access Programming, press [ENTER] followed by the installer code, master code or user code 1 (code required depends on the desired feature; see below). Press the key corresponding to the desired feature. Press [ENTER] or [CLEAR] to exit. When communicating with Espload, it is impossible to enter programming mode.

Table 11: Key Access Programming

Key	Feature	Codes that can access feature
[8]	Installer Test Mode In Installer Test mode, a confirmation beep (intermittent) indicates that the test mode is enabled. A rejection beep indicates that the test mode is disabled. The bell will squawk during walk testing to indicate opened, functional zones.	Installer Code Only
[9]	"Auto Arming" Time Program Key [9] flashes. Enter 2-digit hour (00 to 23) and 2-digit minutes (00 to 59).	Installer Code, Master Code or User Code 1
[МЕМ]	Panel Time Programming [MEM] key flashes. Enter 2-digit hour (00 to 23) and 2-digit minutes (00 to 59).	Installer Code, Master Code or User Code 1
[BYP]	Test Report Reporting is enabled at address 086 , keys [11] and [12] (see page 10). A value must be entered at address 512 (page 7) and both telephone and account numbers must be programmed.	Installer Code, Master Code or User Code 1
[TRBL]	Call Espload Via Telephone Panel identifier and PC password (addresses 004 to 007 on page 2) and computer telephone number (addresses 008 to 015 on page 3) must be programmed.	Installer Code, Master Code or User Code 1
[AWAY]	Answer Espload This feature is available when using the ADP-1 adapter. In Espload, "blind dial" must be activated in "modem setup" section and panel phone number programmed.	Installer Code, Master Code or User Code 1
[STAY]	Cancel Communication Attempts Until next reportable event.	Master Code/User Code 1 only cancel calls to Espload The Installer Code can cancel all communications

CONNECTION DIAGRAMS

The system hardware will recognize the following zone conditions:

SINGLE ZONE CONNECTIONS

Figure 3: N.C. Contacts, without EOL Resistor

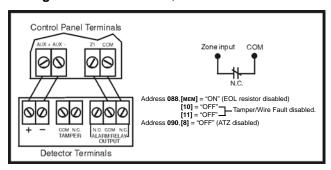


Figure 5: N.O. Contacts, with EOL Resistor (UL/ULC)

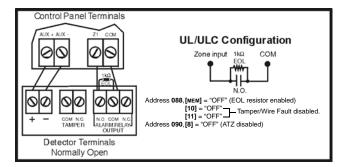


Figure 7: N.C. Contacts, with EOL resistor, with Tamper and Wire Fault Recognition (UL/ULC)

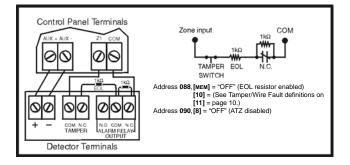


Figure 4: N.C. Contacts, with EOL Resistor (UL/ULC)

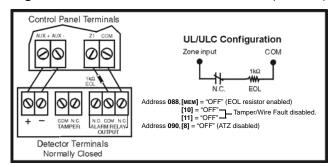


Figure 6: N.C. Contacts, without EOL Resistor, with Tamper Recognition

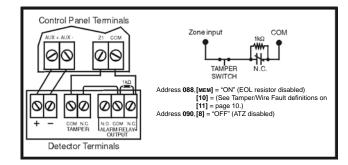


Figure 8: N.C. Contacts, without EOL Resistor

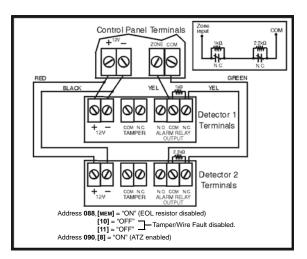


Figure 10: N.O. Contacts, with EOL Resistor, with Tamper and Wire Fault Recognition (UL/ULC)

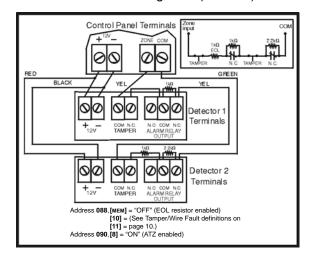


Figure 9: N.C. Contacts, without EOL Resistor, with Tamper Recognition

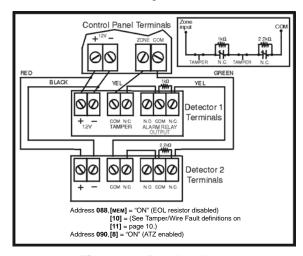
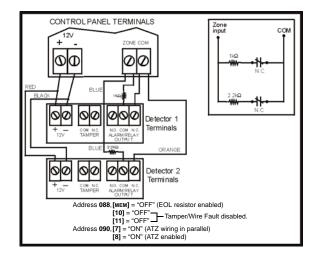


Figure 11: Parallel Wiring



OTHER CONNECTION DIAGRAMS

Figure 12: Connecting One Keypad Zone

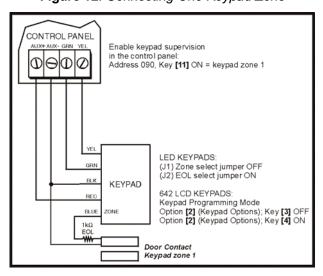


Figure 13: Connecting Two Keypad Zones Using Two Keypads

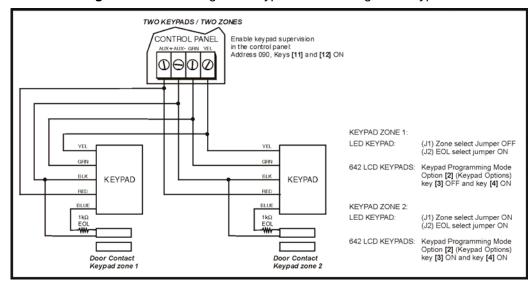


Figure 14: Keypad Tamper Switch Connection

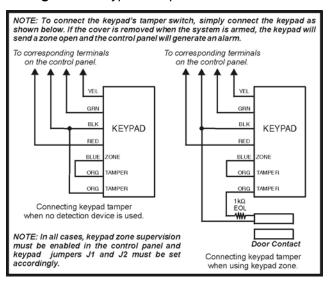


Figure 15: PGM Output Relay

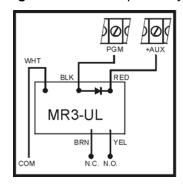


Figure 16: Ground Start Circuit

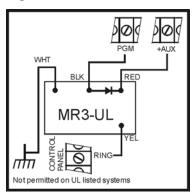


Figure 17: Fire Alarm Zone Connections

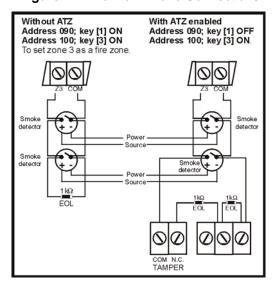
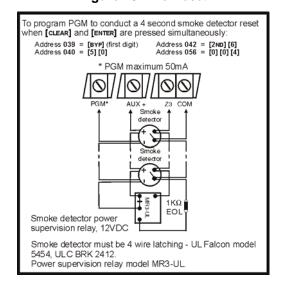


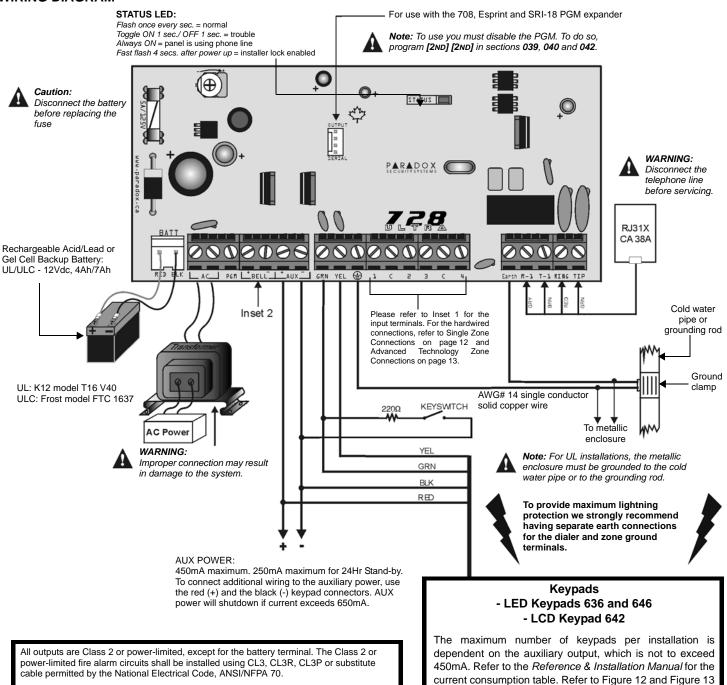
Figure 18: Fire Reset



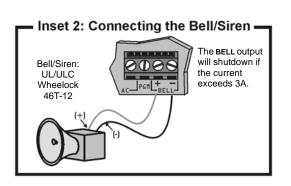


Note: It recommended that the smoke detectors be connected using a daisy chain configuration.

WIRING DIAGRAM



Inset 1: Zone Recognition for the 728 Ultra with ATZ Enabled Control Panel Terminals Control Panel Terminals Zone 5 Zone 1 Zone 3 Zone 7 (1k) (1k) (1k) (1k) Zone 6≨ Zone 2 ≤ **≶Zone 4** (2,2k) **≶Zone 8** (2.2k)(2.2k)(2.2k)(2.2k)



on pages 13 and 14 for information on keypad zone

connections.

POWER DOWN RESET

Performing a power down reset will set the installer and master codes to factory default. Values entered at addresses 008 to 043, 062 to 124, 300 to 527 and all user codes will be set to factory defaults. Programmed values at addresses 004 to 007 do not change. To perform a reset, the installer lock must be disabled. To perform a power down reset perform the following:

- Verify installer lock is disabled
- 2) Remove the battery and AC power from the control panel.
- 3) Short the **PGM** and zone **1** terminals with a wire.
- 4) Reconnect the AC and battery power to the control panel.
- 5) Wait 10 seconds and remove the wire.

Figure 19: Power Down Reset

