PROGRAMMER

SPECIFICATIONS & INSTRUCTIONS





System II



APPLICATION

The Z1100P is a hand held general purpose 256/1024-bit serial EEPROM programmer. This programmer is designed as an optional programming tool for use with the Z1100 Security Control and other EEPROM programmable devices.

SPECIFICATIONS

- Program 256-bit EEPROMs: National NMC 9306 NCR59306 General Instruments ER59256 or equivalent
- Program 1024-bit EEPROMs: National NMC 9345 National NMC 9346 NCR 59308
- or equivalent
- 16-digit membrane keypad
- Programmer dimensions: 4 x 7 x 1.75 inches
- Travel case dimensions: 12 x 8 x 3.5 inches
- Current drain: 250 milliamps @ 12 VDC
- Operating temperature range: 32 to 122 degrees Farrenheit (0 to 50 degrees Celsius)

FEATURES

- · English language menus and prompts make programming easier
- Read Security Control EEPROMs
- Program Security Control EEPROMs
- Store program libraries
- Easy-to-read alphanumeric liquid crystal display (LCD)
- Rugged travel case
- Compact size
- Comes complete and ready to use. No extra hardware to buy.

IMPORTANT NOTE:

This manual refers to and contains information about the Z1100 System II as well as the original Z1100. If your programmer has not been updated with the new software, then all references to the Z1100 "System II" will not be applicable.

To determine if your Z1100P programmer contains the new software, turn power switch on. If the LCD display reads "Progrm System II", your programmer contains the new software.

If your programmer reads "Program Z System" upon initial power up, contact Moose Products directly for instructions concerning updating your programmer.

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THEORY OF OPERATION

The Z1100P EEPROM Programer is designed to program the Z1100 Security Control and other products utilizing EEPROMs. The Z1100P will program two varieties of serial EEPROMs:

1024-bit EEPROM-

National NMC 9345

Naitonal NMC 9346

NCR 59308

or equivalent

256-bit EEPROM-

National NMC 9306

NCR 59306

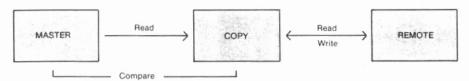
General Instruments ER59256

or equivalent

The EEPROM has many advantages:

- Nonvolatile operation. Data programmed into an EEPROM is not erased if power is removed.
- (2) Ease of handling. Conventional Fuse Link PROMs have to be programmed in a programmer, removed from the programmer, and then installed into a control system without bending or breaking any pins on the chip (or putting the PROM in backwards). EEPROMs on the Z1100P Programmer "talk" to the EEPROM on the Z1100 Security Control through an interface cable, eliminating the need to handle sensitive integrated circuits.
- (3) Multiple uses. Conventional fuse link PROMs can be programmed once, after which you have to start over again with a new PROM. An EEPROM can be programmed over ten thousand times.

EEPROM HIERARCHY



Two EEPROMs are installed on the programmer: MASTER and COPY EEPROMs. One EEPROM is installed on the control (or other programmable device): REMOTE EEPROM. The "COPY EEPROM" is the work area. All programming is done directly to the "COPY EEPROM". When reading or programming a "Remote Security Control", all data is written into or read from the "COPY EEPROM". Therefore a "COPY EEPROM" must be installed for the Z1100P to function properly. The data in the "MASTER EEPROM" can be read and programmed into the "COPY EEPROM", or the "MASTER EEPROM" can be compared with the "COPY EEPROM". No data can be programmed directly into the "MASTER EEPROM".

The Z1100P is equipped with a programming cable that plugs into the Z1100 Security Control and other compatible control systems, allowing the user to read the contents of the "REMOTE EEPROM" into the "COPY EEPROM", make any appropriate changes, and write the contents of the "COPY EEPROM" back into the "REMOTE EEPROM". The EEPROM on the "Remote Security Control" does not have to be removed from the printed circuit board for programming.

POWERING THE PROGRAMMER

The Z1100P Programmer can be powered in one of three ways:

- Remote Security Control power. The polarized programmer cable brings power from the remote security control to the programmer.
- (2) Plug-in Power Supply. The Z1100P comes with a plug-in power supply to power the programmer whenever remote security control power is not available.
- (3) Four "AA" alkaline batteries. Battery operation should be kept to a minimum, as the programmer consumes a considerable amount of current.

NOTE: Turn off power to the Z1100P and control to be programmed. Plug-in the programmer cable to the control. Turn on power to the Z1100P then turn on power to the control to be programmed.

KEYPAD OPERATION





Keypad digits 0 to 9 are for data entry.



Resets the Z1100P and the top of the option menu is displayed.



- (1) Select a menu option.
- (2) Enter displayed value into address ("Program System I", Program System II", and "Address Program" options).
- (3) Add bits together ("Address Program" option).

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Moves the cursor right ("Program System I", Program System I", and "Address Program" options).



Moves the cursor left ("Program System II", and "Address Program" options).



Moves the display line up to the previous menu option or previous address.

("Program System I", Progrm System II", and "Address Program" options).



- (1) Moves the display line down to the next menu option or next address.
- (2) Find displayed address. ("Program System I", Program System II", and "Address Program" options).

OPTION MENU

All programmer prompts and data displays are in english, language format on a 16-character liquid crystal display. This provides the user with clear, easy-to-read instructions and data.

Upon power-up the Z1100P defaults to 1024-bit EEPROM programming which is used by the Z1100 Security Control.

The LCD screen displays the top of the option menu:

Progrm System II - top of menu
Program System I
Address Program
Read MASTER
Read REMOTE
Program REMOTE
Compare M. To C.
256 bit EEPROM - bottom of menu

Find a menu option by pressing either



to go down the menu

or



to go up the menu

or



to go to top of the menu

Droop



to select the menu option.

NOTE: These four keys are the only keys that work from the menu; other keys are ignored and will cause the programmer to emit a 2-second error tone.

Program System II

"Progrm System II" menu option is designed for the Z1100 System II Security Control and other security controls that use the same programming format. System II is the second generation in the Z1100 Security Control family.

To select this option, have "Progrm System II" on the LCD screen and

press ENTER ADD

The LCD screen will display Function = 000

Enter the first function to be programmed and

press



pres







EXAMPLE: Go to function 17

The LCD screen will display: 017 = 030 Exit Time In Sec.

You can change the cursor position with either



Moves the cursor right and fill with 0

or



Erase right most digit

The cursor points to the position where the next digit will be entered if a keypad digit (0 to 9) is pressed. When the correct value is displayed on the LCD screen

press



to write the value into the Copy EEPROM.

NOTE: Preceeding 0's are not required.

The Z1100 System II program functions have a range of 1 to 220. The valid range for a programmed ∳alue is 0 to 255.

To go to the next function



To go the the previous function



To find any other function, place the function in the LCD display and

press



Example: Find function 168.

Proce









The LCD screen will display:

PH #1 F

(Phone number 1 digit 1)

Entire telephone number 1 with "F" as stop character.

For complete LCD screen information, reference "Program System II LCD screen messages" and the **Z1100 System II SECURITY CONTROL SPECIFICATIONS & INSTRUCTIONS** Manual L1124.



to exit System II programming

LCD screen will display Set Parity? No = 0

The Z1100P will automatically set the copy EEPROM Parity Byte if any key other than 0 is pressed and return to the top of the main menu.

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Program System I

"Program System I" menu option is designed for the Z1100 System I Security Control and other security controls that use the same programming format. System I is the first generation in the Z1100 Security Control family.

To select this option, have "Program System I" on the LCD screen and

The LCD screen will display:
000 = 002 Fast Loop Response In 40ms Steps

Copy EEPROM memory address

Cursor

Value stored in Copy EEPROM address

[Scrolling address description]

You can change the cursor position with either



The cursor points to the position where the next digit will be entered if a keypad digit (0 to 9) is pressed. When the correct value is displayed on the LCD screen,

press



to write the value into the Copy EEPROM.

NOTE: Preceeding 0's are not required.

The EEPROM memory address has a range of 000 to 127. The valid range for a programmed value is 000 to 255.

To go to the next Copy EEPROM address,

ess FIND

To go to the previous Copy EEPROM address,

press C

To find any other Copy EEPROM memory address, place the memory address in the LCD display and

press FIND

Example: Find Copy EEPROM memory address 068.

Press



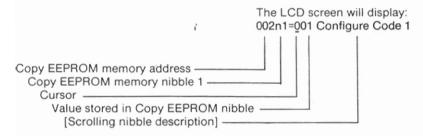




The LCD screen will display: 068=255 Ph #1 01 (Phone number 1 digit 1)

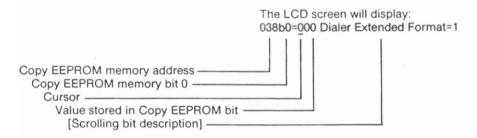
Most EEPROM memory addresses in "Program System I" programming are byte programmed. However, some addresses are nibble and bit programmed.

NIBBLE Programming (2 nibbles per address [byte])
Range: 000 to 015



NOTE: Nibble programming applies only to AUTHORIZATION codes and the Program code. (You may find it easier to program codes with the Z1100R keypad. See the Z1100 SPECIFICATIONS & INSTRUCTIONS Manual L1128 for more information.)

BIT Programming (8 bits per address [byte]) Range: 000 to 001



For complete LCD screen information, reference "Program System I LCD screen messages" and the **Z1100 SECURITY CONTROL SPECIFICATIONS & INSTRUCTIONS** Manual L1128.

Press

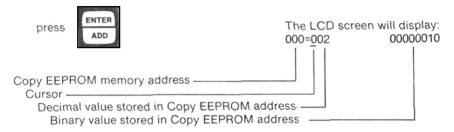


to exit programming and return to menu.

Address Program

"Address Program" menu option is designed for systems that cannot be programmed with the "Program System II" or "Program System I" options.

To select this option, have "Address Program" on the LCD screen and

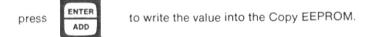


The EEPROM memory address has a range of 0 to 127 in the 1024-bit EEPROM mode and 0 to 031 in the 256-bit EEPROM mode.

You can change the cursor position with either



The cursor points to the position where the next digit will be entered if a keypad digit (0 to 9) is pressed. When the correct value is displayed on the LCD screen,



The valid range for a programmed value is 0 to 255.

To go to the next Copy EEPROM address, To go to the previous EEPROM address,

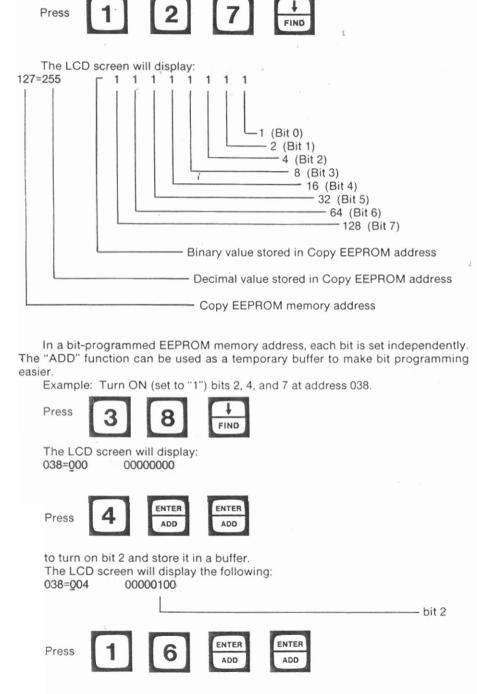


To find any other Copy EEPROM memory address, place the memory address in the LCD display and



Example: Find Copy EEPROM memory address 127.

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to turn on bit 4 and store it in a buffer.

The LCD screen will display:
038=020 00010100

bit 4

Press 1 2 8 ENTER ADD

to turn on bit 7 and store it in a buffer.
The LCD screen will display:
038=148 10010100

bit 7

Bits 2, 4, and 7 are turned on and programmed into the Copy EEPROM.

Press RESET

to exit programming and return to menu.

Read MASTER

The "Read MASTER" menu option reads the data stored in the "MASTER EEPROM" and writes the data into the "COPY EEPROM".

CAUTION: If this menu option is selected, data in the "COPY EEPROM" will be lost and the "MASTER EEPROM" data put in its place.

To select this option, have "Read MASTER" on the LCD screen and

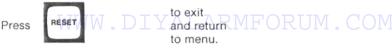
press

The LCD screen will display: **Read MASTER Complete.

Libraries of various system configurations can be stored in a "MASTER EEPROM" to be downloaded to a "REMOTE EEPROM" (via the "COPY EEPROM"). Programming a "MASTER EEPROM would save considerable time and programming effort if most of your installations are set up with the same characteristics.

For example, a "MASTER EEPROM" can be built for residential systems basic zone definitions, entrance, exit delay times, digital communicator reporting codes and central station telephone numbers. Another "MASTER EEPROM" can be built (with different characteristics) for commercial systems.

The "MASTER EEPROM" must be moved to the "COPY EEPROM" socket for programming, and then moved back to the "MASTER EEPROM" socket.



Read REMOTE

The "Read REMOTE" menu option uploads (reads) the data stored in the "REMOTE EEPROM" (on a Security Control) and writes the data into the "COPY FEPROM"

The Z1100P Programmer Cable must be connected to a Security Control Programmer Plug for this option to work.

CAUTION: If this menu option is selected, data in the "COPY EEPROM" will be lost and the "REMOTE EEPROM" data put in its place.

To select this option, have "Read REMOTE" on the LCD screen and



Program REMOTE

The "Program REMOTE" menu option downloads (writes) the data stored in the "COPY EEPROM" to a "REMOTE EEPROM"

The Z1100P Programmer Cable must be connected to a Security Control Programmer Plug for this option to work.

CAUTION: If this menu option is selected, data in the "REMOTE EEPROM" will be lost and the "COPY EEPROM" data put in its place.

To select this option, have "Read REMOTE" on the LCD screen and



Compare Master EEPROM to Copy EEPROM

The LCD screen will display either:

The "Compare M. To C." menu option compares each memory address in the "MASTER EEPROM" to the corresponding data in the "COPY EEPROM".

To select this option, have "Compare M. to C." on the LCD screen and



"COMPARE Complete.

or

000 M=002 C=128

COPY EEPROM value

MASTER EEPROM value

EEPROM address where MASTER

and COPY are different.

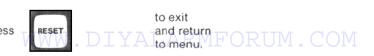


to display the next memory address where the MASTER and COPY EEPROM are different.

NOTE: Z1100 System II Functions do not correspond to EEPROM addresses.

When all addresses have been displayed (or if the MASTER and COPY both contain exactly the same information) the LCD screen will display:

"**COMPARE Complete."



256 bit EEPROM

This option configures the Z1100P for 256-bit EEPROMS and should not be used unless instructed to do so by the installation instructions. The programming sequence is different from the 1024-bit EEPROM. The user can only access 32 memory locations (0 to 031) in "Address Program" and is locked out of "Program System II" and "Program System I" programming.

To configure the Z1100P for 1024-bit EEPROMS the power switch must be turned

off and then back on.

To select this option, have "256 bit EEPROM" on the LCD screen and

press ENTER ADD

The LCD screen will display: **Configured For 256 Bit EEPROM.

Press RESET

to exit and return to menu.

"Program System II" LCD screen messages.

Reference **Z1100 System II SPECIFICATIONS & INSTRUCTIONS** - L1124 for additional information.

FUNCTION	LCD screen MESSAGE	56.	Configure Code 3
1.	Auth. Code 1	50. 57.	Configure Code 4
2.	Auth. Code 2	58.	Configure Code 5
3.	Auth. Code 3	59.	Configure Code 6
4.	Auth, Code 4	60.	Configure Code 7
5.	Auth. Code 5	61.	Configure Code 8
6.	Auth. Code 6	62.	Configure Code 9
7.	Auth, Code 7	63.	Two Digit Arm = 1
8.	Auth. Code 8	64.	Command 4 & 5 Works If Armed = 1
9.	Auth. Code 9	65.	Interior/Delay Mode
10.	Program Auth. Code	66.	Disable Keypad FIRE = 1
11.	Usage Count Code 9	67.	Disable Keypad POLICE = 1
12.	Not Programmed	68.	Disable Keypad MEDICAL = 1
13.	Zones Violated	69.	Disable Keypad Shunting = 1
14.	Delete Code 1-9	70.	No Keypad Beep On Burg = 1
15.	Not Programmed	71.	Silent Keypad POLICE = 1
16.	Installer Program Auth. Code	72.	Start Entrance 1 From Keypad = 1
17.	Exit Time In Sec.	73.	Disable Keypad Command 4 = 1
18.	Entrance 1 Time In Sec	74.	Disable Keypad Command 5 = 1
19.	Entrance 2 Time In Sec	75.	Disable Keypad Command 6 = 1
20.	Access Time In Sec	76.	Disable Keypad Command 7 = 1
21.	Delay Before Burg. Alarm In Sec	77.	Disable Keypad Command 8 × 1
22.	BURG Cutoff Time In Min	78.	Delay Before Report In Sec
23.	FIRE Cutoff Time In Min	79.	Dialer Attempts
24.	POLICE Cutoff Time In Min	80.	Abort Dialer = 1
25.	MEDICAL Cutoff Time In Min-	81.	Disable Test On Power Up = 1
26.	Pulsing Burg = 1	82.	Exception Opening = 1
27.	Pulsing Fire = 1	83.	Account Code Digit 1 Ph #1
28.	BURG Audible Lockout = 1	84.	Account Code Digit 2 Ph #1
29.	Change Mode With Key = 1	85 .	Account Code Digit 3 Ph #1
30.	Supervisory Latch = 1	86 .	Account Code Digit 4 Ph #1
31.	Auto Interior Off = 1	87.	Trans Format Ph #1
32.	Auto instant = 1	88.	Single Round = 1 Ph #1
33.	No Interior Follower = 1	89.	_ 4/2 Format = 1 Ph #1
34.	1 Sec Siren Test On Arm = 1	90.	Standard Extended Format = 1 Ph #1
35.	Days Til Test = 0 - 7	91.	A+ Extended Format = 1 Ph #1
36.	Fast Loop Response In 40ms Steps	92.	Radionics Parity = 1 Ph #1
37.	Slow Loop Response In 40ms Steps	93.	Touchtone® = 1 Ph #1
38.	Zone 1	94.	Zone 1 Dialer Code Ph #1
39.	Zone 2	95.	Zone 2 Dialer Code Ph #1
40.	Zone 3	96.	Zone 3 Dialer Code Ph #1
41.	Zone 4	97.	Zone 4 Dialer Code Ph #1
42.	Zone 5	98.	Zone 5 Dialer Code Ph #1
43.	Zone 6	99.	Zone 6 Dialer Code Ph #1
44.	Zone 7	100.	Zone 7 Dialer Code Ph #1
45.	Zone 8	101.	Zone 8 Dialer Gode Ph #1
46.	Zone 1 Short For Supervisory = 1	102.	Keypad FIRE Dialer Code Ph #1
47.	Zone 2 Short For Supervisory = 1	103.	Keypad POLICE Dialer Code Ph #1
48.	Zone 3 Short For Supervisory = 1	104.	Keypad MEDICAL Dialer Code Ph #1
49.	Zone 4 Short For Supervisory = 1	105.	Duress Dialer Code Ph #1
50.	Zone 5 Short For Supervisory = 1	106.	Opening Dialer Code Ph #1
51.	Zone 6 Short For Supervisory = 1	107.	Closing Dialer Code Ph #1
52. 53 .	Zone 7 Short For Supervisory = 1	A 108.V	Shunted Dialer Code Ph #1
53. 54.	Zone 8 Short For Supervisory = 1 Configure Code 1	109.	Cancel Dialer Code Ph #1
54. 55.	Configure Code 2	110. 111.	Restore Dialer Code Ph #1
33.	Configure Code 2		Supervisory Dialer Code Ph #1

FUNCTION LCD screen MESSAGE

112.	Lo Batt Dialer Code Ph #1	173.	Ph #1 (Digit 6)
113.	Battery Restore Dialer Code Ph #1	374.	Ph #1 (Digit 7)
114.	AC Fail Dialer Code Ph #1	175.	Ph #1 (Digit 8)
115.	AC Restore Dialer Code Ph #1	176	Ph #1 (Digit 9)
116.	Memory Error Dialer Code Ph #1	177	Ph #1 (Digit 10)
117.	Test Digler Code Ph #1	178	Ph #1 (Digit 11)
118.	Account Code Digit 1 Ph #2	179.	Ph #1 (Digit 12)
119.	Account Code Digit 2 Ph #2	180,	Ph #1 (Digit 13)
120.	Account Code Digit 3 Ph #2	181.	Ph #1 (Digit 14)
121.	Account Code Digit 4 Ph #2	182.	Ph #1 (Digit 15)
122.	Trans Format Ph #2	183.	Ph #1 (Digit 16)
123.	Single Round = 1 Ph #2	184.	Ph #1 (Digit 17)
124.	4/2 Format = 1 Ph #2	185.	Ph #1 (Digit 18)
125.	Standard Extended Format = 1 Ph #2	186.	Ph #1 (Digit 19)
126.	A+ Extended Format = 1 Ph #2	10,.	Ph #1. (Digit 20)
127.	Radionics Parity = 1 Ph #2	188.	Ph #1 (Digit 21)
128.	Touchtone = 1 Ph #2	189.	Ph #1 (Digit 22)
129.	Zone 1 Dialer Gode Ph #2	190.	Ph #1 (Digit 23)
130.	Zone 2 Dialer Code Ph #2	191.	Ph #1 (Digit 24)
131.	Zone 3 Dialer Code Ph #2	192.	Ph #1 (Digit 25)
132.	Zone 4 Dialer Code Ph #2	193.	Ph #1 (Digit 26)
133.	Zone 5 Dialer Gode Ph #2	194.	Not Programmed
434	Zone 6 Dialet Code Ph #2	195.	Ph #2 (Digit 1)
135	Zone 7 Dialer Code Ph #2	196.	Ph #2 (Digit會)
136.	Zone 8 Dialer Gode Ph #2	197.	Ph #2 (Digit 3)
137.	Keygait FIRE Dialer Code Ph #2	198.	Ph #2 (Digit 4)
138.	Keypard POLICE Dialer Code Ph #2	199.	Ph #2 (Digit 5)
739.	Keypad MEDICAL Dialer Code Ph #2	200	Ph #2 (Digit 6)
140.	Diges Dister Code Ph #2	201.	Ph #2 (Digit 7)
141	Opening Dialer Code Ph #2	202.	Ph #2 (Digit 8)
142.	Closing Dialer Code Ph #2	203.	Ph #2 (Digit 9)
143.	Shusted Dialer Code Ph #2	204.	Ph #2 (Digit 10)
144	Cancel Dialer Code Ph #2	205.	Ph #2 (Digit 11)
145	Restore Dister Code Ph #2	206.	Ph #2 (Digit 12)
.146	Supervisory Dialer Code Ph #2	207.	Ph #2 (Digit 13)
147.	Lo Batt Dialer Code Ph #2	208.	Ph #2 (Digit 14)
148.	Battery Restore Dialer Code Ph #2	209.	Ph #2 (Digit 15)
149.	AC Fall Dialer Code Ph #2	210.	Ph #2 (Digit 16)
150.	AC Restore Dialer Code Ph #2	211.	Ph #2 (Digit 17)
151.	Memory Error Dialer Code Ph #2	212.	Ph #2 (Digit 18)
152.	Test Dialer Code Ph #2	213.	Ph #2 (Digit 19)
153.	Not Programmed	214.	Ph #2 (Digit 20)
154.	Not Programmed	215	Ph #2 (Digit 21)
155.	Not Programmed	216.	Ph #2 (Digit 22)
156.	New EEPROM = 1	217.	Ph #2 (Digit 23)
157,	Listen-In Active = 1 Ph #1	218.	Ph #2 (Digit 24)
158.	Listen-in Active = 1 Ph #2	219.	Ph #2 (Digit 25)
159.	Line Seize Hangup Time In Sec	220.	Ph #2 (Digit 28)
160.	Dial Attempt Wait Time In Sec		
161.	Extended AC Code		
162.	Extended Battery Code		
163.	Extended Memory Error Code		
164	Extended Test Code		
165.	Extended Kaypad Code		
166.	Fmt. 0. 1. 2 Radionics Parity = 1		
167.	Not Programmed		
166.	Ph#1 (Digit 1)		
169.	Ph #1 (Digit 2)		
170	WPD #1 (Digit 3) YALARMF		
171, V		URUI	
172	Ph #1 (Digit 5)		
	18		

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"Program System I" LCD screen messages

Reference Z1100 SPECIFICATIONS & INSTRUCTIONS Manual L1128 for additional information.

ADDRESS	LCD screen MESSAGE	03857 039	Change Mode With Key = 1 Not Programmed
000	Fast Loop Response in 40ms Steps	040	Interior/Delay Mode
001	Slow Loop Response in 49ms Steps	041	Dialer Attempts
002n1	Configure Code 1	042	
002n0			Phone #1 Trans Formul
ACCRETATION NAME.	Digit 2 Code 1	043	Phone #2 Trans Formst
003n1	Digit 3 Code 1	044	Account Digit 1
003n0	Digit 4 Code 1	045	Account Digit 2
004n1	Digit 5 Code 1	044	Account Digit 3
QQ4mQ	Digit & Code 1 .	047	Silent POLICE-0
005	Two digit Arm=0	048	Zone 1 Dialer Code
006m1	Configure Code 2	049	Zone 2 Dialer Code
006n0	Digit 2 Code 2	050	Zone 3 Disler Code
007n1	Digit 3 Code 2	051	
Maria Maria Maria			Zone 4 Disler Code
007n0	Digit 4 Code 2	052	Zone 5 Dialer Code
008n1	Digit 5 Code 2	053	Zone 6 Dialer Code
Q06n0	Digit 6 Code 2	054	Zone 7 Dialer Code
009	New EEPROM*255	055	Zone 8 Disler Code
010n1	Configure Code 3	056	KB FIRE Dialer Code
010n0	Digit 2 Code 3	057	KB POLICE Dialer Code
011n1	Digit 3 Code 3	058	KB MEDICAL Dialer Code
011n0	Digit 4 Code 3	059	Opening Code +16=Exception
012n1	Digit 5 Code 3	060	Closing-No Zone Shunted Cod
012n0		061	
THE PARTY PARTY	Digit 6 Code 3		Closing-Zone Shunted Code
013	Usage Count Code 4	062	Cancel Dialer Code
014n1	Configure Code 4	063	Restore Dialer Code
014n0	Digit 2 Code 4	064	FIRE Trouble Dialer Code
015m1	Digit 3 Code 4	065	Lo Batt Dialer Code
015n0	Digit 4 Code 4	068	Test Dialer Gode
016n1	Digit 5 Code 4	067b0	"SPECIAL" Zone 1 N.O.41
016n0	Digit 6 Code 4	067b1	"SPECIAL" Zone 2 N.O. *1
017	Access Time In Sec.	06762	"SPECIAL" Zone 3 N.O. "1
018n1	Digit 1 Not Programmed	067b3	
018n0			"SPECIAL" Zone 4 N.O.*1
No 100 J. D. 100.	Digit 2 Program Code	06764	"SPECIAL" Access Active-1
019n1	Digit 3 Program Code	680	Ph. #1 01
019n0	Digit 4 Program Coda	069	Ph. #1 02
020n1	Digit 5 Program Code	070	Ph. #1 03
G59vQ	Digit 6 Program Code	071	Ph. #1 04
021	Not Programmed	072	Ph. #1 05.
022	Zone 1	073	Ph. #1 06
023	Zone 2	074	Ph. #1 07
024	Zone 3	075	Ph. #1 08
025	Zone 4	078	Ph. #1 09
026	Zone 5		
027		077	Ph. #1 10
	Zone 6	078	Ph. #1 11
028	Zone 7	079	Ph. #1 12
059	Zone 8	080	Ph. #1 13
030	Exit Time Sec	061	Ph. #1 14
031	Entrance I Time In Sec	082	Ph. 81 15
032	Entrance 2 Time In Sec	063	Ph. #1 16
033	Delay Before Report Time in Sec	084	Ph. #1 17
034	BURG Cutoff Time In Min	085	Ph. #1 18
005	FIRE Cutoff Time In Min	086	Ph. #1 19
035	POLICE Cutoff Time In Min	087	
007			Ph. #1 20
- encode on	MEDICAL Cutoff Time In Min	088	Ph. #1 21
Q3660	Dialer Extended Format=1	089	Ph. #1 22
008b1	Dialer Single Round=1	090	Ph. #1 23
03062	Pulsing Burg=1	091	Ph. #1 24
038b3	1 Sec Siren Test On Arm=1	092	Ph, #1 25
03864	Silent BURG Violation=1	093	Ph. #1 26
039b5	Phone #1 Touchtone=1/ T 7/ D	// OPA OPITI	/Ph. #1 27
038b6	Phone #2 Touchtone=1		Ph. #1 26
	10	ALMAN.	a ter tax with

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FUNCTION	LCD screen MESSAGE
096	Ph. #1 29 Ph. #1 30 Ph. #2 01 Ph. #2 02 Ph. #2 03
097	Ph. #1 30
098	Ph. #2 01
099	Ph. #2 02
100	Ph. #2 03
101	Ph. #2 04
102	Ph. #2 05
103	Ph. #2 06
104	Ph. #2 06 Ph. #2 07
10%	Ph #2 DR
106	Ph. #2 09
107	Ph. #2 10
108	Ph. #2 11
109	Ph. #2 12 Ph. #2 13 Ph. #2 14
110	Ph. #2.13
111	Ph. #2 14
112	Ph. #2 15
113	Ph. #2 16
114	Ph. #2 17 Ph. #2 18 Ph. #2 19 Ph. #2 20
115	Ph. #2 18
116	Ph. #2 19
117	Ph. #2 20
118	Ph. #2 21
119	Ph. #2 22
120	Ph. #2 23
121	Ph. #2 24
122	Ph. #2 25
123	Ph. #2 26
	Ph. #2 27
125	Ph. #2 28
126	Ph. #2 29
127	Ph #2 30

GLOSSARY

- Address programming. High level programming. This level of programming is used to custom design the Z1100 system. For example, enter 033 into Address 024 to define Zone 3 as a Burglar Standard Perimeter zone with Lockout.
- Authorization code. A programmable code that is used with a Command.
- The smallest quantity the Z1100 system can recognize. A bit can be set high (1) or low (0). Eight bits make up one byte. Some Address programming involves "setting" individual bits of a byte, such as Address 038.
- Byte. The unit of measure for Z1100 system memory. One byte contains eight bits and can store any value from 000 to 255. Most Z1100 programming is byte programming; that is, you select a feature by Address byte.
- Configuration digit. The first programmed digit of any code. This digit is used only by the Z1100 system, not by the end user.
- Copy EEPROM. The "buffer" chip where information is stored during programming. Cursor. The underline character displayed on the Programmer screen.
- Default. Preset values. The Z1100 system comes with default exit time, entrance times, cutoff times, zone definitions, and other features. The default program makes installation and testing easier.
- **Download.** Send information from the Copy EEPROM to the Remote EEPROM.
- EEPROM. Special type of nonvolatile memory chip used in the Z1100 system. EEPROMs do not lose information (programming) if power fails.
- LCD. Liquid Crystal Display. The alpha-numeric display on the programmer.
- Loop response time. The amount of time (in milliseconds) that a zone will have to be violated in order to cause an alarm.
- Master EEPROM. Use this chip to store custom programming. For example, the Master EEPROM could contain digital communicator parameters: reporting codes, telephone numbers, and transmission formats. Write information from the Master to the copy and then Download the information to the Remote EEPROM on the Z1100 control—a simple and efficient way of doing otherwise complex programming.
- Nibble. One half of a byte (2 nibbles = 1 byte), Some Address programming requires that each nibble be programmed independently, such as Address 002.
- Remote EEPROM. The Z1100 system's on board program-storage chip.
- System I. The first generation Z1100 Security Control.
- System II. The second generation Z1100 Security Control. Upload. Send information from the Remote EEPROM to the Copy EEPROM.
- Zone Definition. How a zone is defined. Zones can be burglar, fire, police, medical, or key.

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FCC COMPLIANCE

This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications of Subpart J of part 15 of FCC rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures.

- 1. Reorient the TV or radio antenna.
- 2. Relocate or move the alarm control away from the receiver.
- Plug the transformer for the alarm into a different outlet so that the receiver and the alarm are on different branch circuits.
- If necessary, the user should consult the alarm dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful:

"How To Identify and Resolve Radio-TV Interference Problems." This booklet is available from the U.S. Government Printing Office, Washington, DC 20402 stock #004-000-00345-4.

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