////ESPRIT 728 EXPRESS PROGRAMMING GUIDE

USER FRIENDLY

SOFTWARE VERSION 2.20

CONTROL PANEL RESET:

Installer lock must be unlocked.
*(Address **255**: enter any value other than 147)*

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**.

Power down reset

(1) Remove battery and AC to power down the unit.
(2) Connect a jumper between "reset jumper" pins.
(3) Connect AC and/or battery.
(4) Wait 3 seconds.
(5) Remove jumper.

Factory default installer and master codes will be reinstated. Values entered at addresses **059**-**243**, as well as all user codes, will be erased (**[2ND] [2ND]**). Programmed values of all other addresses do not change.

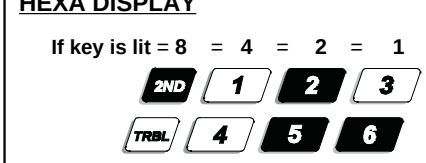
PANEL ANSWER OPTIONS:

ADDRESS 000: ____/____ (factory default **[2ND]**, **[8]**)

Answering machine override 2nd call time:
[2ND] or **[1]** answering machine override disabled.
[2] = 16 sec. **[3]** = 24 sec. **[4]** = 32 sec.
[5] = 40 sec. **[6]** = 48 sec. **[7]** = 56 sec.
[8] to **[F]** = 60 sec.
Entering **[2ND] [2ND]** - Panel will not answer.

Number of rings before answer:
Value entered determines number of rings before answer.

HEXA DISPLAY



Value of 2ND digit = **10** (**8** + **2** = **10**)
Value of 1ST digit = **3** (**2** + **1** = **3**)
VALUE = "**3A**"
No display = **SKIP** (empty)
10 = **[0]** = **[A]**
No light = **0**

PANEL IDENTIFIER:

001: ____/____ **002:** ____/____

PC PASSWORD:

003: ____/____ **004:** ____/____

INSTALLER CODE: *(reset code **727272**)*

Full access to programming, except access codes. (addresses **008-058**) No access to arming/disarming. Can be used to modify installer code. Use only numeric keys from **[1]** to **[10]**. (key **[10]** = 0)

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

INTELLIZONE DELAY:

ADDRESS 059: ____/[2ND]

Dialer circuit is patent pending.

First digit: (factory default **[3]**)

[1] = 16 sec.	**[5]** = 80 sec.	**[9]** = 144 sec.	**[BYP]** = 208 sec.
[2] = 32 sec.	**[6]** = 96 sec.	**[10]** = 160 sec.	**[MEM]** = 224 sec.
[3] = 48 sec.	**[7]** = 112 sec.	**[11]** = 176 sec.	**[TRBL]** = 240 sec.
[4] = 64 sec.	**[8]** = 128 sec.	**[12]** = 192 sec.	**[2ND]** = 256 sec.

STREAMLINED SECTION PROGRAMMING

Can be used to program sections 00 to 34. (addresses **060** to **199**)
Press **[ENTER]** + installer code + **[2] [7]**. (**[2ND]** + **[ENTER]** flashes alternately.)
Enter a 2-digit section number, followed by 8 digits to program that section (confirmation beep). Data will be saved automatically and the software advances to the next programming section. To exit programming mode press **[CLEAR]**.

TELEPHONE AND ACCOUNT NUMBERS: *(reset **empty**)*

Press **[TRBL]** at the end of a phone number if less than 16 digits are programmed.
If only one central station phone number is used, program the same number for telephone number 1 and 2.

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

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

Streamline section

00 __ / __ / __ / __ / __ / __ / __ / __
1 2 3 4 5 6 7 8

Streamline section

01 __ / __ / __ / __ / __ / __ / __ / __
9 10 11 12 13 14 15 16

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

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

Streamline section

02 __ / __ / __ / __ / __ / __ / __ / __
1 2 3 4 5 6 7 8

Streamline section

03 __ / __ / __ / __ / __ / __ / __ / __
9 10 11 12 13 14 15 16

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

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

Streamline section

04 __ / __ / __ / __ / __ / __ / __ / __
1 2 3 4 5 6 7 8

Streamline section

05 __ / __ / __ / __ / __ / __ / __ / __
9 10 11 12 13 14 15 16

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

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

Streamline section

06 ___ / ___ / ___ / ___ ___ / ___ / ___ / ___
1 2 3 4 5 6 7 8
A **B**

For 3 digit account numbers, 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: (reset code = “empty" **[2ND] [2ND]**)

All digits from **[1]** to **[F]** are valid. Enter **[2ND]** (skip) = digit will not be reported.

If CONTACT I.D. format (all codes) is selected, sections 07 to 32 are preprogrammed and do not have to be programmed.

(Select Contact I.D for both central station numbers at section **33** - address **194** - key **[10]**.)

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**

REPORTING CODES: *(reset code "**empty**")*

ALARM CODES ZONE 1 TO 6:

Streamline section	Data	Description	Address
15	___/___	Zone 1	**120**
	___/___	Zone 2	**121**
	___/___	Zone 3 ***(fire)***	**122** ***(See add. 220)***
	___/___	Zone 4	**123**

Streamline section	Data	Description	Address
16	___/___	Zone 5	**124**
	___/___	Zone 6	**125**
	[2ND]/[2ND]	N/A	**126**
	[2ND]/[2ND]	N/A	**127**

Sections **17** to **20** are not available. Streamline software advances automatically from section **16** to **21**.

RESTORE CODES ZONE 1 TO 6:

Streamline section	Data	Description	Address
21	___/___	Zone 1	**144**
	___/___	Zone 2	**145**
	___/___	Zone 3	**146**
	___/___	Zone 4	**147**

Streamline section	Data	Description	Address
22	___/___	Zone 5	**148**
	___/___	Zone 6	**149**
	[2ND]/[2ND]	N/A	**150**
	[2ND]/[2ND]	N/A	**151**

Sections **23** to **26** are not available. Streamline software advances automatically from section **22** to **27**.

TROUBLE CODES:

Streamline section	Data	Description	Address
27	___/___	Max. auxiliary current	**168**
	___/___	Bell disconnect/ max. bell current	**169**
	___/___	Battery disconnected/ low voltage	**170**
	___/___	Power failure	**171**

Streamline section	Data	Description	Address
28	___/___	Program change	**172**
	___/___	Timer loss	**173**
	___/___	Fire loop trouble	**174**
	___/___	Test report	**175**

TROUBLE RESTORE CODES:

Streamline section	Data	Description	Address
29	___/___	Max. auxiliary current	**176**
	___/___	Bell disconnect	**177**
	___/___	Battery disconnected/ low voltage	**178**
	___/___	Power failure	**179**

Streamline section	Data	Description	Address
30	___/___	Tamper/wiring fault	**180**
	___/___	Timer programmed	**181**
	___/___	Fire loop trouble	**182**
	___/___	TLM trouble restore	**183**

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

REPORTING CODES: (continued)

*(reset code "**empty**")*

SPECIAL CODES - FORMATS - PGM:

Streamline section	Data	Description	Address
31	___/___	Panic 1	**184**
	___/___	Panic 2	**185**
	___/___	Panic 3	**186**
	___/___	Partial arming	**187**
32	___/___	Auto / Esplod arm	**188**
	___/___	Arm with master code	**189**
	___/___	No Movement*/ late to close	**190**
	___/[2ND]	Tamper on input 1-4** 2nd digit: value must be entered i.e. **[2ND]**	**191**

Streamline section	Data	Description	Address
33	___/___	Disarm with Esplod	**192**
	___/___	Disarm with master code	**193**
	___/___	1st digit: telephone 1 format 2nd digit: telephone 2 format	**194**
	___/[2ND]	1st digit: PGM 1 **TYPE** 2nd digit: any value must be entered i.e. **[2ND]**	**195**
34	___/___	PGM 1 (1st, 2nd digit)	**196**
	[2ND]/[2ND]	N/A	**197**
	___/___	PGM 1 (3rd, 4th digit)	**198**
	[2ND]/[2ND]	N/A	**199**

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

****1st digit of zone tamper is reported with 2nd digit on input 1-4 alarm codes - see addresses 120 - 123.**

COMMUNICATOR FORMATS

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)

FEATURE SELECT PROGRAMMING

*Addresses **200** to **2 2.** "ON"/"OFF" status of the key lights determines feature selection.*

In programming mode, enter 3 digit memory address (**200 to 242**).
To save entries, press **[ENTER]**.
To exit programming mode press **[CLEAR]**.
*Reset = "OFF" for addresses **200** to **2 2***

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 ☐

FEATURE SELECT PROGRAMMING (continued)

(On/off status of key lights determines which feature is selected.)

206:

	KEY		
Telephone line monitor	[2ND] / [1]		
PS1/Keyswitch = regular arm / (A + B)	[2]	stay arm / System A	
PS1/keyswitch arming	[3]	enabled	
Call back	[4]	enabled	
Auto arm on time	[5]	enabled	
Auto arm on no movement	[6]	enabled	
Pulse dialing	[7]	Tone dialing (DTMF)	
Partitioning	[8]	enabled	
Silent zone/panic generates a silent alarm	[9]	generates only a report	
(1:2) PULSE EUROPE	[10]	(1:1.5) PULSE USA	
Reporting options	[11] / [12]		
N/A	[BYP]	N/A	
Bell squawk on arm/disarm	[MEM]	enabled	
Auto zone shut down	[TRBL]	enabled	

TELEPHONE LINE MONITOR

Address 206, Key [2ND] [1]

KEY [2ND]	KEY [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 OPTIONS

Address 206, Key [11] [12]

KEY [11]	KEY [12]	TYPE	DIALING SEQUENCE (tel. No.)
OFF	OFF	– Reporting disabled	
OFF	ON	– Regular reporting	–1,2,1,2,1,2,1,2, 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	–1,1,1,1,1,1,1,1, fail to comm., 2,2,2,2,2,2,2,2, fail to comm.

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

208:

	KEY		
Automatic event buffer transmission	[2ND]	enabled	
Panic 1 (keys **[1]** & **[3],** PS1)	[1]	enabled	
Panic 2 (keys **[4]** & **[6]**)	[2]	enabled	
Panic 3 (keys **[7]** & **[9]**)	[3]	enabled	
Panic 1 silent (PS1)	[4]	audible	
Panic 2 silent	[5]	audible	
Panic 3 silent	[6]	fire	
Key **[10]** regular arm / (A + B)	[7]	enabled	
Key **[11]** stay or system A arm	[8]	enabled	
6 digit access codes	[9]	4 digit	
Tamper Recognition	[10] / [11]		
Beep on exit delay	[12]	enabled	
Report zone restore on bell cut-off	[BYP]	on zone closure	
Zones with EOL (1KΩ)	[MEM]	no EOL	
Always report disarm	[TRBL]	only after alarm	

TAMPER / WIRE FAULT DEFINITIONS

Address 208, Key [10] [11]

SYSTEM ARMED	KEY [10]	KEY [11]	SYSTEM DISARMED*
Alarm as per individual zone definitions	OFF	OFF	Tamper supervision 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. Trouble and alarm codes reported
	ON	ON	Audible alarm. Trouble and alarm 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.

210:

	KEY		
Exclude power failure from trouble display	[2ND]	enabled	
N/A	[1]	N/A	
Auto arm = regular arm / (A + B)	[2]	stay arm / System A	
N/A	[3]	N/A	
N/A	[4]	N/A	
N/A	[5]	N/A	
No tamper bypass	[6]	tamper follows zone bypass definition	
N/A	[7]	N/A	
N/A	[8]	N/A	
Audible trouble warning	[9]	enabled	
20 sec. delay before alarm transmission	[10]	enabled	
Keypad 1 zone supervision (zone 5)	[11]	enabled	
Keypad 2 zone supervision (zone 6)	[12]	enabled	

PS1 software version **1.1**
Keypad software versions prior to **4.0** } Keypad supervision must be **OFF**

PS1 software versions **2.0** onward
Keypad software versions **4.0** onward } Keypad supervision must be **ON**

(See Wiring Diagram)

ZONE DEFINITION: *(reset = " ")*												
KEY SELECT:	**[1]**	**[2]**	**[3]**	**[4]**	**[5]**	**[6]**		**[1]**	**[2]**	**[3]**	**[4]**	**[5]**	**[6]**
212	1	2	3	4	5	6	**216**	1	2	3	4	5	6
Intellizone = ON	☐	☐	☐	☐	☐	☐	**Silent** = ON	☐	☐	☐	☐	☐	☐
220	1	2	3	4	5	6	**224**	1	2	3	4	5	6
24 Hr. / Fire = ON	☐	☐	☐	☐	☐	☐	**Instant** = ON	☐	☐	☐	☐	☐	☐
228	1	2	3	4	5	6	**232**	1	2	3	4	5	6
Follow = ON	☐	☐	☐	☐	☐	☐	**Delay 2** = ON	☐	☐	☐	☐	☐	☐
236	1	2	3	4	5	6							
Bypass enabled = ON	☐	☐	☐	☐	☐	☐							
240	1	2	3	4	5	6	**242**	1	2	3	4	5	6
Stay / system A	☐	☐	☐	☐	☐	☐	**System B**	☐	☐	☐	☐	☐	☐

When zone 3 is defined "24 Hour" it becomes a fire zone

Zones that are not selected at addresses **220** to **232** become "Delay 1" zones.

DECIMAL PROGRAMMING

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 *(factory default **60** seconds)*

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

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

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

251: ___/___/___ (x 15 mSec.) Zone speed *(factory default **600** mSec.)*

252: ___/___/___ (minutes) Power failure report delay *(factory default **30** minutes) (000=disabled)*

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

254: ___/___/___ PGM timer setting: 001 to 127 for seconds and 129 to 255 for minutes *(factory 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) *(factory default **unlocked**)*

DECIMAL VALUE DISPLAY

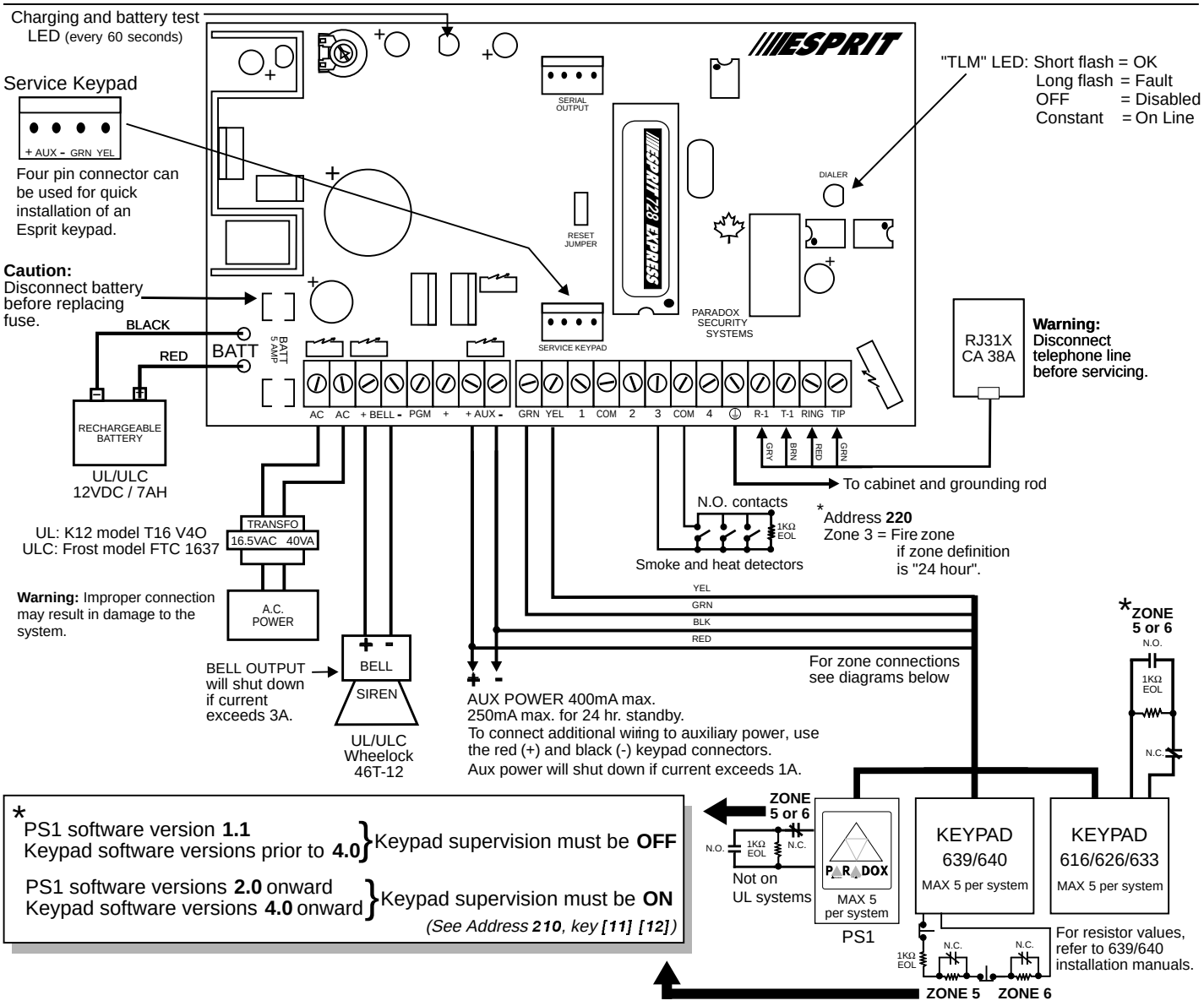
If key is lit = 8 = 4 = 2 = 1

Total value (**57**)
(**8 + 1 + 32 + 16 = 57**)

If key is lit = 128 = 64 = 32 = 16

No light = **0**

ESPRIT 728 EXPRESS WIRING DIAGRAM



* PS1 software version **1.1**
Keypad software versions prior to **4.0** } Keypad supervision must be **OFF**

PS1 software versions **2.0** onward
Keypad software versions **4.0** onward } Keypad supervision must be **ON**

*(See Address **210**, key **[11] [12]**)*

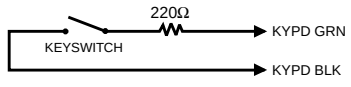
FIRE RESET

To program PGM1 to conduct 4 second smoke detector reset when **[CLEAR]** and **[ENTER]** are pressed simultaneously:

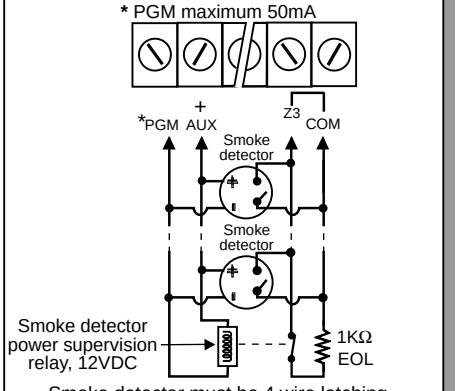
Address **195** = **[BYP]** (first digit)
Address **196** = **[5] [10]**
Address **198** = **[2ND] [6]**
Address **254** = **[10] [10] [4]**

KEYSWITCH CONNECTION

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

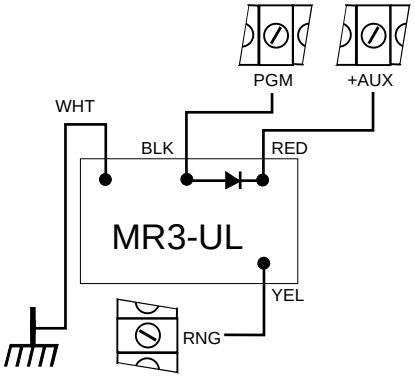


FIRE ALARM ZONE CONNECTIONS



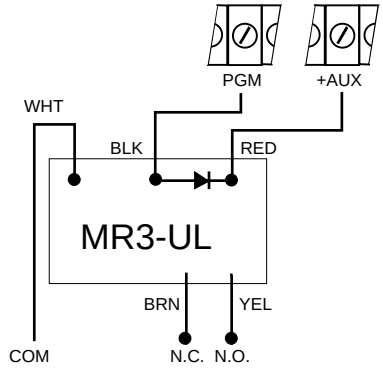
Smoke detector must be 4 wire latching - UL Falcon model 5454, ULC BRK 2412.
Power supervision relay model MR3-UL.

GROUND START CIRCUIT



Not permitted on UL listed systems

PGM OUTPUT RELAY



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KEY ACCESS PROGRAMMING

Programs features quickly, without entering addresses or section numbers.

To activate "key access programming", press **[ENTER],** followed by installer, master or user code 1. (Code required depends on the feature you wish to access - see below.) Then press the key corresponding to the desired feature. Press **[ENTER]** or **[CLEAR]** to exit.

key

[9] **"Auto arming" time program** *(accessible to master and user 1 only)*
Key **[9]** flashes. Enter two digits (00 to 23) for hours + 2 digits (00 to 59) for minutes.

[MEM] **"Panel time" and clear "trouble 8"** *(all 3 codes)*
Key **[MEM]** flashes. Enter two digits (00 to 23) for hours + 2 digits (00 to 59) for minutes.

[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 Esploadvia telephone** *(all 3 codes)*
Panel identifier and PC password (addresses **001**-**004**) and computer telephone number (addresses **060**-**067**) must be programmed.

[AWAY] **Answer Esploadd** *(all 3 codes)*
This feature is available when using the ADP-1 adapter. In Esploadd, "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 Esploadd)*
Until next reportable event *(installer code - all communications)*

[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], [9] **"Auto arming" time program** *(accessible to installer code only)*
*(*Same as key **[9]** above)

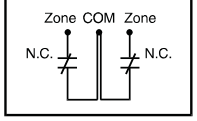
When communicating with Esploadd, it is impossible to enter programming mode.

CONNECTION DIAGRAMS

The system hardware will recognize the following zone conditions:

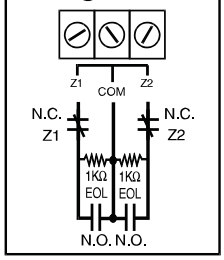
ZONE connection without EOL resistor (N.C. contacts)
address **208,** key **[MEM] =** "on"
key **[10] =** "off" (reset)
key **[11] =** "off" (reset)
N.C. contacts see Figure 1
Keypad zones always use (1K OHM) EOL

Figure 1



ZONE connection with EOL resistor (N.C. and N.O. contacts)
address **208,** key **[MEM] =** "off" (reset)
key **[10] =** "off" (reset)
key **[11] =** "off" (reset)
N.C. and/or N.O. contacts, see Figure 2

Figure 2



ZONE connection with EOL resistor and tamper recognition (N.C. contacts)
address **208,** key **[MEM] =** "off"
key **[10] =** See "Tamper/wire Fault Definitions
key **[11] =** and Options"
Tamper fault transmits separate code, see Figure 3

Figure 3