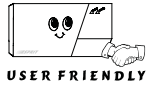


# ESPRIT 728 PROGRAMMING GUIDE



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)

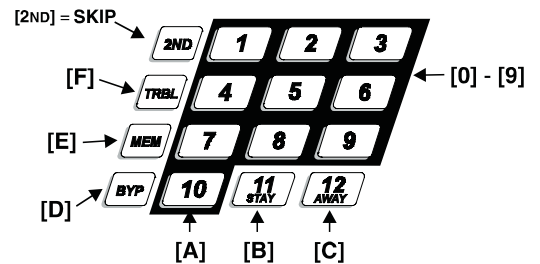
Programming values are programmed into memory locations from address 000 to 007.

- 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]

### 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	



### 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: \_\_/\_\_

### HEXA DISPLAY

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

 Value of 2<sup>ND</sup> digit = 10 (8 + 2 = 10)  
 Value of 1<sup>ST</sup> digit = 3 (2 + 1 = 3)  
 VALUE = "30"  
 No display = SKIP (empty)  
 No light = 0  
 10 = [0] = [A]

## **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
<b>07</b>	___/___	User code 1	<b>088</b>
	___/___	User code 2	<b>089</b>
	___/___	User code 3	<b>090</b>
	___/___	User code 4	<b>091</b>
<b>08</b>	___/___	User code 5	<b>092</b>
	___/___	User code 6	<b>093</b>
	___/___	User code 7	<b>094</b>
	___/___	User code 8	<b>095</b>
<b>09</b>	___/___	User code 9	<b>096</b>
	___/___	User code 10	<b>097</b>
	___/___	User code 11	<b>098</b>
	___/___	User code 12	<b>099</b>
<b>10</b>	___/___	User code 13	<b>100</b>
	___/___	User code 14	<b>101</b>
	___/___	User code 15	<b>102</b>
	___/___	User code 16	<b>103</b>

**DISARMING (opening) CODES:**

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

**ALARM CODES ZONE 1 TO 12:**

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

**ALARM CODES ZONE 13 TO 24:**

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

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

ZONE 13 TO 24 RESTORE CODES:

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

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

TROUBLE RESTORE CODES:

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

**SPECIAL CODES - FORMATS - PGM:**

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

**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)

**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 <sup>nd</sup> 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

**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]															
<b>200:</b>	SYSTEM "A" / STAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>202:</b>	SYSTEM "B" / AWAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>204:</b>	Codes with bypass access	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**206:**

- See "TLM" Table.....
- PS1/Keyswitch = regular arm / (A + B)....
- PS1/Keyswitch 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
<input type="checkbox"/>	[2ND]	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	[1]	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	[2]	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	[3]	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	[4]	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	[5]	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	[6]	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	[7]	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	[8]	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	[9]	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	[10]	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	[11]	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	[12]	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	[BYP]	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	[MEM]	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	[TRBL]	<input type="checkbox"/>	<input type="checkbox"/>

**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)

**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
<input type="checkbox"/>	[2ND]	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	[1]	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	[2]	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	[3]	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	[4]	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	[5]	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	[6]	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	[7]	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	[8]	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	[9]	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	[10]	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	[11]	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	[12]	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	[BYP]	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	[MEM]	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	[TRBL]	<input type="checkbox"/>	<input type="checkbox"/>

**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, fail to comm.
ON	ON	—	—	Double reporting	— 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)

**TAMPER / WIRE FAULT DEFINITION TABLE**

Address 208, Key [10] [11]

		KEY		
		[10]	[11]	SYSTEM DISARMED *
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]
<b>212</b>	1	2	3	4	5	6	7	8	9	10	11	12	<b>214</b>	Zones 13 to 24 are not available.											
Fast = ON	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>216</b>	1	2	3	4	5	6	7	8	9	10	11	12	<b>218</b>	Zones 13 to 24 are not available.											
Silent = ON	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>220</b>	1	2	3	4	5	6	7	8	9	10	11	12	<b>222</b>	Zones 13 to 24 are not available.											
24 Hr./ Fire = ON	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
* When zone 3 is defined "24 Hour" it becomes a fire zone																									
<b>224</b>	1	2	3	4	5	6	7	8	9	10	11	12	<b>226</b>	Zones 13 to 24 are not available.											
Instant = ON	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>228</b>	1	2	3	4	5	6	7	8	9	10	11	12	<b>230</b>	Zones 13 to 24 are not available.											
Follow = ON	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>232</b>	1	2	3	4	5	6	7	8	9	10	11	12	<b>234</b>	Zones 13 to 24 are not available.											
Delay 2 = ON	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>236</b>	1	2	3	4	5	6	7	8	9	10	11	12	<b>238</b>	Zones 13 to 24 are not available.											
Bypass enabled = ON	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>240</b>	SYSTEM A						SYSTEM B						<b>242**</b>	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						
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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)  

     ( 8 + 1 + 32 + 16 = 57)

  
 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

1000Ω (1KΩ)



**GREEN**  
Normal Zone

500Ω\* (.5KΩ)

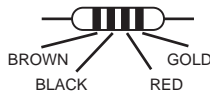


**BROWN**  
Double Zone

\*If unavailable, a 510Ω is acceptable

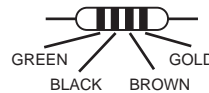
## RESISTOR GUIDE (ALTERNATE)

1000Ω (1KΩ)



BROWN  
BLACK RED  
**Normal Zone**

500Ω\* (.5KΩ)



GREEN  
BLACK BROWN  
**Double Zone**

\*If unavailable, a 510Ω 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)**

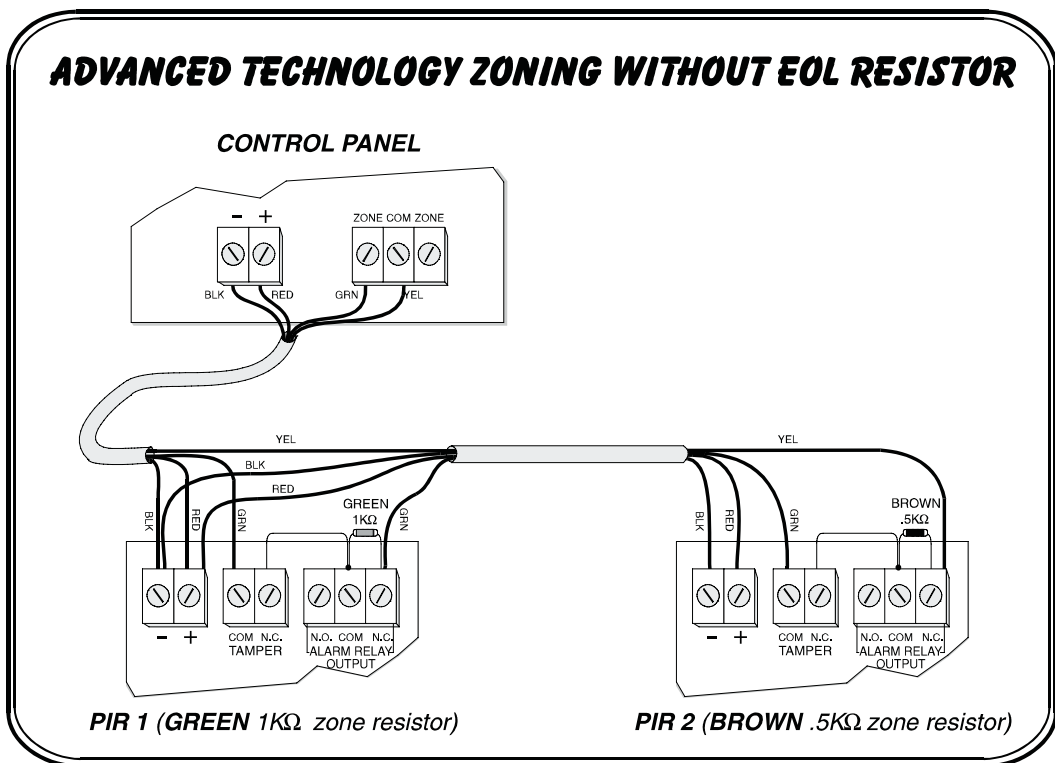
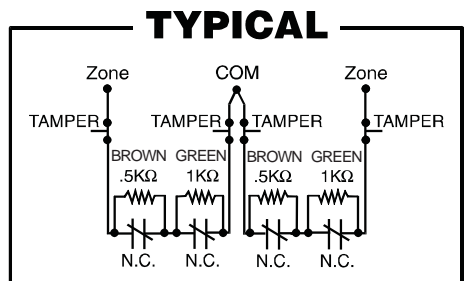
address 208, key [MEM] = "on"  
 key [10] = See "Tamper/wire Fault Definitions and Options"  
 key [11] =

address 210, key [8] = "on"

**Tamper fault transmits separate code**

Each zone transmits separate alarm code, see "TYPICAL"

4 Alarm zones  
 2 Tamper signals



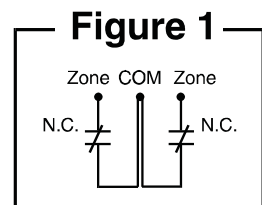
**SINGLE ZONE connection without EOL resistor (N.C. contacts)**

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

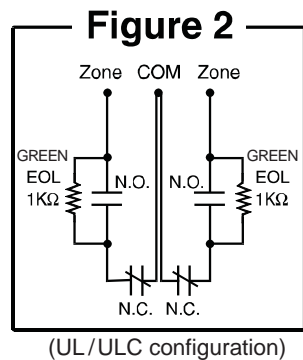


**SINGLE ZONE connection with 1 EOL resistor (N.C. and N.O. contacts)**

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)**

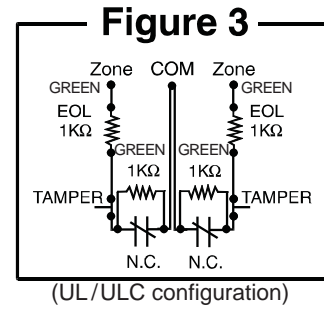
address 208, key [MEM] = "off"

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 (1Kohm) tamper (open) recognition, wire fault (short circuit) recognition (N.C. contacts)**

address 208, key [MEM] = "off"

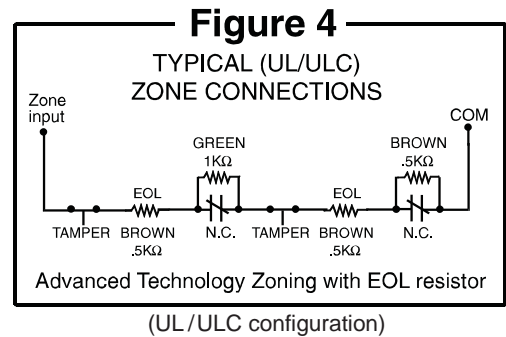
key [10] = See "Tamper/wire Fault Definitions and Options"

key [11] =

address 210, key [8] = "on"

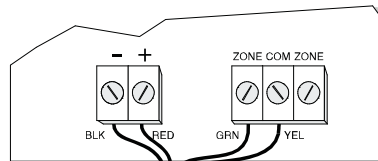
Each zone transmits a separate alarm code.

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



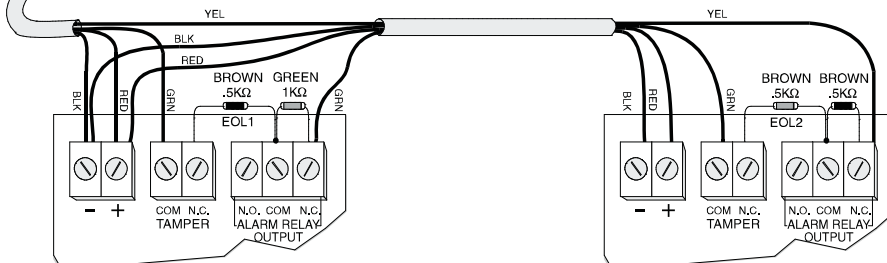
**ADVANCED TECHNOLOGY ZONING WITH EOL RESISTOR**

**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)**.

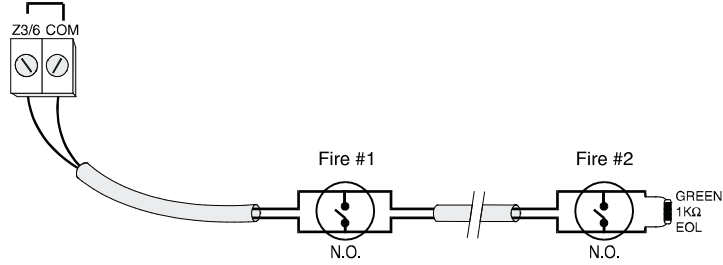


**PIR 1 (GREEN 1KΩ zone resistor)**

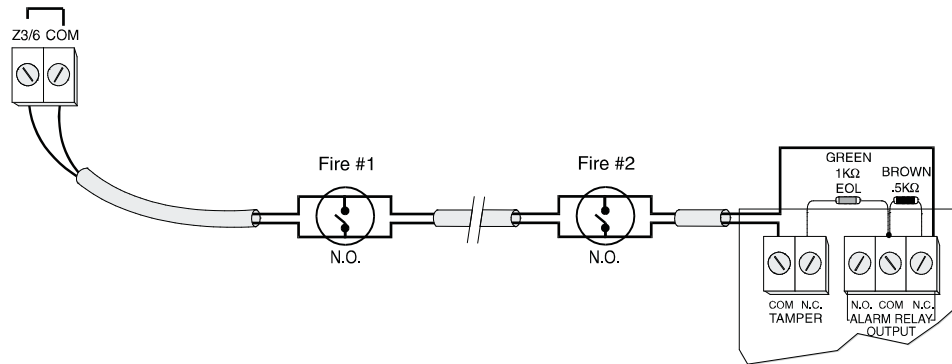
**PIR 2 (BROWN .5KΩ zone resistor)**

### DOUBLE FIRE LOOP

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

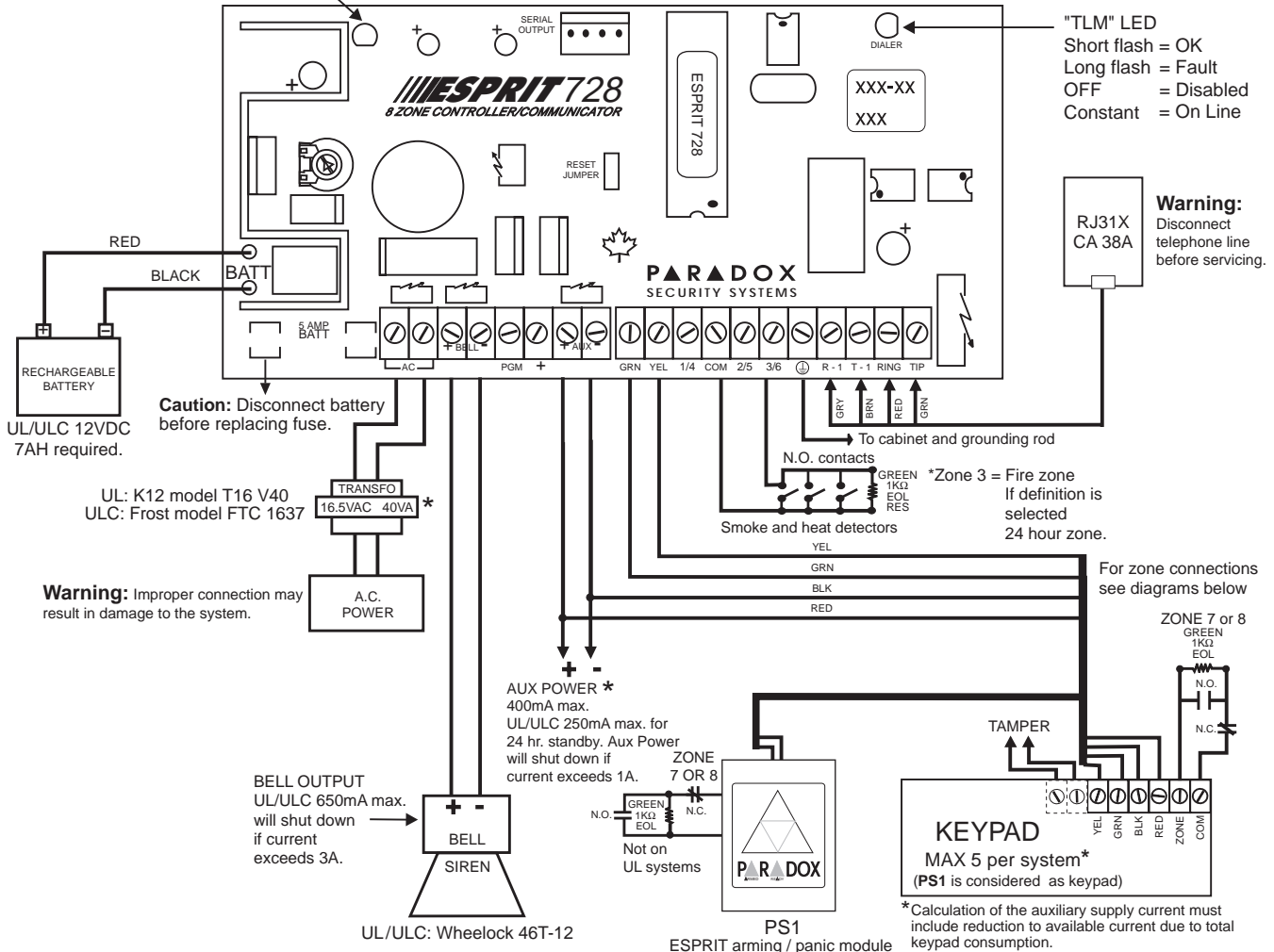


With zone 6 (address 210, key [1] = OFF)



# ESPRIT 728 WIRING DIAGRAM

Charging and battery test LED  
(every 60 seconds)



"TLM" LED  
Short flash = OK  
Long flash = Fault  
OFF = Disabled  
Constant = On Line

**Warning:** Improper connection may result in damage to the system.

\*Calculation of the auxiliary supply current must include reduction to available current due to total keypad consumption.

