

ESPRI728 PROGRAMMING GUIDE



SOFTWARE VERSION 1.0

BENCH TEST

Refer to Connection (Wiring) Diagram.

Note: [] indicates keypad key i.e. [2], [ENTER], [CLEAR], [MEM].
Shaded addresses are not applicable. Any values must be entered i.e. [2ND].

- To set zones in non-alarm state (keypad zone lights off), install **green** (1K OHM) resistors across zone terminals.
- Connect keypad. Install **green** (1K OHM) resistor across keypad zone.
- Connect sounder or install **green** (1K OHM) resistor across "BELL" terminal.
- Connect AC, connect battery.
- [TRBL] key illuminates, due to timer loss. Push [TRBL] to view trouble conditions, (see Keypad Trouble Display).
- All keypad lights should be off and keypad should respond to Master code arming and disarming.
- Master Code: *default 474747*.
- Keypad Programming (*default installer code 747474*).

N.B.: If serial communication is required (i.e. the panel is used with another module 708, 708DV, SRI-18, etc.), PGM1 **must** be disabled: enter [2ND] [2ND] at addresses 196 and 198.

KEYPAD TROUBLE DISPLAY

Key "ON" =

- | | |
|----------------------------|-----------------------------------|
| [1] No battery/low voltage | [7] Communicator report failure |
| [3] AC failure | [8] Timer loss* |
| [4] Bell disconnect | [9] Tamper or zone wiring failure |
| [5] Maximum bell current | [10] Telephone line failure |
| [6] Max auxiliary current | [11] Fire loop trouble |

*To clear timer loss trouble, see *Key Access Programming* [MEM].
Press [CLEAR] to clear troubles.

HEXA PROGRAMMING

(Used to program "Access to Upload/Download" and "Installer Code")
All digits from 0 to F are valid. (See Interpreting Hexa Values)

Programming values are programmed into memory locations from address 000 to 007.

- Press [ENTER] + installer code (default 747474)
- Key [ENTER] will flash (programming mode)
- Enter 3 digit memory address
- Enter 2 digit data (See Hexa Display to read value)
- To erase, press [CLEAR]. To save press [ENTER]
- Go to step 3 for next address

To exit programming mode press [CLEAR]

ACCESS TO UPLOAD/DOWNLOAD:

000: [2ND] / ____ Number of rings before answer (*default 8 rings*)
Enter "[2ND][2ND]" panel will not answer.

PANEL IDENTIFIER (*default code "empty"*)

001: ____ / ____ 002: ____ / ____

PC PASSWORD (*default code "empty"*)

003: ____ / ____ 004: ____ / ____

INSTALLER CODE: (*default code 747474*)

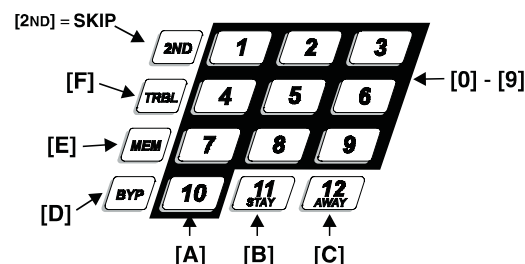
Full access to programming, (all addresses except 008-058)
No access to arming/disarming and access code programming
(can be used to modify installer code)

Important: Use only numeric keys from [1] to [10] (key [10] = 0) to enter installer code.

005: ____ / ____ 006: ____ / ____ 007: ____ / ____

INTERPRETING HEXA VALUES

KEY	HEXA VALUE	DECIMAL VALUE
[1] - [9]	1 - 9	1 - 9
[10]	A	0
[11]	B	11
[12]	C	12
[BYP]	D	13
[MEM]	E	14
[TRBL]	F	15
[2ND]	skip, null, not programmed	



HEXA DISPLAY

If key is lit = 8 = 4 = 2 = 1



If key is lit = 8 = 4 = 2 = 1

No display = SKIP (empty)

10 = [0] = [A]

Value of
2ND digit = 10
(8 + 2 = 10)

Value of
1ST digit = 3
(2 + 1 = 3)
VALUE = "30"

No light = 0

STREAMLINED (SECTION) HEXA PROGRAMMING

(Used to program sections 00 to 34)

To begin programming

Press [ENTER] + installer code + [2] [7]. ([ENTER] and [2ND] keys will flash)

Enter 2 digit section number for programming (00 - 34) ([ENTER] key is "steady" and [2ND] key is "off")

Enter 8 digit to program the section. Keypad will beep verifying completion of section programming. Data is saved and the next section is advanced to automatically for programming.

To select a specific section press [CLEAR] or [ENTER]. ([ENTER] and [2ND] keys will flash).

Enter 2 digit section number (00-34) ([ENTER] key is "steady" and [2ND] key is "off").

To exit programming mode press [CLEAR].

TELEPHONE AND ACCOUNT NUMBERS: (default empty)

[TRBL] must end the phone number if less than 16 digits are programmed.

If only one central station phone number is used, the same number must be programmed for telephone number 1 and 2.

Special instructions can be entered in the telephone numbers using the following keys:

- [10] = the number "0"
- [11] = *
- [12] = #
- [BYP] = switch from pulse to tone while dialing
- [MEM] = pause 4 seconds
- [TRBL] = end of number

Streamlined (section) programming = [ENTER] + installer + [2], [7]

COMPUTER TELEPHONE NUMBER: (View at addresses 060 to 067.)

00 / / / / / / / 01 / / / / / / /

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

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

CENTRAL STATION TELEPHONE NUMBER 1: (View at addresses 068 to 075.)

02 / / / / / / / 03 / / / / / / /

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

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

CENTRAL STATION TELEPHONE NUMBER 2: (View at addresses 076 to 083.)

04 / / / / / / / 05 / / / / / / /

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

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

ACCOUNT "A" AND "B": (View at addresses 084 to 087.)

06 / / / / / /

1 2 3 4 5 6 7 8

A B

For 3 digit account number, enter "skip" ([2ND]) as first digit.

If only one account number is required, the same number must be entered for both account "A" and "B".

REPORTING CODES: (default code "empty")

All digits from [1]-[F] are valid. [2ND] (SKIP) = digit is not reported.

Streamlined (section) programming: [ENTER] + installer code + [2], [7].

IMPORTANT: If the **ONLY** reporting format selected at address **194** is "contact I.D." (key [10] - all codes), there is no need to program any values for addresses **088 - 193**. (See Contact I.D. Format, page 5)

ARMING (closing) CODES:

Streamline section	Data	Description	Address
07	—/—	User code 1	088
	—/—	User code 2	089
	—/—	User code 3	090
	—/—	User code 4	091
08	—/—	User code 5	092
	—/—	User code 6	093
	—/—	User code 7	094
	—/—	User code 8	095
09	—/—	User code 9	096
	—/—	User code 10	097
	—/—	User code 11	098
	—/—	User code 12	099
10	—/—	User code 13	100
	—/—	User code 14	101
	—/—	User code 15	102
	—/—	User code 16	103

DISARMING (opening) CODES:

Streamline section	Data	Description	Address
11	—/—	User code 1	104
	—/—	User code 2	105
	—/—	User code 3	106
	—/—	User code 4	107
12	—/—	User code 5	108
	—/—	User code 6	109
	—/—	User code 7	110
	—/—	User code 8	111
13	—/—	User code 9	112
	—/—	User code 10	113
	—/—	User code 11	114
	—/—	User code 12	115
14	—/—	User code 13	116
	—/—	User code 14	117
	—/—	User code 15	118
	—/—	User code 16	119

ALARM CODES ZONE 1 TO 12:

Streamline section	Data	Description	Address
15	—/—	Zone 1	120
	—/—	Zone 2	121
	—/—	Zone 3	122
	—/—	Zone 4	123
16	—/—	Zone 5	124
	—/—	Zone 6	125
	—/—	Zone 7 <i>KYPD1</i>	126
	—/—	Zone 8 <i>KYPD2</i>	127
17	—/—	Zone 9	128
	—/—	Zone 10	129
	—/—	Zone 11	130
	—/—	Zone 12	131

ALARM CODES ZONE 13 TO 24:

Streamline section	Data	Description	Address
18	[2ND]/[2ND]	Zone 13	132
	[2ND]/[2ND]	Zone 14	133
	[2ND]/[2ND]	Zone 15	134
	[2ND]/[2ND]	Zone 16	135
19	[2ND]/[2ND]	Zone 17	136
	[2ND]/[2ND]	Zone 18	137
	[2ND]/[2ND]	Zone 19	138
	[2ND]/[2ND]	Zone 20	139
20	[2ND]/[2ND]	Zone 21	140
	[2ND]/[2ND]	Zone 22	141
	[2ND]/[2ND]	Zone 23	142
	[2ND]/[2ND]	Zone 24	143

In a partitioned system, zone 7 to 12 report with account "B" and are assigned to system "B".

For single digit reporting enter "skip" ([2ND]) as first digit.

REPORTING CODES: (default code "empty").

All digits from [1]-[F] are valid.

[2ND] (SKIP) = digit is not reported.

Streamlined (section) programming: [ENTER] + installer code + [2], [7].

ZONE 1 TO 12 RESTORE CODES:

Streamline section	Data	Description	Address
21	<u> </u> / <u> </u>	Zone 1	144
	<u> </u> / <u> </u>	Zone 2	145
	<u> </u> / <u> </u>	Zone 3	146
	<u> </u> / <u> </u>	Zone 4	147
22	<u> </u> / <u> </u>	Zone 5	148
	<u> </u> / <u> </u>	Zone 6	149
	<u> </u> / <u> </u>	Zone 7 <i>KYPD1</i>	150
	<u> </u> / <u> </u>	Zone 8 <i>KYPD2</i>	151
23	<u> </u> / <u> </u>	Zone 9	152
	<u> </u> / <u> </u>	Zone 10	153
	<u> </u> / <u> </u>	Zone 11	154
	<u> </u> / <u> </u>	Zone 12	155

ZONE 13 TO 24 RESTORE CODES:

Streamline section	Data	Description	Address
24	[2ND]/[2ND]	Zone 13	156
	[2ND]/[2ND]	Zone 14	157
	[2ND]/[2ND]	Zone 15	158
	[2ND]/[2ND]	Zone 16	159
25	[2ND]/[2ND]	Zone 17	160
	[2ND]/[2ND]	Zone 18	161
	[2ND]/[2ND]	Zone 19	162
	[2ND]/[2ND]	Zone 20	163
26	[2ND]/[2ND]	Zone 21	164
	[2ND]/[2ND]	Zone 22	165
	[2ND]/[2ND]	Zone 23	166
	[2ND]/[2ND]	Zone 24	167

In a partitioned system, zones 7 to 12 report with account "B" and are assigned to system "B".

TROUBLE CODES:

Streamline section	Data	Description	Address
27	<u> </u> / <u> </u>	Maximum auxiliary current	168
	<u> </u> / <u> </u>	Bell disconnect / max. bell current	169
	<u> </u> / <u> </u>	Battery disconnected / low voltage	170
	<u> </u> / <u> </u>	No AC / low AC	171
28	<u> </u> / <u> </u>	Program change	172
	<u> </u> / <u> </u>	Timer loss	173
	<u> </u> / <u> </u>	Fire loop trouble	174
	<u> </u> / <u> </u>	Test report	175

TROUBLE RESTORE CODES:

Streamline section	Data	Description	Address
29	<u> </u> / <u> </u>	Maximum auxiliary current	176
	<u> </u> / <u> </u>	Bell disconnect	177
	<u> </u> / <u> </u>	Battery disconnected / low voltage	178
	<u> </u> / <u> </u>	No AC / low AC	179
30	<u> </u> / <u> </u>	Tamper / wiring fault	180
	<u> </u> / <u> </u>	Timer programmed	181
	<u> </u> / <u> </u>	Fire loop trouble	182
	<u> </u> / <u> </u>	TLM trouble restore	183

For single digit reporting enter "skip" ([2ND]) as first digit.

REPORTING CODES: (default code "empty").

All digits from [1]-[F] are valid.

[2ND] (SKIP) = digit is not reported.

Streamlined (section) programming: [ENTER] + Installer code + [2], [7].

SPECIAL CODES - FORMATS - PGM:

Streamline section	Data	Description	Address
31	<u> </u> / <u> </u>	Panic 1	184
	<u> </u> / <u> </u>	Panic 2	185
	<u> </u> / <u> </u>	Panic 3	186
	<u> </u> / <u> </u>	Partial arming	187
32	<u> </u> / <u> </u>	Auto / Espload arm	188
	<u> </u> / <u> </u>	Arm with master code	189
	<u> </u> / <u> </u>	No movement*/ late to close	190
	<u> </u> /[2ND]	Tamper on zones 1-3**	191
2nd digit: any value must be entered i.e. [2ND]			
33	<u> </u> / <u> </u>	Disarm with Espload	192
	<u> </u> / <u> </u>	Disarm with master code	193
	<u> </u> / <u> </u>	1st digit: telephone 1 format	194
	<u> </u> / <u> </u>	2nd digit: telephone 2 format	
34	<u> </u> /[2ND]	1st digit: PGM 1 TYPE	195
	<u> </u> / <u> </u>	2nd digit: any value must be entered i.e. [2ND]	
	<u> </u> / <u> </u>	PGM 1 (1st and 2nd digit)	196
	[2ND]/[2ND]	PGM 2 (1st and 2nd digit)	197
34	<u> </u> / <u> </u>	PGM 1 (3rd and 4th digit)	198
	[2ND]/[2ND]	PGM 2 (3rd and 4th digit)	199

TYPICAL PGM OUTPUTS

Addresses 196-199 (section 34)

FUNCTION	DESCRIPTION	TYPE	HEXA PROG.	
			Address	Address
** Ground start Pulse (Timed N.O.)	*Provides 3 sec. pulse before communication attempt	5	5/2	[2ND]/8
Push key [1] and [2] (Regular N.O.)	Provides output when keys [1] and [2] are pressed simultaneously.	1	5/8	[2ND]/6
System armed (Regular N.C.)	Output removed when system armed.	9	2/B	[2ND]/8
Strobe output (Regular N.O.)	Provides latching output on alarm, until disarmed.	1	2/C	[2ND]/2
Fail to communicate (Timed N.O.)	*Provides output upon fail to communicate for 2 minutes.	5	2/6	[2ND]/4
2 nd telephone line relay (Regular N.O.)	Provides output after one failed communication attempt.	[2ND]	7/A	[2ND]/E
Kiss off (Timed N.O.)	*Provides 3 sec. output after signal received at monitoring station.	5	7/D	[2ND]/8
Time output (Timed N.O.)	*Provides 3 sec. output every day at 8PM.	6	2/3	1/4
Fire reset (Timed N.C.)	*[TRBL] + [11] Provides 4 sec. to reset detectors after alarm.	[BYP]	5/3	2/[2ND]

Times must be programmed at address 254.*****Not permitted on UL listed systems**CONTACT I.D. FORMAT**

Address 194 (section 33, key [9], [10])

If CONTACT I.D. (ALL CODES) is selected, (address 194, key [10]), all addresses from 088 to 193, programmed or not, will report Contact I.D. event codes. (Refer to "Contact I.D. event code" list, Installation Manual) Programming is not required for these addresses when **ONLY** this format is used.

If CONTACT I.D. (SELECTED CODES) is chosen, (address 194, key [9]), all addresses from 088 to 193, programmed with ANY VALUE except [2ND] [2ND], will report Contact I.D. event report codes. (Refer to "Contact I.D. event code" list, Installation Manual)

(Potential application: to report in Contact I.D. format to one central station number, and 4/2 format to the second. Use 4/2 format to program addresses. At address 194, select a 4/2 format for one telephone number, and Contact I.D. format for the second. The software will automatically convert the 4/2 codes to Contact I.D. codes when transmitting them to the second receiver.)

COMMUNICATOR FORMAT

Address 194 (section 33)

KEY

[2ND]	= ADEMCO slow (1400Hz, 1900Hz, 10bps)
[1]	= (1400Hz, 1800Hz, 10bps)
[2]	= SILENT KNIGHT fast (1400Hz, 1900Hz, 20bps)
[3]	= SESCOA (2300Hz, 1800Hz, 20bps)
[4]	= RADIONICS (40bps with 1400Hz handshake)
[5]	= RADIONICS (40bps with 2300Hz handshake)
[6]	= RADIONICS with PARITY (1400Hz, 40bps)
[7]	= RADIONICS with PARITY (2300Hz, 40bps)
[8]	= ADEMCO express
[9]	= ADEMCO contact ID (selected codes)
[10]	= ADEMCO contact ID (all codes)
[TRBL]	= DTMF - no handshake (personal dialing)

IMPORTANT:**Dialer circuit is patent pending.****PGM TYPE**

Address 195 (section 33)

KEY

[2ND] : OR	} Reg N.O.	[8] : OR	} Reg N.C.
[1] : AND		[9] : AND	
[2] : EQUAL		[10] : EQUAL	
[4] : OR	} Timed N.O.	[12] : OR	} Timed N.C.
[5] : AND		[BYP] : AND	
[6] : EQUAL		[MEM] : EQUAL	

(For timed PGM see also address 254)

* No movement for specified time or panel not armed at specified hour - see addresses 245, 246, 253.

** 1st digit of zone tamper is reported with 2nd digit of zone 1 - 3 alarm codes - see addresses 120 - 131.

FEATURE SELECT (LIGHT ON/OFF) PROGRAMMING

Feature selection programming addresses to The "ON"/"OFF" status of the lights (keys) determines features selected.

- 1) Press + installer code (default 747474). key will flash.
- 2) Enter 3 digit memory address (to).
- 3) Press corresponding key to select option.
- 4) To change selection press key again.
- 5) To save press .
- 6) Repeat steps 3 to 5 for addresses to
- 7) To exit programming mode press

Note: Default = "OFF" for addresses to

CODE PRIORITY																	
KEY SELECT: [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [BYP] [MEM] [TRBL] [2ND]																	
200:	SYSTEM "A" / STAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
202:	SYSTEM "B" / AWAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
204:	Codes with bypass access	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

206:

See "TLM" Table.....

PS1/Keyswitch = regular arm / (A + B).....

PS1/keys switch arming

Call back

Auto arm on time

Auto arm on no movement

Pulse dialing

Partitioning

Silent zone/panic generates a silent alarm

(1:2) PULSE EUROPE

See "REPORTING" Table

Answering machine override

Bell squawk on arm/disarm

Auto zone shut-down

KEY		OFF / ON	
☐	[2ND]	☐	
☐	[1]	☐	
☐	[2]	☐	stay arm / System A
☐	[3]	☐	enabled
☐	[4]	☐	enabled
☐	[5]	☐	enabled
☐	[6]	☐	enabled
☐	[7]	☐	Tone dialing (DTMF)
☐	[8]	☐	enabled
☐	[9]	☐	generates only a report
☐	[10]	☐	(1:1.5) PULSE USA
☐	[11]	☐	
☐	[12]	☐	
☐	[BYP]	☐	enabled
☐	[MEM]	☐	enabled
☐	[TRBL]	☐	enabled

TLM TABLE (TLM = Telephone Line Monitor)

Address 206, Key [2nd] [1]

KEY		[2ND] [1]	
OFF	OFF	—	TLM disabled
OFF	ON	—	TLM generates trouble only
ON	OFF	—	generates an alarm if armed
ON	ON	—	silent alarm becomes audible

(address 206, key [9] has to be OFF)

REPORTING TABLE

Address 206, Key [11] [12]

KEY		TYPE		DIALING SEQUENCE (tel. No.)	
[11]	[12]				
OFF	OFF	—	Reporting disabled		
OFF	ON	—	Regular reporting	— 2,1,2,1,2,1,2,1, fail to comm.	
ON	OFF	—	Split reporting: Alarms*	— 1,1,1,1,1,1,1,1, fail to comm.	
			System report	— 2,2,2,2,2,2,2,2, fail to comm.	
ON	ON	—	Double reporting	— 2,2,2,2,2,2,2,2, fail to comm., 1,1,1,1,1,1,1,1, fail to comm.	

* On alarm, all reports are made to Tel. #1 until the system is disarmed.
(Once disarmed system reports are made to Tel. #2)

208:

Call PC when event list is full

Panic 1 (keys [1] & [3], PS1)

Panic 2 (keys [4] & [6])

Panic 3 (keys [7] & [9])

Panic 1 silent (PS1)

Panic 2 silent

Panic 3 silent

Key [10] regular arm / (A + B)

Key [11] stay or system A arm

6 digit access codes

See "Tamper/Wire Fault Definition Table"

Beep on exit delay

Report zone restore on bell cut-off

Zones with EOL green (1KΩ)

Always report disarm

KEY		OFF / ON	
☐	[2ND]	☐	enabled
☐	[1]	☐	enabled
☐	[2]	☐	enabled
☐	[3]	☐	enabled
☐	[4]	☐	audible
☐	[5]	☐	audible
☐	[6]	☐	fire
☐	[7]	☐	enabled
☐	[8]	☐	enabled
☐	[9]	☐	4 digit
☐	[10]	☐	
☐	[11]	☐	
☐	[12]	☐	enabled
☐	[BYP]	☐	on zone closure
☐	[MEM]	☐	no EOL
☐	[TRBL]	☐	only after alarm

TAMPER / WIRE FAULT DEFINITION TABLE

Address 208, Key [10] [11]

SYSTEM ARMED		KEY		SYSTEM DISARMED*	
		[10]	[11]		
Alarm as per individual zone definitions		— OFF	OFF	Disabled	
Always generate trouble and alarm, audible or silent as per individual zone definitions		— OFF	ON	No alarm, trouble code reported	
		— ON	OFF	Silent alarm and trouble codes reported	
		— ON	ON	Audible alarm and trouble codes reported**	

*Exception: for 24 hour zones the tamper definition will follow the audible/silent alarm definition of the 24 hour zone.

**Silent zones will generate a silent alarm

FEATURE SELECT (LIGHT ON/OFF) PROGRAMMING

Feature selection programming addresses to The "ON"/"OFF" status of the lights (keys) determines features selected.

- 1) Press + installer code (default 747474). key will flash.
- 2) Enter 3 digit memory address (to).
- 3) Press corresponding key to select option.
- 4) To change selection press key again.
- 5) To save press .
- 6) Repeat steps 3 to 5 for addresses to
- 7) To exit programming mode press

Note: Default = "OFF" for addresses to

210:

	KEY	OFF / ON
Exclude AC from trouble display	☐ [2ND]	☐ enabled
Zone 6	☐ [1]	☐ disabled (in case of fire zone 3 only)
Auto arm = regular arm / (A + B)	☐ [2]	☐ stay arm
Arming regular	☐ [3]	☐ auto away
Arm-inhibit on batt fail	☐ [4]	☐ enabled
Arm-inhibit on tamper*	☐ [5]	☐ enabled
No tamper bypass	☐ [6]	☐ tamper follows zone bypass definition
Only bypass code reported on bypass arming	☐ [7]	☐ enabled
Zone doubling (ATZ)	☐ [8]	☐ enabled
Audible trouble warning	☐ [9]	☐ disabled

*Only installer can clear tamper trouble.

ZONE DEFINITION: (default = " ")																									
KEY SELECT: [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12]												[1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12]													
212	1	2	3	4	5	6	7	8	9	10	11	12	214	Zones 13 to 24 are not available.											
Fast = ON	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
216	1	2	3	4	5	6	7	8	9	10	11	12	218	Zones 13 to 24 are not available.											
Silent = ON	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
220	1	2	3	4	5	6	7	8	9	10	11	12	222	Zones 13 to 24 are not available.											
24 Hr./ Fire = ON	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
*When zone 3 is defined "24 Hour" it becomes a fire zone																									
224	1	2	3	4	5	6	7	8	9	10	11	12	226	Zones 13 to 24 are not available.											
Instant = ON	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
228	1	2	3	4	5	6	7	8	9	10	11	12	230	Zones 13 to 24 are not available.											
Follow = ON	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
232	1	2	3	4	5	6	7	8	9	10	11	12	234	Zones 13 to 24 are not available.											
Delay 2 = ON	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
236	1	2	3	4	5	6	7	8	9	10	11	12	238	Zones 13 to 24 are not available.											
Bypass enabled = ON	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
240	SYSTEM A					SYSTEM B							242**	Zone Swap											
If ON, zone is ARMED on stay or split arming	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	N/A						
	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		

NOTE: Zones not selected at addresses 220 to 234 are "Delay 1" zones.

**See installation manual "Partitioning"

Zone Swap					
[1]	1↔7	[4]	4→10		
[2]	2↔8	[5]	5→11		
[3]	3→9	[6]	6→12		

Recommended for use with partitioned systems only.

3 DIGIT DECIMAL VALUE PROGRAMMING

Decimal value programming addresses **244** to **255**. Values entered must contain 3 digits.

- 1) Press **[ENTER]** + installer code (default 747474) (**[ENTER]** key will flash)
- 2) Enter 3 digit address (**244** to **255**)
- 3) Enter 3 digit **DECIMAL** value (See Decimal Value Display to read value)
- 4) To erase, press **[CLEAR]**. To save press **[ENTER]**
- 5) Go to step 2 for next address. To exit programming mode press **[CLEAR]**

(values entered at addresses "**244** - **255**" contain 3 digits between "000" and "255") (**[10]** = 0)

244: __/__/__ (days) Auto test report every ? days (between "001" and "255") (000=disabled)

245: __/__/__ (hours) Auto test report / Auto arm time (between "000" and "023")

246: __/__/__ (minutes) Auto test report / Auto arm time (between "000" and "059")

247: __/__/__ (seconds) Exit delay (default **60** seconds)

248: __/__/__ (seconds) Entry delay 1 (default **45** seconds)

249: __/__/__ (seconds) Entry delay 2 (default **45** seconds)

250: __/__/__ (minutes) Bell cut-off time (default **5** minutes)

251: __/__/__ (x 15 mSec.) Slow zone speed (default **600** mSec.)

252: __/__/__ (minutes) AC report delay (default **30** minutes) (000=disabled)

253: __/__/__ (x 15 minutes) Time for "No Movement" Report (000=disabled) (default **8** hours)

254: __/__/__ PGM timer setting: 001 to 127 for seconds and 129 to 255 for minutes (default **5** seconds).
Add 128 to desired value in minutes (i.e.for 5 minutes:enter 5 + 128 = 133)

255: __/__/__ Installer lock (**147** = locked, **000** = unlocked) (default **unlocked**)

DECIMAL VALUE DISPLAY

If key is lit = 8 = 4 = 2 = 1 Total value (57)
 2ND **1** **2** **3** (8 + 1 + 32 + 16 = 57)
 TRBL **4** **5** **6**
 If key is lit = 128 = 64 = 32 = 16 No light = 0

KEY ACCESS PROGRAMMING

*Several panel features can be programmed quickly, without entering addresses or programming section numbers. Select "one-key access" programming mode by pressing **[ENTER]**, followed by the installer, master or user 1 code (depending on the feature you wish to activate, only certain codes will be functional). Then press the single key (listed below) corresponding to the feature you wish to enable.*

key

- [9]** "Auto arming" time program (accessible to master and user 1 only)
Enter two digits (00 to 23) for hours + 2 digits (00 to 59) for minutes + **[ENTER]**.
- [MEM]** "Panel time" and clear "trouble 8" (all 3 codes)
Enter two digits (00 to 23) for hours + 2 digits (00 to 59) for minutes + **[ENTER]**
- [BYP]** Test report (all 3 codes)
Reporting is enabled at address **206** keys **[11]**, **[12]**. A value must be entered at address **175**, and both telephone and account numbers must be programmed.
- [TRBL]** Call Espload via telephone (all 3 codes)
Panel and PC ID numbers (addresses **001-004**) and PC download phone number (addresses **060-067**) must be programmed.
- [AWAY]** Answer Espload (all 3 codes)
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 (works also without ADP-1).
- [STAY]** Cancel communication attempts (master code and user 1 can only stop calls from/to Espload)
Until next reportable event (installer code - all communications)
- [STAY]** Reset to default panel settings (installer code only)
Connect reset jumper. Press **[ENTER]** + installer code + **[STAY]**, remove reset jumper.
- [2], [6]** Installer test mode (installer code only)
In installer test mode, a confirmation beep (intermittent) indicates test is "on", a "rejection" beep (long) indicates test is "off". The bell will squawk during walk testing to indicate opened, functional zones.
- [2], [7]** Streamlined value entry (installer code only)

Note: When communicating with Espload, it is impossible to enter programming mode.

CHANGE MASTER AND USER CODES

(default master **474747**)

[ENTER] + master code + code number (2 digits) + new code (4 or 6 digits, 0 to 9) + **[ENTER]**.

Use **[2ND]** to erase a code.

Master code = 00 ([10][10]) Full access to all system functions.

User codes = 01-16 (01 - can modify access codes. All user code priorities can be programmed at addresses **200, 202, 204** with the installer code.)

Note: **[2ND]** key flashes if location is empty.

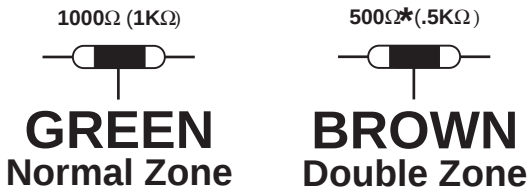
To erase a code: **[ENTER]** + master + code number + **[2ND]** + **[ENTER]**.

AT ONE IDENTIFICATION TABLE

Input Terminal #	Zone #'s (without ATZ)	ATZ zone #'s (double zones) <i>green (1KΩ) brown (.5KΩ)</i>	
1/4	1	1	4
2/5	2	2	5
3/6	3*	3*	6

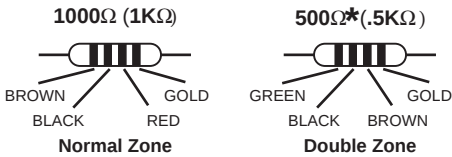
*Fire zone when programmed "24 hour"

RESISTOR GUIDE



*If unavailable, a 510 Ω is acceptable

RESISTOR GUIDE (ALTERNATE)



*If unavailable, a 510 Ω is acceptable

ESPRIT 728 CONNECTION DIAGRAMS

The system hardware will recognize the following conditions for each zone:

ADVANCED TECHNOLOGY ZONE connection, 1 zone resistor (without EOL), tamper recognition (N.C. contacts)

address **208**, key [MEM] = "on"

key [10] = See "Tamper/wire Fault Definitions and Options"

key [11] =

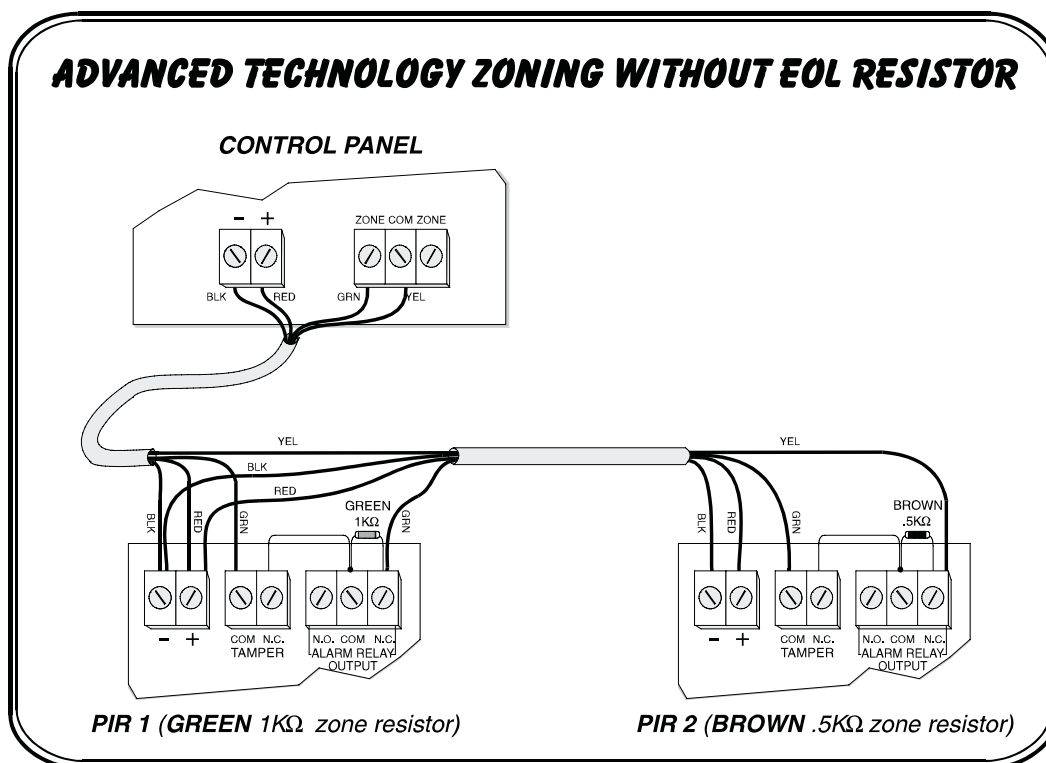
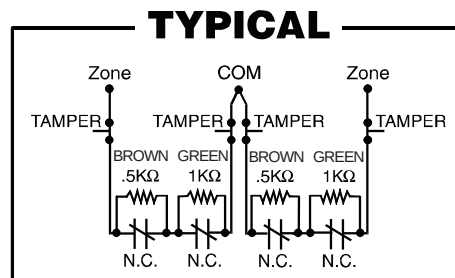
address **210**, key [8] = "on"

Tamper fault transmits separate code

Each zone transmits separate alarm code, see "TYPICAL"

4 Alarm zones

2 Tamper signals



SINGLE ZONE connection without EOL resistor (N.C. contacts)

address **208**, key [MEM] = "on"

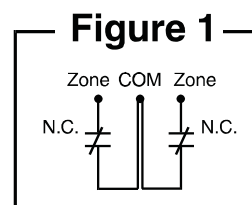
key [10] = "off" (default)

key [11] = "off" (default)

address **210**, key [8] = "off"

N.C. contacts see Figure 1

Note: Keypad zones always use **green** (1K OHM) EOL



SINGLE ZONE connection with 1 EOL resistor (N.C. and N.O. contacts)

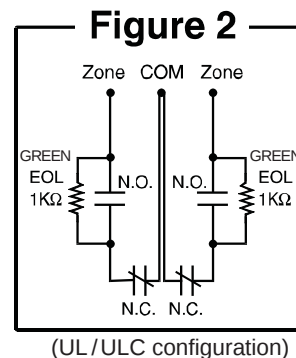
address **208**, key [MEM] = "off" (default)

key [10] = "off" (default)

key [11] = "off" (default)

address **210**, key [8] = "off"

N.C. and/or N.O. contacts, see Figure 2



SINGLE ZONE connection with 1 EOL resistor, tamper recognition (N.C. contacts)

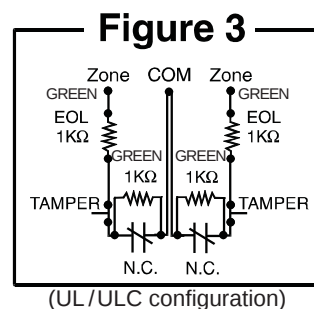
address **208**, key [MEM] = "off"

key [10] = See "Tamper/wire Fault Definitions and Options"

key [11] =

address **210**, key [8] = "off"

Tamper fault transmits separate code, see Figure 3



ADVANCED TECHNOLOGY ZONE connection, 2 zones with zone resistors, 1 EOL resistor green (1KΩ) tamper (open) recognition, wire fault (short circuit) recognition (N.C. contacts)

address **208**, key [MEM] = "off"

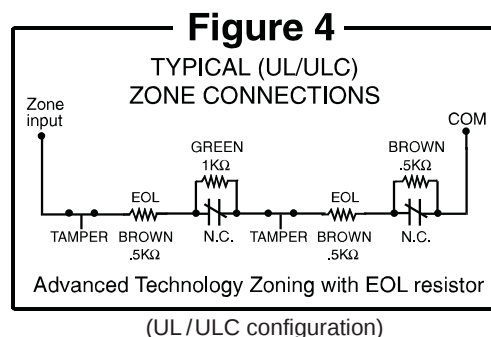
key [10] = See "Tamper/wire Fault Definitions and Options"

key [11] =

address **210**, key [8] = "on"

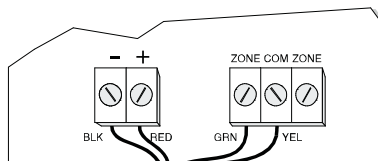
Each zone transmits a separate alarm code.

Tamper/wire fault transmits a separate alarm code, indicated by fast flashing zone light on keypad and is annunciated in **Espload**, see figure 4.



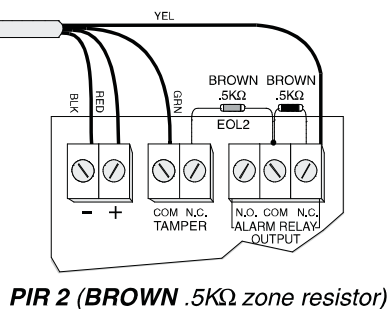
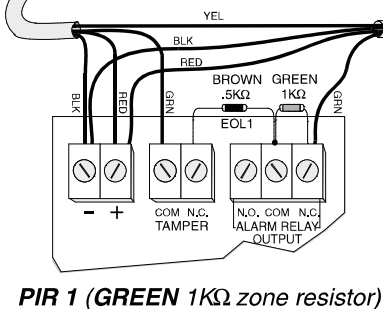
ADVANCED TECHNOLOGY ZONING WITH EOL RESISTOR

CONTROL PANEL



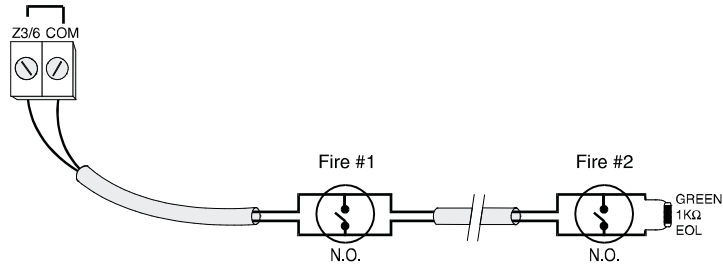
UL/ULC Configuration

*Note: Jumper can be installed instead of **BROWN (0.5KΩ) EOL1**. Change EOL2 on PIR 2 to **GREEN (1KΩ)**. Total EOL equals **GREEN (1KΩ)**.

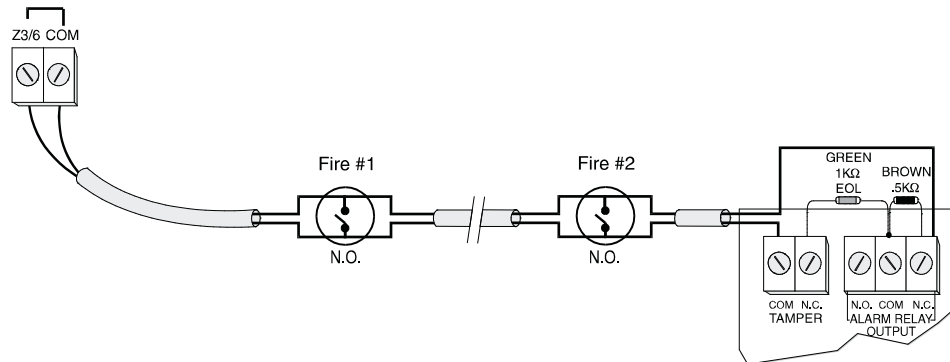


DOUBLE FIRE LOOP

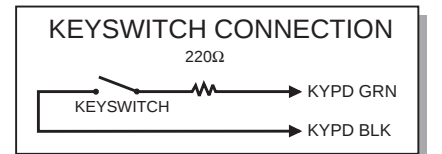
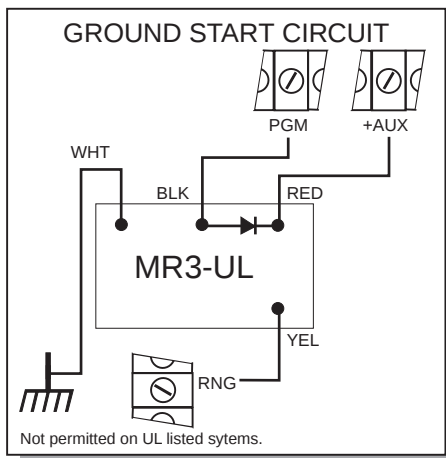
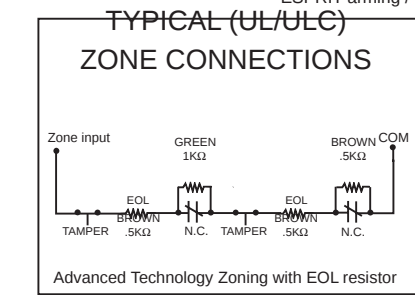
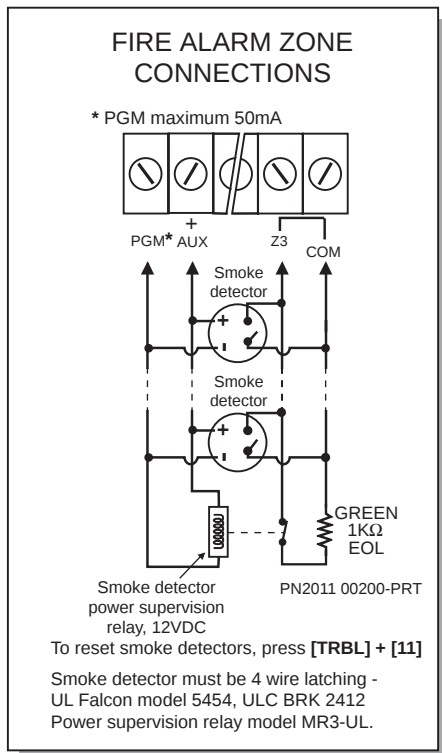
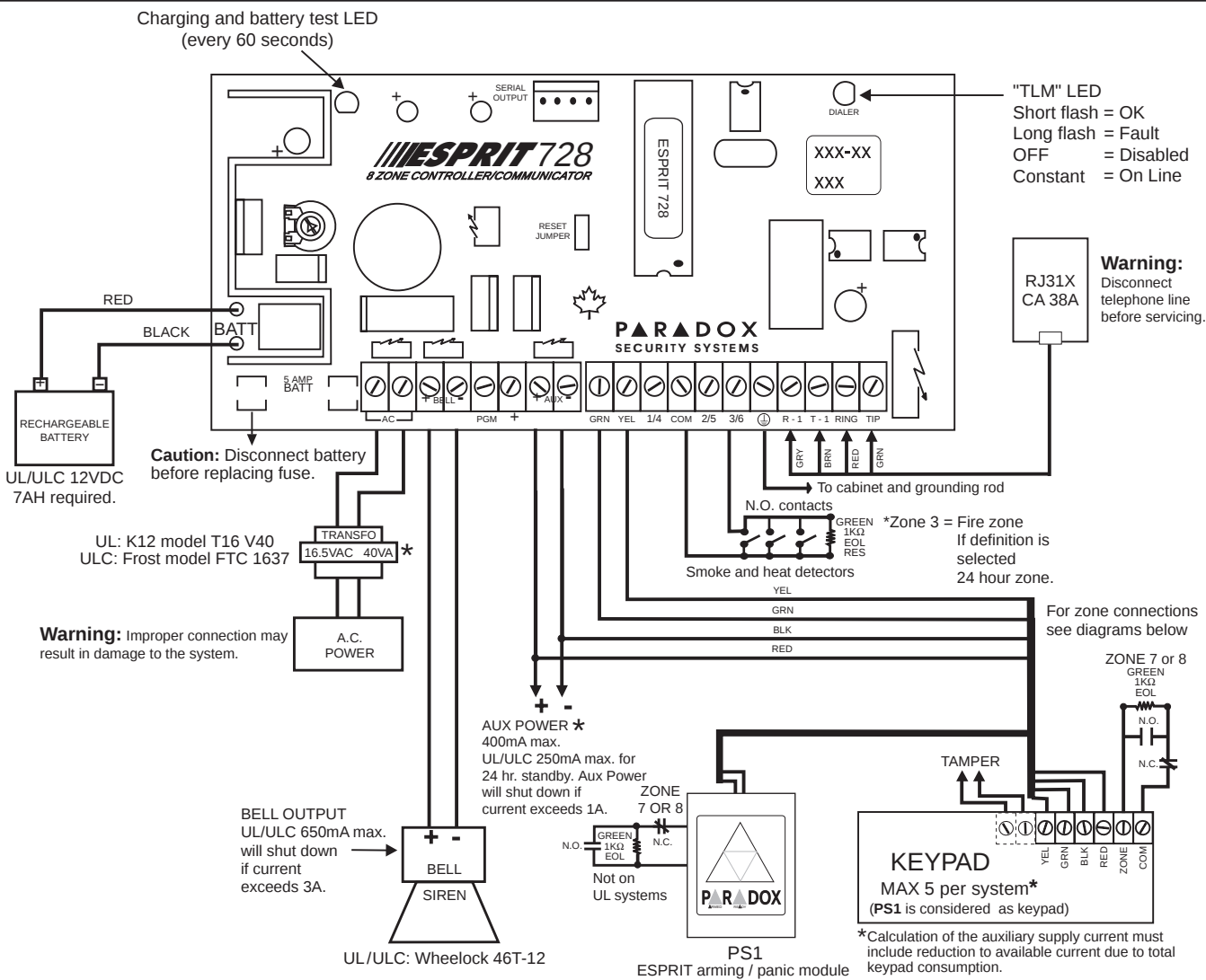
Without zone 6 (address 210, key [1] = ON)



With zone 6 (address 210, key [1] = OFF)



ESPRIT 728 WIRING DIAGRAM



Keyswitch can be used in parallel with keypad (or PS1), (not on UL systems).

