

SYSTEM PROGRAMMING GUIDE

# Software Versions 3.1 (728+, 738EX+ and 738+), 3.2 (728EX4+, 728DZ8+ and 748+) and 3.3 (728EX+)

#### INSTALLER CODE

Full access to programming, except user access codes (PINs). No access to arming/disarming. Use only numeric keys from [1] to [10] (key [10] = 0). For default installer codes, refer to Table 1 below.

| 728EX+ = 727272      | 728EX4+ = <b>727272</b> | 738EX+ = <b>737373</b> | 748+ <b>= 484848</b> |
|----------------------|-------------------------|------------------------|----------------------|
| 728+ <b>= 282828</b> | 728DZ8+ <b>= 282828</b> | 738+ = <b>383838</b>   |                      |

#### KEYPAD TROUBLE DISPLAY

Press the [TBL]/[TRBL] key to view the trouble. Refer to Table 2 below.

| [1] - No Battery or Low Voltage | [7] - Communicator Report Failure        |
|---------------------------------|--|
| [2] - Power Failure             | [8] - Timer Loss*                        |
| [4] - Bell Output Disconnected  | [9] - Tamper or Zone Wiring Failure      |
| [5] - Maximum Bell Current      | [10] - Telephone Line Monitoring Failure |
| [6] - Maximum Auxiliary Current | [11] - Fire Loop Trouble                 |
| [6] - Maximum Auxiliary Current | [11] - Fire Loop Trouble                 |

Table 2: Trouble Display

\* To clear the Timer Loss trouble, refer to Key Access Programming on page 12 (the [MEM] key). Press the [CLEAR] button to clear troubles.

## **HEXA PROGRAMMING**

Addresses **000** to **043** and **300** to **527** are programmed using the Hexa Programming method. In this mode, you can enter any hexadecimal digit from 0 - F where keys **[1]** to **[9]** represent digits 1 to 9 respectively; the other keys represent hexadecimal digits A to F as shown in Figure 1 on page 1. To program using the Hexa Programming method:

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





#### STREAMLINED SECTION PROGRAMMING

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



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

To program using the Hexa Streamlined Section method:

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

#### **ZONE RECOGNITION**

| Device<br>connected to<br>which input? | 728+<br>728EX+<br>728EX4+**<br>728DZ8+** | 728+<br>728DZ8+** | 738EX+ | 738+   | 738+         | 748+    | 748+          |
|--|--|-------------------|--------|--------|--------------|---------|---------------|
|  | No ATZ                                   | With ATZ          | No ATZ | No ATZ | With ATZ     | No ATZ  | With ATZ      |
| Control Panel                          |  |                   |        |        |              |         |               |
| Input 1 =                              | Zone 1                                   | Zones 1 & 2       | Zone 1 | Zone 1 | Zones 1 & 7  | Zone 1  | Zones 1 & 13* |
| Input 2 =                              | Zone 2                                   | Zones 3 & 4       | Zone 2 | Zone 2 | Zones 2 & 8  | Zone 2  | Zones 2 & 14* |
| Input 3 =                              | Zone 3                                   | Zones 5 & 6       | Zone 3 | Zone 3 | Zones 3 & 9  | Zone 3  | Zones 3 & 15  |
| Input 4 =                              | Zone 4                                   | Zones 7 & 8       | Zone 4 | Zone 4 | Zones 4 & 10 | Zone 4  | Zones 4 & 16  |
| Input 5 =                              | N/A                                      | N/A               | Zone 5 | Zone 5 | Zones 5 & 11 | Zone 5  | Zones 5 & 17  |
| Input 6 =                              | N/A                                      | N/A               | Zone 6 | Zone 6 | Zones 6 & 12 | Zone 6  | Zones 6 & 18  |
| Input 7 =                              | N/A                                      | N/A               | Zone 7 | N/A    | N/A          | Zone 7  | Zones 7 & 19  |
| Input 8 =                              | N/A                                      | N/A               | N/A    | N/A    | N/A          | Zone 8  | Zones 8 & 20  |
| Input 9 =                              | N/A                                      | N/A               | N/A    | N/A    | N/A          | Zone 9  | Zones 9 & 21  |
| Input 10 =                             | N/A                                      | N/A               | N/A    | N/A    | N/A          | Zone 10 | Zones 10 & 22 |
| Input 11 =                             | N/A                                      | N/A               | N/A    | N/A    | N/A          | Zone 11 | Zones 11 & 23 |
| Input 12 =                             | N/A                                      | N/A               | N/A    | N/A    | N/A          | Zone 12 | Zones 12 & 24 |
|  |  |                   |        |        |              |         |               |
| Keypad                                 |  |                   |        |        |              |         |               |
| Zone 1 =                               | Zone 5**                                 | Zone 9**          | Zone 9 | Zone 7 | Zone 13      | Zone 13 | Zone 13*      |
| Zone 2 =                               | Zone 6**                                 | Zone 10**         | Zone 8 | Zone 8 | Zone 14      | Zone 14 | Zone 14*      |

\* Control panel does not distinguish between zones 13 and 14 and keypad zones 1 (zone 13) and 2 (zone 14). \*\* The 728EX4+ and 728DZ8+ control panels do not support any keypad zones.

WARNING: This equipment must be installed and maintained by qualified service personnel only.

#### **INSTALLER / PANEL ANSWER OPTIONS**



## **TELEPHONE AND ACCOUNT NUMBERS**

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

| [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 008 to 015) |  |                    |   |   |
|--|--|--------------------|---|---|
| Streamline Section                                       |  | Streamline Section |   | Press the [TRBL] key to                                       |
| 02   |  | 03                 | /_/_/_/_/_/_/<br>9 10 11 12 13 14 15 16 | end phone number if<br>less than 16 digits are<br>programmed. |

| Central Station Telephone Number 1 (View at addresses 016 to 023) |  |                    |   |   |  |
|---|--|--------------------|---|---|--|
| Streamline Section  |  | Streamline Section |   | Press the [TRBL] key to                                       |  |
| 04  |  | 05                 | /_/_/_/_/_/_/<br>9 10 11 12 13 14 15 16 | end phone number if<br>less than 16 digits are<br>programmed. |  |

| Central Station Telephone Number 2 (View at addresses 024 to 031) |                                  |                    |                                  |   |  |
|---|----------------------------------|--------------------|----------------------------------|---|--|
| Streamline Section  |                                  | Streamline Section |                                  | Press the [TRBL] key to                                       |  |
| 06  | /_/_/_/_/_/_/<br>1 2 3 4 5 6 7 8 | 07                 | //////<br>9 10 11 12 13 14 15 16 | end phone number if<br>less than 16 digits are<br>programmed. |  |

| Account "A" and "E | 3" (View at addresse                         | es 032 to 035)   |                         |
|--------------------|--|------------------|-------------------------|
| Streamline Section | n  |                  | For 3 digit account     |
| 08                 | <u>    /    /    /                      </u> | /_/_/<br>5 6 7 8 | ([2ND]) as first digit. |
|                    | Α  | В                |                         |



## **REPORTING CODES**

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

A

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

## ARMING (CLOSING) REPORT CODES:

| Streamline<br>Section | Data        | Description  | Address                  |
|-----------------------|-------------|--|--------------------------|
| 11-                   | /<br>/<br>/ | Auto / Espload<br>Master<br>User Code 1<br>User Code 2       | 300<br>301<br>302<br>303 |
| 12 –                  | /<br>/<br>/ | User Code 3<br>User Code 4<br>User Code 5<br>User Code 6     | 304<br>305<br>306<br>307 |
| 13 –                  | /<br>/<br>/ | User Code 7<br>User Code 8<br>User Code 9<br>User Code 10    | 308<br>309<br>310<br>311 |
| 14 -                  | /<br>/<br>/ | User Code 11<br>User Code 12<br>User Code 13<br>User Code 14 | 312<br>313<br>314<br>315 |
| 15 –                  | /<br>/<br>/ | User Code 15<br>User Code 16<br>User Code 17<br>User Code 18 | 316<br>317<br>318<br>319 |
| 16 –                  | /<br>/<br>/ | User Code 19<br>User Code 20<br>User Code 21<br>User Code 22 | 320<br>321<br>322<br>323 |

| Streamline  | Data                    | Description    | Address |  |
|-------------|-------------------------|----------------|---------|--|
| _           | /                       | User Code 23   | 324     |  |
| 47          | /                       | User Code 24   | 325     |  |
| 17-         | /                       | User Code 25   | 326     |  |
|             | /                       | User Code 26   | 327     |  |
| _           | /                       | User Code 27   | 328     |  |
| 40          | /                       | User Code 28   | 329     |  |
| 18 –        | /                       | User Code 29   | 330     |  |
|             | /                       | User Code 30   | 331     |  |
| _           | /                       | User Code 31   | 332     |  |
| 40          | /                       | User Code 32   | 333     |  |
| 19 –        | /                       | User Code 33   | 334     |  |
|             | /                       | User Code 34   | 335     |  |
| _           | /                       | User Code 35   | 336     |  |
| 20          | /                       | User Code 36   | 337     |  |
| 20 –        | /                       | User Code 37   | 338     |  |
|             | /                       | User Code 38   | 339     |  |
|             | /                       | User Code 39   | 340     |  |
| 24          | /                       | User Code 40   | 341     |  |
| 21-         | /                       | User Code 41   | 342     |  |
|             | /                       | User Code 42   | 343     |  |
| _           | /                       | User Code 43   | 344     |  |
| 22          | /                       | User Code 44   | 345     |  |
| <b>ZZ</b> – | /                       | User Code 45   | 346     |  |
|             | /                       | User Code 46   | 347     |  |
| _           | /                       | User Code 47   | 348     |  |
| <b></b>     | /                       | User Code 48 / | 349     |  |
| 23 –<br>    |                         | (Duress)       |         |  |
|             | Continues on next page. |                |         |  |

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

| Streamline<br>Section | Data                | Description    | Address |  |  |
|-----------------------|---------------------|----------------|---------|--|--|
| ·                     | - See previous page |                |         |  |  |
| <b>23</b> _           | /                   | Auto / Espload | 350     |  |  |
|                       | /                   | Master         | 351     |  |  |
| _                     | /                   | User Code 1    | 352     |  |  |
| <b>0</b> 4            | /                   | User Code 2    | 353     |  |  |
| 24 –                  | /                   | User Code 3    | 354     |  |  |
|                       | /                   | User Code 4    | 355     |  |  |
| _                     | /                   | User Code 5    | 356     |  |  |
| 05                    | /                   | User Code 6    | 357     |  |  |
| 25 –                  | /                   | User Code 7    | 358     |  |  |
|                       | /                   | User Code 8    | 359     |  |  |
|                       | /                   | User Code 9    | 360     |  |  |
| 26                    | /                   | User Code 10   | 361     |  |  |
| 20 –                  | /                   | User Code 11   | 362     |  |  |
|                       | /                   | User Code 12   | 363     |  |  |
|                       | /                   | User Code 13   | 364     |  |  |
| 27                    | /                   | User Code 14   | 365     |  |  |
| <b>Z</b> I -          | /                   | User Code 15   | 366     |  |  |
|                       | /                   | User Code 16   | 367     |  |  |
| _                     | /                   | User Code 17   | 368     |  |  |
| 20                    | /                   | User Code 18   | 369     |  |  |
| 20 -                  | /                   | User Code 19   | 370     |  |  |
|                       | /                   | User Code 20   | 371     |  |  |
|                       | /                   | User Code 21   | 372     |  |  |
| 20                    | /                   | User Code 22   | 373     |  |  |
| 29 <del> </del>       | /                   | User Code 23   | 374     |  |  |
|                       | /                   | User Code 24   | 375     |  |  |

| <u> </u>          | User Code 25   | 376 |
|-------------------|----------------|-----|
|                   | User Code 26   | 377 |
| 30                | User Code 27   | 378 |
|                   | User Code 28   | 379 |
| <u> </u>          | 0301 0000 20   | 575 |
| <u> </u>          | User Code 29   | 380 |
|                   | User Code 30   | 381 |
| 31 –              | User Code 31   | 382 |
|                   | User Code 32   | 383 |
| <u> </u>          | 000.00000      |     |
| <u> </u>          | User Code 33   | 384 |
| ~~/               | User Code 34   | 385 |
| <b>3Z</b> – _ /   | User Code 35   | 386 |
|                   | User Code 36   | 387 |
|                   |                |     |
| <u> </u>          | User Code 37   | 388 |
| · ¬¬   −′−        | User Code 38   | 389 |
| <b>33</b> /       | User Code 39   | 390 |
| /                 | User Code 40   | 391 |
| 1                 | User Code 41   | 302 |
| <u> </u>          | User Code 42   | 202 |
| 34                | User Code 42   | 393 |
|                   | User Code 43   | 394 |
| L/                | User Code 44   | 395 |
| <u> </u>          | User Code 45   | 396 |
|                   | User Code 46   | 397 |
| <b>35</b> – – , – | User Code 47   | 398 |
|                   | User Code 48 / |     |
|                   | (Duress)       | 399 |
|                   | ()             |     |

# ALARM REPORT CODES FOR ZONES 1 TO 24 (see warning below):

| Streamline<br>Section | Data | Description            | Address | Streamline<br>Section | Data | Description | Address |
|-----------------------|------|------------------------|---------|-----------------------|------|-------------|---------|
| _                     | /    | Zone 1                 | 400     |                       | /    | Zone 13     | 412     |
| 20                    | /    | Zone 2                 | 401     | 20                    | /    | Zone 14     | 413     |
| 30 –                  | /    | Zone 3 (fire add. 100) | 402     | 39 –                  | /    | Zone 15     | 414     |
|                       | /    | Zone 4                 | 403     |                       | /    | Zone 16     | 415     |
| _                     | /    | Zone 5                 | 404     | _                     | /    | Zone 17     | 416     |
| 07                    | /    | Zone 6                 | 405     | 40                    | /    | Zone 18     | 417     |
| 31 –                  | /    | Zone 7                 | 406     | 40 –                  | /    | Zone 19     | 418     |
|                       | /    | Zone 8                 | 407     |                       | /    | Zone 20     | 419     |
| _                     | /    | Zone 9                 | 408     |                       | /    | Zone 21     | 420     |
| 20                    | /    | Zone 10                | 409     | 44                    | /    | Zone 22     | 421     |
| 30 <u> </u>           | /    | Zone 11                | 410     | 41-                   | /    | Zone 23     | 422     |
|                       | /    | Zone 12                | 411     |                       | /    | Zone 24     | 423     |

For zone recognition, refer to "Zone Recognition" on page 2.

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## ALARM RESTORE REPORT CODES FOR ZONES 1 TO 24 (see warning below):

| Streamline<br>Section | Data | Description            | Address | Streamline<br>Section | Data | Description | Address |
|-----------------------|------|------------------------|---------|-----------------------|------|-------------|---------|
| _                     | /    | Zone 1                 | 424     |                       | /    | Zone 13     | 436     |
| 40                    | /    | Zone 2                 | 425     | 45                    | /    | Zone 14     | 437     |
| 42 –                  | /    | Zone 3 (fire add. 100) | 426     | 45 –                  | /    | Zone 15     | 438     |
|                       | /    | Zone 4                 | 427     |                       | /    | Zone 16     | 439     |
|                       | /    | Zone 5                 | 428     | _                     | /    | Zone 17     | 440     |
| 12                    | /    | Zone 6                 | 429     | 46                    | /    | Zone 18     | 441     |
| 43 –                  | /    | Zone 7                 | 430     | 40 –                  | /    | Zone 19     | 442     |
|                       | /    | Zone 8                 | 431     |                       | /    | Zone 20     | 443     |
|                       | /    | Zone 9                 | 432     |                       | /    | Zone 21     | 444     |
|                       | /    | Zone 10                | 433     | 47                    | /    | Zone 22     | 445     |
| 44 –                  | /    | Zone 11                | 434     | 41 –                  | /    | Zone 23     | 446     |
|                       | /    | Zone 12                | 435     |                       | /    | Zone 24     | 447     |

For zone recognition, refer to "Zone Recognition" on page 2.

## ZONES 1 TO 24 SHUTDOWN REPORT CODES (see warning below):

| Streamline<br>Section | Data | Description            | Address | Streamline<br>Section | Data | Description | Address |
|-----------------------|------|------------------------|---------|-----------------------|------|-------------|---------|
| _                     | /    | Zone 1                 | 448     |                       | /    | Zone 13     | 460     |
| 40                    | /    | Zone 2                 | 449     | <b>F</b> 4            | /    | Zone 14     | 461     |
| 48 –                  | /    | Zone 3 (fire add. 100) | 450     | 51 –                  | /    | Zone 15     | 462     |
|                       | /    | Zone 4                 | 451     |                       | /    | Zone 16     | 463     |
| _                     | /    | Zone 5                 | 452     |                       | /    | Zone 17     | 464     |
| 40                    | /    | Zone 6                 | 453     | 50                    | /    | Zone 18     | 465     |
| 49 –                  | /    | Zone 7                 | 454     | 52 —                  | /    | Zone 19     | 466     |
|                       | /    | Zone 8                 | 455     |                       | /    | Zone 20     | 467     |
| _                     | /    | Zone 9                 | 456     |                       | /    | Zone 21     | 468     |
| <b>FO</b>             | /    | Zone 10                | 457     | 50                    | /    | Zone 22     | 469     |
| 50 –                  | /    | Zone 11                | 458     | 53 —                  | /    | Zone 23     | 470     |
|                       | /    | Zone 12                | 459     |                       | /    | Zone 24     | 471     |

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For zone recognition, refer to "Zone Recognition" on page 2.

## TAMPERS 1 TO 12 REPORT CODES (see warning below):

| Streamline<br>Section | Data | Description | Address | Streamline<br>Section | Data          | Description          | Address |
|-----------------------|------|-------------|---------|-----------------------|---------------|----------------------|---------|
| _                     | /    | Tamper 1    | 472     | _                     | /             | Tamper 9             | 480     |
|                       | /    | Tamper 2    | 473     | 50                    | /             | Tamper 10            | 481     |
| 54 –                  | /    | Tamper 3    | 474     | 56 —                  | /             | Tamper 11            | 482     |
|                       | /    | Tamper 4    | 475     |                       | /             | Tamper 12            | 483     |
|                       |      |             |         | Addresses 484 -       | - 495 are res | erved for future use |         |
| _                     | /    | Tamper 5    | 476     |                       |               |                      |         |
| <b>6 6</b>            | /    | Tamper 6    | 477     |                       |               |                      |         |
| <b>၁</b> ၁ –          | /    | Tamper 7    | 478     |                       |               |                      |         |
|                       | /    | Tamper 8    | 479     |                       |               |                      |         |



For zone recognition, refer to "Zone Recognition" on page 2.

| TROUBLE REP           | PORT CODE | ES:                                    |         |                       |             |                       |         |
|-----------------------|-----------|--|---------|-----------------------|-------------|-----------------------|---------|
| Streamline<br>Section | Data      | Description                            | Address | Streamline<br>Section | Data        | Description           | Address |
| _                     | /         | Max. aux. current                      | 496     |                       | /           | Fire loop trouble     | 500     |
|                       | /         | Bell disconnect /<br>max. bell current | 497     |                       | /           | Timer loss            | 501     |
| 60 –                  | /         | Battery disconnect /<br>low voltage    | 498     | 61 –                  | [2ND]/[2ND] | Future Use            | 502     |
|                       | /         | Power failure                          | 499     |                       | [2ND]/[2ND] | Future Use            | 503     |
| TROUBLE RES           | STORE REP | ORT CODES:                             |         |                       |             |                       |         |
| Streamline<br>Section | Data      | Description                            | Address | Streamline<br>Section | Data        | Description           | Address |
|                       | /         | Max. aux. current                      | 504     |                       | /           | Fire loop trouble     | 508     |
|                       | /         | Bell disconnect /<br>max. bell current | 505     |                       | /           | Timer<br>programmed   | 509     |
| 62 –                  | /         | Battery disconnect /<br>low voltage    | 506     | 63 –                  | /           | Tamper / wiring fault | 510     |
|                       | /         | Power failure                          | 507     |                       | /           | TLM restore           | 511     |
| SPECIAL REP           |           | 5:                                     |         |                       |             |                       |         |
| Streamline<br>Section | Data      | Description                            | Address | Streamline<br>Section | Data        | Description           | Address |
| _                     | /         | Test report                            | 512     |                       | /           | Duress                | 520     |
| 64                    | /         | Panic 1                                | 513     | 66                    | [2ND]/[2ND] | Future Use            | 521     |
| 04 –                  | /         | Panic 2                                | 514     | 00 -                  | [2ND]/[2ND] | Future Use            | 522     |
|                       | /         | Panic 3                                | 515     |                       | [2ND]/[2ND] | Future Use            | 523     |
| Streamline<br>Section | Data      | Description                            | Address |                       |             |                       |         |
| _                     | /         | Late to close                          | 516     | _                     | /           | Login (Espload)       | 524     |
| <u>0</u>              | /         | No movement                            | 517     | <b>67</b>             | /           | Program Change        | 525     |
| 65 –                  | /         | Partial Arming                         | 518     | b/ –                  | [2ND]/[2ND] | Future Use            | 526     |
|                       | /         | Recent Close                           | 519     |                       | [2ND]/[2ND] | Future Use            | 527     |
|                       |           |  |         |                       |             |                       |         |

#### DECIMAL PROGRAMMING

- 1) Press [ENTER] + [INSTALLER CODE] (default: see Table 1 on page 1)
- 2) The [ENTER] key will flash to indicate you are in programming mode
- 3) Enter 3-digit [ADD RESS] (044 061)
- 4) The keypad will now display the current 3-digit data currently saved at this address as described in Figure 2 on page 9.
- 5) Enter 3-digit [DATA] (000 255) value and do not press [ENTER], the software will automatically save the data
- 6) Return to step 2 or press [CLEAR] to exit programming mode

| Address | Data | Description  | Default    |
|---------|------|--|------------|
| 044     | //   | (hours) Auto arm time (between "000" and "023")  |            |
| 045     | //   | (minutes) Auto arm time (between "000" and "059")  |            |
| 046     | //   | (days) Auto test report every ? days (between "001" and "255") (000 = disabled)  |            |
| 047     | //   | (hours) Auto test report (between "000" and "023")   |            |
| 048     | //   | (minutes) Auto test report (between "000" and "059")   |            |
| 049     | //   | (seconds) Exit delay   | 60 seconds |
| 050     | //   | (seconds) Entry delay 1  | 45 seconds |
| 051     | //   | (seconds) Entry delay 2  | 45 seconds |
| 052     | //   | (minutes) Bell cut-off time  | 5 minutes  |
| 053     | //   | (x 15 mSec.) Zone speed  | 600 mSec.  |
| 054     | //   | (minutes) Power failure report delay (000 = disabled)  | 30 minutes |
| 055     | //   | (x 15 minutes) "No movement" report time (000 = disabled)  | Disabled   |
| 056     | //   | PGM timer setting (001 to 127 for seconds and 129 to 255 for minutes)<br>Add 128 to desired value in minutes (i.e. for 5 minutes: enter 5 + 128 = 133)   | 5 seconds  |
| 057     | //   | Intellizone delay (in seconds, minimum = 10 seconds)   | 48 seconds |
| 058     | //   | Installer code lock (147 = locked, 000 = unlocked).<br><b>Esprit 728EX+ only:</b> The BATT LED will flash and the dialer relay will open and close, thus making a clicking noise, for 4 seconds during power up when Installer Lock is enabled on the control panel. |            |
| 059     | //   | (seconds) Programmable delay before alarm transmission (005 to 063 seconds)<br>(000 = disabled)  |            |
| 060     | //   | (seconds) Recent closing delay (000 = disabled)  |            |
| 061     | //   | Future Use   |            |

#### Figure 2: Decimal Display For LED Keypads



## FEATURE SELECT PROGRAMMING

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

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

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

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

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

ble 3: Code Priority For System "A"/STA

|  |     | KEY                     |    |                         | Telephone Line Monitoring (TLM)   |
|--|-----|-------------------------|----|-------------------------|---|
| 086:                                       | OFF | 1                       | ON |                         | KEY   |
|  |     | [2ND]                   |    |                         | [2ND] [1]   |
| See I LIVI table at right                  |     | [1]                     |    |                         | OFF OFF - TLM disabled  |
| Keyswitch = regular arm                    |     | [2]                     |    |                         | OFF ON - I LM generates trouble only  |
| Keyswitch arming                           |     | [2]                     |    | Enabled                 | - ON ON - silent alarm becomes audible  |
| Call back                                  |     | [3]                     |    | Enabled                 | (address 086, key 191 has to be OFF)  |
| Auto arm on timo                           |     | [4]                     |    | Enabled                 |   |
|  |     | [5]                     |    |                         |   |
| Auto arm on no movement                    |     | [0]                     |    | Enabled                 | Reporting Options   |
|  |     | [/]                     |    |                         | KEY   |
|  |     | [8]                     |    | Enabled                 | [11] [12]   |
| Silent zone/panic generates a silent alarm |     | [9]                     |    | generates only a report | OFF ON - Regular reporting  |
| (1:2) Pulse Europe                         |     | [10]                    |    | (1:1.5) Pulse USA       | ON OFF - Split* reporting (Alarms & System)   |
| See "Reporting Options" table at right     |     | [11]                    |    |                         | ON ON - Double reporting  |
|  |     | [1 <i>2</i> ]           |    |                         | Report Dialing Sequence (tel. no.)  |
| N/A  |     | [BYP]                   |    | N/A                     | Regular: 1,2,1,2,1,2, fail to comm.   |
| Bell squawk on arm/disarm                  |     | [мем]                   |    | Enabled                 | System - 2,2,2,2,2,2,2,2, fail to comm  |
| Auto zone shutdown                         |     | [TRBL]                  |    | Enabled                 | Double: 1,1,1,1,1,1,1, fail to comm   |
|  |     | []                      |    |                         | 2,2,2,2,2,2,2,2, fail to comm   |
|  |     | K FY                    |    |                         | * On alarm, all reports are made to Tel. #1 until system is<br>disarmed. Once disarmed system reports are made to |
| 088:                                       | OFF | /                       | ON |                         | Tel. #2   |
| Automatic event buffer transmission        |     | [2ND]                   |    | Enabled                 |   |
| Panic 1 (keys [1] and [3])                 |     | [1]                     |    | Enabled                 |   |
| Panic 2 (keys [4] and [6])                 |     | [2]                     |    | Enabled                 |   |
| Panic 3 (keys [7] and [9])                 |     | [3]                     |    | Enabled                 | Tamper / Wire Fault Definitions   |
| Panic 1 silent                             |     | [4]                     |    | Audible                 | KEY<br>System Armod [10] [11] System Disarmod*  |
| Panic 2 silent                             |     | [7]                     |    | Audible                 | Alarm as per OFF OFF - Tamper supervision   |
| Panic 3 silent                             |     | [0]                     |    | Fire                    | individual zone disabled  |
| Kov [10] rogular arming                    |     | [0]                     |    | Enabled                 |   |
| Key [11] stay or system A arm              |     | [']                     |    | Enabled                 | Always generate code reported   |
|  |     | [0]<br>[0]              |    |                         | trouble and ON OFF - Silent alarm.  |
| o digit access codes                       |     | [9]                     |    |                         | silent as per codes reported  |
| Tamper Recognition                         |     | [10]                    |    |                         | individual zone ON ON - Audible alarm.  |
|  |     | [11]                    |    |                         | codes reported **   |
| Beep on exit delay                         |     | [1 <i>2</i> ]           |    | Enabled                 | * Exception: for 24 hour zones, the tamper definition   |
| Report zone restore on bell cut-off        |     | [BYP]                   |    | On zone closure         | will follow the audible/silent alarm definition of the 24   |
| Zones with EOL (1k $\Omega$ )              |     | [МЕМ]                   |    | No EOL                  | hour zone.<br>* Silent zones will generate a silent alarm   |
| Always report disarm                       |     | [TRBL]                  |    | Only after alarm        | Shart zones win generate a shert alarin.  |
|  |     |                         |    |                         |   |
|  |     | KEY                     |    |                         |   |
| 090:                                       | OFF | 1                       | ON |                         |   |
| Exclude power failure from trouble display |     | [2ND]                   |    | Enabled                 |   |
| Zone (4, 9 or 15) enabled***               |     | [1]                     |    | Disabled***             | *** NOTE 1: This feature applies to the 728+, 728DZ8+, 738+   |
| Auto arm = regular arm                     |     | [2]                     |    | Stay / System A         | ON) and zone 3 is defined as a fire zone, this zone must be   |
| N/A  |     | [3]                     |    | N/A                     | disabled. If using a 728+ or 728DZ8+, zone 4 will be  |
| N/A  |     | [4]                     |    | N/A                     | disabled. If using a 738+, zone 9 will be disabled. If using a 748+, zone 15 will be disabled.                    |
| N/A  |     | [5]                     |    | N/A                     |   |
| No tamper bypass                           |     | [6]                     |    | Tamper follows zone by  | pass definition   |
| N/A  |     | [7]                     |    | N/A                     |   |
| Zone doubling (ATZ)****                    |     | [8]                     |    | Enabled****             |   |
| Audible trouble warning                    |     | [9]                     |    | Enabled                 | 738+ and 748+ only.   |
| Duress                                     |     | [10]                    |    | Enabled                 |   |
| Keynad zone 1 supervision                  |     | [11]                    |    | Enabled                 |   |
| Keynad zone 2 supervision                  |     | [1 <i>2</i> ]           |    | Enabled                 |   |
| N/A  |     | ני- <u>-</u> ]<br>[פיה] |    | N/A                     |   |
| N/A  |     |                         |    | N/A                     |   |
|  |     |                         |    | N/A                     |   |
| IN/A                                       |     | [TRBL]                  |    | IN/A                    |   |

Table 6: Zone Definition

| KEY SELE                              | CT:   | [1]  | [2]  | [3]  | [4]    | [5]  | [6]  | [7]         | [8]      | [9] | [10]  | [11]  | [12]    |           | [1]      | [2] | [3] | [4]    | [5]   | [6]  | [7]   | [8] | [9] | [10] | [11] | [12] |
|---------------------------------------|-------|------|------|------|--------|------|------|-------------|----------|-----|-------|-------|---------|-----------|----------|-----|-----|--------|-------|------|-------|-----|-----|------|------|------|
|                                       |       | 1    | 2    | 3    | 4      | 5    | 6    | 7           | 8        | 9   | 10    | 11    | 12      |           | 13       | 14  | 15  | 16     | 17    | 18   | 19    | 20  | 21  | 22   | 23   | 24   |
| Intellizone = ON 0                    | 92:   |      |      |      |        |      |      |             |          |     |       |       |         | 094:      |          |     |     |        |       |      |       |     |     |      |      |      |
|                                       |       | 1    | 2    | 3    | 4      | 5    | 6    | 7           | 8        | 9   | 10    | 11    | 12      |           | 13       | 14  | 15  | 16     | 17    | 18   | 19    | 20  | 21  | 22   | 23   | 24   |
| Silent = ON 0                         | 96:   |      |      |      |        |      |      |             |          |     |       |       |         | 098:      |          |     |     |        |       |      |       |     |     |      |      |      |
|                                       |       | 1    | 2    | 3*   | 4      | 5    | 6    | 7           | 8        | 9   | 10    | 11    | 12      |           | 13       | 14  | 15  | 16     | 17    | 18   | 19    | 20  | 21  | 22   | 23   | 24   |
| 24 Hr. / Fire = ON 1                  | 00:   |      |      |      |        |      |      |             |          |     |       |       |         | 102:      |          |     |     |        |       |      |       |     |     |      |      |      |
| Keypad zones cann                     | not b | e se | etas | 24 H | r. zoi | nes. |      |             | *        | Whe | n zor | e 3 i | s defir | ned "24 H | Hr.", it | bec | ome | s a fi | re zo | ne   |       |     |     |      |      |      |
| <b>A</b>                              |       |      |      |      |        |      |      | 444         | <u> </u> |     |       |       |         |           |          |     |     |        |       |      |       |     |     |      |      |      |
|                                       |       | 1    | 2    | 3    | 4      | 5    | 6    | 7           | 8        | 9   | 10    | 11    | 12      |           | 13       | 14  | 15  | 16     | 17    | 18   | 19    | 20  | 21  | 22   | 23   | 24   |
| Instant = ON 1                        | 04:   |      |      |      |        |      |      |             |          |     |       |       |         | 106:      |          |     |     |        |       |      |       |     |     |      |      |      |
|                                       |       | 1    | 2    | 3    | 4      | 5    | 6    | 7           | 8        | 9   | 10    | 11    | 12      |           | 13       | 14  | 15  | 16     | 17    | 18   | 19    | 20  | 21  | 22   | 23   | 24   |
| Follow = ON 1                         | 08:   |      |      |      |        |      |      |             |          |     |       |       |         | 110:      |          |     |     |        |       |      |       |     |     |      |      |      |
|                                       |       | 1    | 2    | 3*   | 4      | 5    | 6    | 7           | 8        | 9   | 10    | 11    | 12      |           | 13       | 14  | 15  | 16     | 17    | 18   | 19    | 20  | 21  | 22   | 23   | 24   |
| Delay 2 = <b>ON</b> 1                 | 12:   |      |      |      |        |      |      |             |          |     |       |       |         | 114:      |          |     |     |        |       |      |       |     |     |      |      |      |
|                                       |       |      |      |      |        | SYS  | STEN | <b>IA</b> / | STA      | Y   |       |       |         |           |          |     |     |        | SYS   | STEN | 1 A / | STA | Y   |      |      |      |
| If ON, zone is armed on               |       | 1    | 2    | 3*   | 4      | 5    | 6    | 7           | 8        | 9   | 10    | 11    | 12      |           | 13       | 14  | 15  | 16     | 17    | 18   | 19    | 20  | 21  | 22   | 23   | 24   |
| Stay or "System A" <b>1</b><br>arming | 16:   |      |      |      |        |      |      |             |          |     |       |       |         | 118:      |          |     |     |        |       |      |       |     |     |      |      |      |
|                                       |       |      |      |      |        |      | SYS  | TEM         | В        |     |       |       |         |           |          |     |     |        |       | SYS  | TEM   | В   |     |      |      |      |
| If ON, zone is armed in               |       | 1    | 2    | 3*   | 4      | 5    | 6    | 7           | 8        | 9   | 10    | 11    | 12      |           | 13       | 14  | 15  | 16     | 17    | 18   | 19    | 20  | 21  | 22   | 23   | 24   |
| "System B" arming 1                   | 20:   |      |      |      |        |      |      |             |          |     |       |       |         | 122:      |          |     |     |        |       |      |       |     |     |      |      |      |
|                                       |       | 1    | 2    | 3*   | 4      | 5    | 6    | 7           | 8        | 9   | 10    | 11    | 12      |           | 13       | 14  | 15  | 16     | 17    | 18   | 19    | 20  | 21  | 22   | 23   | 24   |
| Bypass enable = ON 1                  | 24:   |      |      |      |        |      |      |             |          |     |       |       |         | 126:      |          |     |     |        |       |      |       |     |     |      |      |      |

Note: Do not use the Intellizone feature and an entry delay for the same zone, otherwise an alarm may occur as a user tries to disarm the system.

Zones that are not selected at addresses 100 to 114 become "Delay 1" zones.

#### **KEY ACCESS PROGRAMMING**

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

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

The system hardware will recognize the following zone conditions:

## SINGLE ZONE CONNECTIONS





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



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



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



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



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



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



#### OTHER CONNECTION DIAGRAMS





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



#### Figure 12: Connecting Two Keypad Zones (639 only)



Figure 13: Connecting Two Keypad Zones Using Two Keypads



#### Figure 14: Keypad Tamper Switch Connection



Figure 17: Fire Alarm Zone Connections





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It is recommended that all 4-wire smoke detectors be connected using a daisy chain configuration

## Figure 15: PGM Output Relay



## Figure 16: Ground Start Circuit



#### Figure 18: Fire Reset



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#### ESPRIT 728+ / 728EX+ / 728EX4+ / 728DZ8+ WIRING DIAGRAM



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#### ESPRIT 738+ / 738EX+ WIRING DIAGRAM





Esprit+ - 17 - Programming Guide

#### **ESPRIT 748+ WIRING DIAGRAM**





Zone 18

(2.2k)

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(2.2k)

Zone

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Zone 21

(2.2k)

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Zone 22

(2.2k)

Zone 20

(2.2k)

Г

Zone 17

(2.2k)

Zone 16

(2.2k)

Zone 15

Zone 14

(2.2k)

Г

Zone 13

(2.2k)

Zone 23

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Zone 24

(2.2k)







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