Jan 11, 1993 Software Version 1.3

PROGRÁMMING MANUAL



PROGRAMMING THE PC4000

The PC4000 incorporates a new method of programming which uses a menu system to find a specific program location when is to be entered.

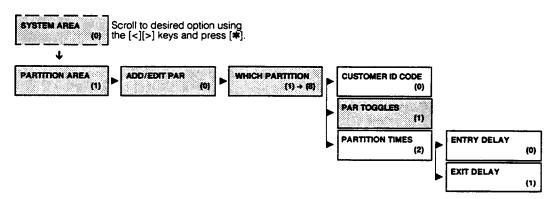
Book 1 contains the programming flow charts for the PC4000. The charts are arranged in such a way as to allow you to quickly find any option and the path required to arrive at the program location. In addition you will be able to see other options also available to you in the program area.

Plain boxes are program areas and shaded boxes are menu selections.

Two methods may be used to select the different menu items to arrive at a program location. With the first, you may use the arrow keys (<>) to scroll through the menu items. When the desired item is displayed press the [*] key. The [*] key is used as an 'ENTER' or 'SELECT' key. The panel will then move you to the next set of options.

The other method incorporates a 'HOTKEY' system. Every menu and program item contains a one or two digit 'HOTKEY' entry. Simply press the number(s) in the menu or program box and the panel will automatically select the item for you. DO NOT PRESS THE [*] AFTER ENTERING THE 'HOTKEY' NUMBER. This second method is much quicker once you become familiar with it.

EXAMPLE: We wish to program the Exit Delay for Partition 4. The following is the flow chart located in Book 1.



Using the first method the arrow keys would have to be pressed many times to scroll to the various items followed by the [*] key to select the item. Twelve keystrokes would be required after entering Installer Programming providing no mistakes are made. The keystrokes required are as follows:

[>], [*] to select PARTITION AREA [*] to select ADD/EDIT PAR [>], [>], [*] to select to PARTITION 4 [>], [>], [*] to select PARTITION TIMES [>], [*] to select EXIT DELAY

Using the second 'HOTKEY' method we require only 5 keystrokes:

[1] to select PARTITION AREA
[0] to select ADD/EDIT PAR
[4] to select PARTITION 4
[2] to select PARTITION TIMES
[1] to select EXIT DELAY

With less keystrokes required, programming is quicker as there is less chance of an error occurring.

At any time you may press the [#] key to exit a section. ANY DATA ENTERED WILL BE CHANGED. THE [#] KEY IS NOT AN ABORT KEY! The [#] key can also be pressed to move you back to the previous menu. Pressing the [#] key several times will exit you from Installer Programming.

To make programming easier the INDEX at the back of the Programming Manual includes the chart number beside every option as well as the page number for a description of the option.

PROGRAMMING TOGGLE OPTIONS

Some program areas contain several toggle options which pertain to the menu item selected. Use the arrow keys (<>) to scroll through the various items. Press the [*] key to toggle between [Y]es and [N]o for each feature. Once all the toggle options have been programmed press the [*] key to save you changes return to the previous menu.

PROGRAMMING HEX DIGITS

Often HEX digits are required for a program item. When a HEX digit is required press the [*] key to enter the HEX menu. You may use the arrow keys to scroll through the HEX digits (A through F) and when the desired letter is displayed press the [*] key.

Another much quicker method for entering HEX digits is to, first, press the [*] key followed by the number corresponding to the HEX letter i.e. A = 1, B = 2, C = 3, up to F = 6. The [*] key must be pressed before entering each HEX digit as the software returns you to decimal programming automatically after each entry.

EXAMPLE: To enter data 'ABCD' on a PC4000 you would enter:

[*****], [**1**], [*****], [**2**], [*****], [**3**], [*****], [**4**]

NOTE - The [*] key is required before every HEX digit entered.

PROGRAMMING MANUAL

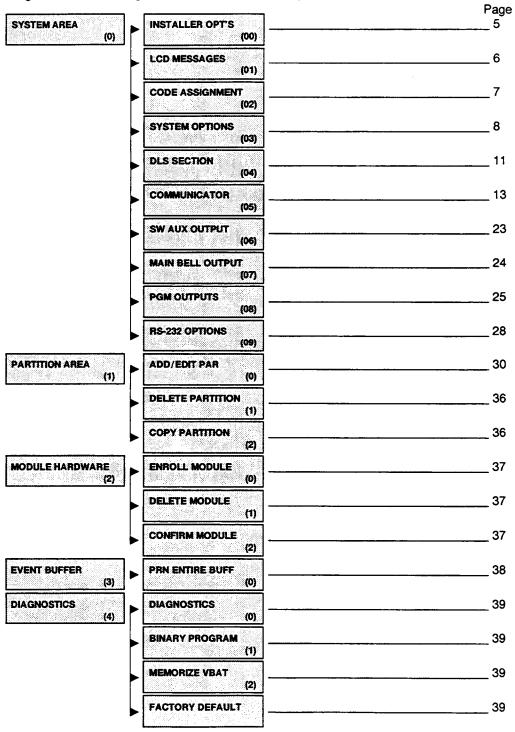
The PC4000 Installer's Programming is broken down into 5 major sections:

System Area Area for programming options which affect the operation of the entire system. For example communications, downloading, printer options etc. are options which affect the overall system and are programmed in the system area. **Partition Area** Area for programming options which pertain to individual partitions. For example the zone assignment, entry delay time and exit delay time are all options which can be programmed for each of the partitions.

Module Hardware For enrolling and deleting modules.

Event Buffer For the installer to reprint the entire event buffer.

Diagnostics For viewing trouble conditions reported by the modules.



INSTALLER OPTIONS

INSTALLER OPTS (00)

Installer Options. There are access codes programmable by the installer and the installer's lockout feature.

PGM INST CODE

(0)

Program Installer's Code. A new Installer's Code can be programmed. The default setting is 4000. Enter a new 4 digit code using numbers from 0 to 9 only. The installer's code is used to enter [*][8] Installer's Programming Commands. This code should be changed from the default setting before programming is complete to ensure the security of the system.

NOTE: If the installer's code is lost, and installer's lockout is enabled, there is no way to enter installer's programming. The panel will have to return to DSC. Panels returned to DSC with the installer's lockout feature enabled and no other apparent problems will be subject to an additional service charge.

PGM GRAND MASTER (1)

Program Grand Master Code. Master code 001 is the System Grand Master Code. This is the only code which can program other system master codes. The default for this code is '1234'. This code should be changed from the default setting once programming is complete to ensure the security of the system.

PGM 2ND MAS CODE

The Installer may program a second System Grand Master Code which has the same access as the System Grand Master Code 001. The Second Master Code is not one of the programmable 128 access codes in [*][5] programming and therefore cannot be changed by the user. This code may be used as a Master Key for service and trades people. This code is blank by default.

INS LOCKOUT OPTS (3)

Installer's Lockout prevents the installer's code and downloading access code from being returned to their default values when a hardware or software default occurs.

NOTE: Panels returned to DSC with the installer's lockout feature enabled and no other apparent problems will be subject to an additional service charge.

ENABLE LOCKOUT (1)

Selecting this section will enable Installer's lockout and display the message "Ins Lockout Enabled".

DISABLE LOCKOUT (2)

Selecting this section will disable Installer's lockout and display the message "Ins Lockout Disabled".

LCD MESSAGES

LCD MESSAGES (01)

Programming unique zone labels and special messages to be displayed on the LCD keypad.

CUSTOM ZONE ID (0

Programming additional zone labels that are not included in the library of 224 zone labels supplied in Appendix B. See "Zone Label" for assigning the labels to a zone. There are 32 zone labels that can be up to 14 characters in length each. Upon entering this section, use the [<][>] keys to toggle through the 32 programmable zone labels, numbered 224 to 255, and press the [*] key to select which zone label to program. A cursor will appear under the first character of the zone label. The cursor can be moved to left or right using the [<][>] keys. The letters of the alphabet have been divided up among the 1-9 number keys on the keypad.

For example, if you press the [4] key, the letter 'J' will appear above the cursor on the display. Press the [4] key again, the letter 'K' will appear above the cursor. Press the [4] key a third time and the letter 'L' will appear above the cursor. Press it again and the number '4' will appear on the display. If a different key is pressed, for example the [6] key, the cursor will automatically move to the right one space, and the letter 'P' will be displayed. To erase a character, move the cursor under the character using the [<][>] keys, and press the [0] key.

While programming the zone label, press the [*] key to call up an options menu. To select an option, either press the corresponding number key, or toggle through the options using the [<][>] keys and press the [*] key to select.

- [0] Clear Display [1] Clear to End [2] Change Case [3] ASCII Entry (See appendix A)
- [0] Clear Display will clear the entire zone label.
- [1] Clear to End will clear the display from the character where the cursor was located to the end of the display.
- [2] Change Case will toggle the letter entry between upper case letters (ABC...) and lower case letters (abc...).
- [3] ASCII Entry is for entering uncommon characters. There are 255 characters, but 000 to 031 are not used. Use the [<][>] keys to toggle through the characters or enter a three digit number from 032 to 255. Press the [*] key to enter the character into the zone label.

EVENT MESSAGES (1)

Event messages are two custom messages programmed by the installer. These messages will be displayed on the keypad when the user fails to arm or an alarm occurs while the system was armed. The maximum length of the messages are 32 characters. See "Custom Zone ID" for letter entry and options menu.

See [*][6][Master Code][6] User Functions in the System Manual for enabling these messages on each partition.

FAIL TO ARM (0)

The "Fail To Arm" message will appear on every keypad on a partition when a valid code is entered but the system is unable to arm because a zone is not secure.

The message will clear after 5 seconds.

This message can be used to remind the user to check all zones and make sure they are secure before attempting to arm the system.

ALARM WHEN ARMED (1)

The "Alarmed When Armed" message appears when a partition is disarmed after an alarm has occurred. The message will be displayed on all keypads on the partition being disarmed. The message will clear after 5 seconds and display the zone(s) that went into alarm. This message can be used to remind the users of what to do in their situation.

CODE ASSIGNMENT

CODE ASSIGNMENT (02)

Before programming any of the access codes for the user, the installer must first assign the number of access codes each partition will contain. There are 128 access codes available which may be assigned as System Master codes or user codes on any of the 8 partitions.

In the default setting, 1 code is assigned as a System Master and the remaining 127 codes are assigned to Partition 1. In order to assign additional System Master codes or user codes to another partition, they must first be deleted from partition 1. This can be done by entering a smaller number for codes assigned to partition 1. These codes will then be available to be assigned as System Master or to another partition.

For example, when partition 1 codes are selected the keypad will display the following message:

PAR 1 CODES ENT 000-127 127

The keypad is displaying the number of codes assigned to partition 1 (127) as well as the number of codes available for that partition (000 to 127). This means any number of access codes from 0 to 127 can be assigned to partition 1. Enter a number smaller than 127, for example 015. There are now 15 codes assigned to partition 1, and 112 codes available to be assigned to other partitions or as System Masters. If partition 2 codes are selected, the keypad will display 000 codes assigned and 000 to 112 available.

There should always be one or more codes assigned to System Master since the first access code, Access Code 001 is the System Grand Master access code which must be a System Master. It is the only user code that programs other System Master access codes. (The Installer's 2nd Grand Master Access code can also be used to program System Master access codes, but it is not one of the assignable 128 access codes. See "Pgm 2nd Master".)

SYSTEM OPTIONS

SYSTEM OPTIONS (03)

Options and times in this section are relevant to the whole system.

Sys Toggle Options

SYS TOGGLE OPT (0)

Toggle options are in question form. Use the [*] key to toggle between Yes and No to enable or disable the feature. Use the [<][>] keys to scroll through the options.

ZONES EOL

Zones require End of Line Resistors?

YES = All zones must have a 2200 ohm resistor across them. If the zone is shorted or open, it will be in a violated condition. If the zone is open and programmed as a fire zone, it will be in a trouble condition. See "[*][2] Trouble Display".

No = The zone is normally a closed loop return to ground. The zone will be violated if the loop

No = The zone is normally a closed loop return to ground. The zone will be violated if the loop is open. <u>NOTE</u>: If any zone is programmed for Fire, they must still use EOL resistors.

CHANGE SYS MAS

Changeable System Grand Master Code

YES = System Grand Master Code can be changed by the end user via Grand Master Code.

NO = The System Grand Master Code can only be changed in installer programming.

POWER UP SHUNT Y Shunt Zones on Power Up?

YES = All zones are considered non-violated by the main control for the first minute that power has been applied to the system. This will allow time for the detectors to "settle" without causing false alarms.

NO = The zones are active upon power up.

AC TBL DISP

AC Trouble Displayed?

YES = The system will monitor the incoming AC power from the transformer.

NO = The system will not monitor the incoming AC power.

60 Hz LINE

N

N

Is the incoming AC Frequency 60 Hz?

YES = The incoming AC power from the transformer cycles at 60 Hz. The North American standard is 60 Hz.

NO = The incoming AC power cycles at 50 Hz.

XTAL TIMEBASE

YES = The timebase is the internal crystal oscillator.

NO = The timebase is the AC power input.

Timing for the clock in the PC4000 can come from two sources. The 60/50 Hz frequency of the AC power or a crystal oscillator on the circuit board. The default is to use the frequency of the incoming AC because it normally is very stable. However in some locations, the stability of the AC frequency is less reliable. If this is the case then the crystal oscillator should be used.

AC INHIBIT ARM

AC inhibits arming?

YES = When an AC trouble condition is present on the main panel, the system cannot be armed, except by auto-arm.

NO = Regardless of the presence of AC, the system can be armed.

DC INHIBIT ARM

DC inhibits arming?

YES = When a low battery condition is present on the main panel, the system cannot be armed, except by auto-arm.

NO = Regardless of the presence of a low battery condition, the system can be armed.

ALARMS DISP

Alarm displayed?

YES = When the partition is armed, any zones gone into alarm can be viewed by pressing the [<][>] keys.

NO = Show alarms after disarming only.

_	
	BYPASS DIS
Į	
	VIEW PARTN
	AUTOARM S
L	
ſ	BELL SHUT I
	BELL SHUT
1	
	FOLLOWS +

Bypass displayed?

YÉS = When the partition is armed, bypassed zones can be viewed by pressing the [<][>] keys.

NO = Shows bypassed zones when disarmed only, by pressing [*][1].

View partitions?

YES = Users are allowed to view the armed/disarmed status of other partitions. (See [*][6] User Functions.)

NO = Users can only view their own partition.

QUAWK

N

Y

YES= The bell output will activate for one second every ten seconds during the auto-arm pre-alert.

NO = The bell output will not activate during auto-arm pre-alert.

DOWN Y YES = The bell output will no longer activate for a zone that has reached the swinger shut down threshold. (See "SWINGER LIMIT." and "SWGR SHUT DOWN".)

NO = Every time a zone is violated it will reactivate the bell output.

ALARMS

YES = Enables all outputs programmed to follow zones, including PC4216s programmed as "Follow XX-XX", to also annunciate alarms when those zones are armed.

When the zone is disarmed the output follows the zone. That is, when the zone opens, the output activates and when the zone closes, the output deactivates.

When the zone is armed the output indicates alarm status. The output is not activated until the zone opens and then remains ON. When that partition is disarmed, the output remains ON to indicate which zone caused the alarm. The partition must then be armed and disarmed once more for the output to follow the zone again (assuming the alarm condition has been cleared).

NO = Disables the ability to latch alarm status. The output follows zone activity whether armed or disarmed.

Keypad Toggle Options

KEYPAD TOG OPT

Programming the operation of the 3 keypad emergency keys ([F], [A] and [P]). Toggle options are in the form of questions. Use the [*] key to toggle between Yes and No to enable or disable the feature. User the [<][>] keys to scroll through the options. Regardless of programming each key must be pressed for 2 seconds before the alarm will be activated.

[F] BELL Y [F] key activates the Bell Outputs?

YES= The bell output will activate when the [F] key is pressed.

NO = The bell output will not activate when the [F] key is pressed.

The bell output for the [F] key is any output (Bell, SW Aux or PGM) that is programmed for Fire and Burg, Inv Fire and Burg, Fire Only and Inv Fire Only.

[F] PULSE BELL

[F] key pulses the Bell Output?

YES= The bell output, if enabled, will pulse when the [F] key is pressed.

NO = The bell output, if enabled, will be steady when the [F] key is pressed.

The bell output for the [F] key is any output (Bell, SW Aux or PGM) that is programmed for Fire and Burg, Inv Fire and Burg, Fire Only and Inv Fire Only.

[F] BUZZER

The keypad beeps when the [F] key is pressed?

YES = The keypad will beep 3 times when the [F] key has been pressed for 2 seconds.

NO = The keypad will not sound when the [F] key is pressed.

[A] SIL BELL

The bell is silent when the [A] key is pressed?

YES= The bell output will not activate when the [A] key is pressed.

NO = The bell output will activate when the [A] key is pressed.

The bell output for the [A] key is any output (Bell, SW Aux or PGM) that is programmed for Fire and Burg, Inv Fire and Burg, Burg Only and Inv Burg Only.

[A] STDY BELL Y The bell is steady when the [A] key is pressed?

YES= The bell output, if enabled, will be steady when the [A] key is pressed.

NO = The bell output, if enabled, will pulse when the [A] key is pressed.

The bell output for the [A] key is any output (Bell, SW Aux or PGM) that is programmed for Fire and Burg, Inv Fire and Burg, Burg Only and Inv Burg Only.

[A] AUD BUZZ

The keypad beeps when the [A] key is pressed?

YES = The keypad will beep 3 times when the [A] key has been pressed for 2 seconds.

NO = The keypad will not sound when the [A] key is pressed.

[P] SIL BELL

[P] key activates the Bell Outputs?

YES= The bell output will not activate when the [P] key is pressed.

NO = The bell output will activate when the [P] key is pressed.

The bell output for the [P] key is any output (Bell, SW Aux or PGM) that is programmed for Fire and Burg, Inv Fire and Burg, Burg Only and Inv Burg Only.

[P] STDY BELL

The bell is steady when the [P] key is pressed?

YES = The bell output, if enabled, will be steady when the [P] key is pressed.

NO = The bell output, if enabled, will pulse when the [P] key is pressed.

The bell output for the [P] key is any output (Bell, SW Aux or PGM) that is programmed for Fire and Burg, Inv Fire and Burg, Burg Only and Inv Burg Only.

[P] SILENT BUZ

The keypad does not beep when the [P] key is pressed?

YES= The keypad will not sound when the [P] key is pressed.

NO = The keypad will beep 3 times when the [P] key has been pressed for 2 seconds.

Keypad Lockout Options

KYPD LOCKOUT OPT (2)

Keypad Lockout Options

This section contains programming for the keypad lockout feature. After a programmed number of incorrect attempts to enter an access or installer's code the keypad will lockout, preventing the user from performing any function that requires a code to be entered for a programmable amount of time. All other keypad functions not requiring an access code may still be performed. See "KYPD LOCKOUT" under "PAR TOGGLES" to enable the keypad lockout feature on a partition.

TOTAL BAD CODES

Enter the number of incorrect code entries (from 000 to 255) required to activate keypad lockout if the option is enabled. See "PAR TOGGLES", "KYPD LOCKOUT" to enable the keypad lockout feature on a partition.

LOCKOUT DURATION (1)

This section determines the number of minutes the keypad lockout will activate for. Enter the duration of the keypad lockout. Valid entries are from 000 to 255.

LOCKOUT REP CODE (2)

Lockout Reporting Codes. If keypad lockout occurs, a reporting code can be sent to the monitoring station. To enable this feature program a reporting code in this section.

System Times

SYSTEM TIMES (3)

They are system clock and times relevant to the whole system.

SYSTEM CLOCK (0)

Programming the present system date and time.

SET DATE (0)

Three 2-digit entries are required. The date is entered by month: day: year.

SET 24HR TIME (1)

Two 2-digit entries are required. The time is entered by hour: minute in military time (HH:MM).

ZONE RESPONSE (1)

The zone loop response time is the length of time $(002 - 255 \times 100 \text{ ms})$ a zone must be violated before it is detected. (100 ms = one tenth of a second.) Minimum zone loop response time is 200 ms. The factory default setting is 005 (500 ms).

BELL CUTOFF (2)

Program the amount of time (from 000 to 255 minutes) the bell output will activate when an alarm occurs. The factory default setting is 004 (4 minutes). Bell Cutoff is for any output (Bell, SW Aux or PGM) that is programmed for Fire and Burg, Inv Fire and Burg, Burg Only, Inv Burg Only, Fire Only, and Inv Fire Only.

DOWNLOAD SECTION

DLS SECTION (04)

Downloading section. Programming any options related to downloading.

Download Toggles

DLS TOGGLES (0)

Downloading Toggle Options. Toggle options are in the form of questions. Use the [*] key to toggle between Yes and No to enable or disable the feature. Use the [<][>] keys to scroll through the options.

RING DETECT

YES= The panel will answer after the programmed number of rings.

NO = Ring detect disabled. The only way downloading can occur is by using either the "USER CALL UP" feature or the "PERIODIC CALLUP" feature. Ring detect can be turned on by the end user for 60 minutes if the "USER ENABLE DLS" option is enabled.

USER CALL UP

YES = The user can cause the panel to call a remote computer by entering the [*][6][Master Code][7] user callup command. (See also "PHONE NUMBER" and "PANEL ID CODE" in the DLS options.)

NO = The feature is disabled.

DOUBLE CALL N

YES= If the panel detects 1 or 2 rings on the first call and then is called again within a variable time of 000 to 255 seconds (programmable - see "2 CALL TIMER"), the panel will answer the second call on the first ring. This is useful for bypassing an answering machine on the same line as the panel.

NO = The panel will only answer after the programmed number of rings is reached. See "# OF RINGS".

DLS CALLBACK N

YES = Callback is enabled. After connection to the panel both the computer and the panel will hang up. The computer will then wait for the panel to call. If there is more than one downloading computer, callback should be disabled.

NO = Callback is disabled. The downloading computer will have immediate access to the control panel once accepted as valid.

PERIODIC DLS

YES= Periodic Downloading is enabled. Periodic downloading is used to allow the computer to execute batch files. The computer must be waiting for a call for this feature to be useable. See "Periodic Callup" for programming the time of day and the number of days in between periodic downloads.

NO = Periodic Downloading disabled.

USER ENABS DLS

User Enables Downloading?

YES = The end user may enable ring detect for 60 minutes to allow a computer to access the control panel. If the "RING DETECT" option has been enabled, this option is overridden.

NO = Option disabled.

DLS Options

PERIODIC CALLUP (1)

Programming the time and number of days between periodic downloads. (See "Periodic DLS" for enabling Periodic Downloading.)

SET CYCLE DAYS
(0)

Program the number of days (from 000 to 255 days) between periodic downloads.

SET 24HR TIME

(2)

Program, in military time, the time of day the panel will call the computer for periodic downloading.

PHONE NUMBER

Enter the telephone number for computer if User Call Up, Periodic DLS, or DLS Callback is enabled. See "PGM TEL NUMBER" for entering a telephone number and options when programming the phone number.

PANEL ID CODE
(3)

Panel Identifier Code. This four digit code will allow the computer to identify the panel that is calling. It must be programmed differently for every panel if User Call Up, Periodic DLS or DLS Callback is used.

ACCESS CODE (4)

This four digit code must be programmed the same as the computers. If the code is different the panel will NOT allow any uploading or downloading to take place. It is used to help ensure the security of the system.

2 CALL TIMER (5)

This is the maximum allowable time in seconds between two phone calls when the "Double Call" option has been enabled. Valid entries are between 000 and 255 seconds. (See "Double Call" for enabling the double call feature.)

OF RINGS (6)

This is the number of consecutive rings the panel must detect before answering the call. (See "Ring Detect" or "User Enabs DLS" for enabling ring detect.) Valid entries are between 001 and 255 rings.

Download Report Codes

DLS REPORT CODES
(7)

A reporting code can be sent to the monitoring station when downloading begins and when it completes. "DLS Callback" must be enabled for the lead in reporting code to operate.

LEAD IN REPCODE (0)

Downloading Lead In Reporting Code.

This reporting code is sent to the monitoring station after the computer has called the panel and is waiting for the panel to call back. The panel will first call the monitoring station, send this reporting code, and then call the downloading computer.

Do NOT program this reporting code if "DLS Callback" is not enabled.

LEAD OUT REPCODE (1)

Downloading Lead Out Reporting Code.

This reporting code is sent to monitoring station after the panel has finished downloading with the computer.

COMMUNICATOR SECTION

COMMUNICATOR (05)

All options concerning communications can be programmed, including phone numbers, reporting codes, account numbers and communicator options.

Main Items - Phone #'s/Comm Format/Dialer Direction

MAIN ITEMS (0)

Handling the phone numbers of monitoring stations or remote areas the panel communicates with.

1ST NUMBER (0)

Phone Number 1. The PC4000 can call up to three different phone numbers when reporting any event to a monitoring station. The second and third number can be used as backups if the first or second fail.

2ND NUMBER (1)

2nd Number can report any events programmed if set in the dialer directions and can back up the 1st Number.

3RD NUMBER (2)

3rd Number can report any events programmed if set in the dialer directions. It can also be used to back up the first and/or second phone number.

PGM TEL NUMBER (0)

Enter the communicator telephone number the way you would dial it on a telephone. The total number of digits including dial tone searches and pauses must not exceed 31. Press the [*] key to enter the telephone entry options menu. A "D" for dial tone search is already programmed as the first digit.

[0] Save and Exit

[1] Dial tone [2] Pause 2 Second

[2] Pause 2 Seconds [3] Pause 4 Seconds

[4] DTMF[*]

[5] DTMF[#]

- [0] Save and Exit can be selected for the telephone number to be stored into the panel's memory, or simply press [#] when finished entering the phone number.
- [1] Dial tone will add a dial tone search to the telephone number, which will be represented by a 'D' on the display. When the panel does a dial tone search, it looks for dial tone before dialling the programmed telephone number.
- [2] Pause 2 Seconds will add a two second pause to the dialing sequence, which will be represented by the letter 'A' on the display.
- [3] Pause 4 Seconds will add a four second pause to the dialing sequence, which will be represented by the letter 'E' on the display.
- [4] DTMF [*] will input an asterisk, represented by a 'B' on the display. The dialer will output the same frequencies as a touch tone phone would if the '*' key were pressed. (Frequently required to disable call waiting.)
- [5] DTMF [#] will add a '#' to the telephone number, represented by the letter 'C' on the display. The dialer will output the same frequencies as a touch tone phone when the '#' key is pressed. (In some instances is used to disable call waiting.)

COMMS FORMAT

(1)

There are 19 formats in the PC4000 for communicating with the monitoring station. The system must be programmed to use the same communications format as the receiver at the monitoring station.

- (00) 10 Bps 1400 Silent Knight, Ademco Slow
- (01) 20 Bps 2300 Sescoa, Franklin, DCI, Vertex
- (02) 20 Bps 1400 Silent Knight Fast
- (03) 40 Bps 2300 Radionics
- (04) 40 Bps 1400 Radionics
- (05) 40 Bps 2300 P Radionics with Parity
- (06) 40 Bps 1400 P Radionics with Parity
- (07) 10 Bps 1400 X Silent Knight, Ademco Slow extended
- (08) 20 Bps 2300 X Sescoa, Franklin, DCI, Vertex extended
- (09) 20 Bps 1400 X Silent Knight, Ademco Fast extended
- (10) 40 Bps 2300 X Radionics Extended
- (11) 40 Bps 1400 X Radionics Extended
- (12) 40 Bps 2300 XP Radionics Extended with Parity
- (13) 40 Bps 1400 XP Radionics Extended with Parity
- (14) SIA Fsk Format
- (15) Sescoa Super Speed
- (16) Sescoa Super Speed ID
- (17) DTMF Contact ID
- (18) 4/3 DTMF Format Surgard

10, 20 and 40 BPS Formats

10 Bits Per Second is the standard slow format used on Silent Knight and Ademco receivers.

Data = 1900 Hz Kissoff = 1400 Hz Speed = 10 Baud

20 Bits Per Second is the standard fast format used on DCI, Franklin, Sescoa and Vertex receivers.

Data = 1800 Hz Kissoff = 1400/2300 Hz Speed = 20 Baud

40 Bits Per Second is the standard format used on Radionics receivers.

Data = 1800 Hz Kissoff = 1400/2300 Hz Speed = 40 Baud

These formats will send an account code to identify which customer is sending the alarm, and a reporting code to identify the type of alarm. Depending on the receiver, the account code must be either 3 or 4 digits, and the reporting code must be either 1 or 2 digits. If the account code needs to be only 3 digits, program the 'System ID Code' and each partition's 'Customer ID Code' with 3 digits, followed by a '0'. If you wish to send a zero in the account code, program it with a HEX A. For example, if you wish to send 103 as your account code, program the System or Customer ID code with '1A30'. If the reporting code needs to only be 1 digit, program the reporting codes with one digit followed by a '0'. For example, to send a '3', program '30' into the reporting codes. To send a zero, program HEX A into the reporting code. For example, to send 30, enter 3A.

YR

Radionics Format

For conventional 3/1 Radionics format the communications mode should be set to either (10) or (11), the 40 Bps extended format. The following guidelines have been provided to help in configuring the PC4000 for Radionics format.

- 1. The system ID code and customer ID codes must be only 3 digits with a zero making up the 4th digit (i.e. program 1230 for ID code 123.)
- 2. The zone alarm reporting codes must all be single digit numerical codes with no extended 2nd round being sent. The zero in the 2nd digit of the reporting code tells the PC4000 not to send an extended code.
- 3. All other non-alarm reporting codes must be set up to send an extended 2nd round. The 1st digit of the reporting code is used to identify the event while the 2nd or extended digit is used to associate the event with a particular item. (i.e. A reporting code of E3 means restore zone 3 - E for restore and 3 for zone 3.)
- 4. The following is a list of 1st digit identifiers that should be used with the Radionics format.

```
Restorals "E" Example "E3" = Restore zone 3
Openings "B" Example "B2" = Opening by User 2
Closings "C" Example "C4" = Closing by User 4
Troubles "F" Example "F5" = Trouble from Source 5
Misc "D" Example "D1" = Partial Closing
```

SIA 1986 Format

The system ID codes and the customer ID codes must be four decimal digits in length. The reporting codes must be 2 digits.

Do not program the keypad lockout reporting code or the printer buffer nearly full reporting code.

The SIA format will transmit a 4 digit account code, a 2 digit identifier code and a 2 digit reporting code. The 2 digit identifier is preprogrammed by the PC4000. The 2 digit reporting code is programmed by the installer with any hex number from 01 to FE.

	Preprogrammed Identifiers
Zone Alarms 1 to 128 - Fire	FA
Zone Alarms 1 to 128 - All others	BA
Zone Troubles 1 to 128	FT
Zone Restorals 1 to 128 - Fire	FR
Zone Restorals 1 to 128 - All others	BR
Module Tamper Alarm	TA
Module Tamper Restoral	TR
Keypad [F] Key Alarm	FA
Keypad [A] Key Alarm	MA
Keypad [P] Key Alarm	PA
Keypad [F] Key Restore	FR
Keypad [A] Key Restore	MR
Keypad [P] Key Restore	PR
Closing Access Codes 1 to 128	CL
Quick Arm Closing Code Partial Closing Code	CL
Automatic Arming Closing	CG
Opening Access Codes 1 to 128	CA OP
Opening After Alarm	OF OR
System Battery Trouble Alarm	YT
System AC Trouble Alarm	ÄT
System Bell Trouble Alarm	ΰť
System AUX Supply Trouble Alarm	ŬŤ

System Battery Trouble Restoral

	Preprogrammed Identifiers
System AC Trouble Restoral	AR
System Bell Trouble Restoral	AR
System Bell Trouble Restoral	* UR
System Aux Supply Trouble Restoral	UR
COMBUS Trouble Alarm	UT
COMBUS Trouble Restoral	UR
System TLM REstoral	LR
System FTC REstoral	UR
Downloading Lead In	RB
Downloading Lead Out	RS
Periodic Test	RP
System Test	RX
4204 Battery Trouble Alarm	ΥT
4204 AC Trouble Alarm	AT
4204 Aux Supply Trouble Alarm	UT
4204 Battery Trouble Restore	YR
4204 AC Trouble Restore	AR
4204 Aux Supply Trouble Restore	UR
2nd Master Close	CL
2nd Master Open	OP

Sescoa Super Speed and Sescoa Super Speed ID

The system ID code and customer ID codes must be four decimal digits in length and in the range of 0001 to 3374.

The reporting codes must be 2 digits in length and programmed as follows. All zero's must be replaced with 'A's. For example, to send 20, the PC4000 must be programmed with a 2A. (To disable a reporting code, leave as FF)

Do not program the Downloading Lead In reporting code, the Downloading Lead Out reporting code, the Installer Lead In reporting code, the Installer Lead Out Reporting Code, the RS-232 Trouble Alarm Rep Code or the RS-232 Trouble Restoral Rep Code.

	<u>Code</u>		<u>Code</u>
Zone Alarms 1 to 128	A1 to 9A	System Aux Supply Trouble Alarm	13
Zone Troubles 1 to 128	91	System Battery Trouble Restoral	E1
Zone Restoral 1 to 128	A1 to 9A	System AC Trouble Restoral	E1
Module Tamper Alarms	92	System Bell Trouble Restoral	F1
Module Tamper Restorals	92	System Aux Supply Trouble Restoral	13
Keypad [F] key Alarm	93	Combus Trouble Alarm	97
Keypad [A] key Alarm	94	Combus Trouble Restore	97
Keypad [P] key Alarm	95	System TLM Restoral	EE
Keypad [F] key Restoral	93	System FTC Restoral	EE
Keypad [A] key Restoral	94	Periodic Test	1C
Keypad [P] key Restoral	95	Buffer Near Full	98
Closing Reporting Codes 1 to 128	CA	System Test	1C
Quick Arm Closing Code	CA	4204 Battery Trouble Alarm	E1
Partial Closing Code	C1	4204 AC Trouble Alarm	E 1
Automatic Arming Closing	CA	4204 Aux Supply Trouble Alarm	13
Keypad Lockout Code	96	4204 Battery Trouble Restore	E1
Opening Reporting Code 1 to 128	BA	4204 AC Trouble Restore	E1
Opening After Alarm Code	BA	4204 Aux Supply Trouble Restore	13
System Battery Trouble Alarm	E1	2nd Master Close	CA
System AC Trouble Alarm	E1	2nd Master Open	BA
System Bell Trouble Alarm	F1	·	

Contact ID

The System ID code and 8 Customer ID codes must be 4 decimal digits. The reporting codes must be 2 digits and programmed as follows. Do not program the Opening After Alarm reporting code, Buffer nearly full reporting code, Installer Lead In and Installer Lead Out Reporting Codes.

Zone Alarms and Restorals can be programmed to send different messages to the monitoring station. For example, if the Reporting code for zone 5 is programmed with '34', the monitoring station will receive the message '*BURG* - ENTRY/EXIT - 5', where 5 is the number of the zone which has been activated. Different messages to be sent to the monitoring station are:

<u>Code</u>	Message as seen on receiver
Fire Alarms	
1A	*FIRE * - FIRE ALARM - #
11	*FIRE* - SMOKE DETECTOR - #
12	*FIRE* - COMBUSTION - #
13	*FIRE* - WATER FLOW - #
14	*FIRE* - HEAT SENSOR - #
15	*FIRE* - PULL STATION - #
16	*FIRE* - DUCT STATION - #
17	*FIRE* - FLAME SENSOR - #

<u>Coae</u>	<u>Message as seen on receiver</u>
Panic Alarms	
2A	*PANIC * - PANIC - #
21	*PANIC * - DURESS - #
22	*PANIC * - SILENT PANIC - #
23	*PANIC * - AUDIBLE PANIC - #

Burglar Alarms

3A	*BURG * - BURGLARY - #
31	*BURG * - PERIMETER - #
32	*BURG * - INTERIOR - #
33	*BURG * - 24 HOUR - #
34	*BURG * - ENTRY/EXIT - #
35	*BURG * - DAY/NIGHT - #
36	*BURG * - OUTDOOR - #
37	*BURG * - TAMPER - #

General Alarms

4A	*ALARM * - GENERAL ALARM - #
44	*ALARM * - SENSOR TAMPER - #

24 Hour Non-Burglary

5A	*ALARM * - 24 HR. NON-BURG - #
51	*ALARM * - GAS DETECTED - #
52	*ALARM* - REFRIGERATION - #
53	*ALARM* - HEATING SYSTEM - #
54	*ALARM* - WATER LEAKAGE - #
55	*ALARM* - FOIL BREAK - #
56	*ALARM* - DAY ZONE - #
57	*ALARM* - LOW GAS LEVEL - #
58	*ALARM* - HIGH TEMPERATURE - #
59	*ALARM* - LOW TEMPERATURE - #
61	*ALARM* - AIR FLOW - #

The rest of the reporting codes must be programmed as follows or left as FF to be disabled.

Zone Troubles Module Tamper Alarm Module Tamper Restoral Keypad [F] key Alarm Keypad [A] key Alarm Keypad [P] key Alarm Keypad [F] key Restoral Keypad [A] key Restoral Keypad [P] key Restoral Keypad [P] key Restoral Access Codes 1 to 128 Closing Quick Arm Closing Partial Closing Auto Arm Closing Keypad Lockout Access Codes 1 to 128 Opening System Battery Trouble Alarm System AC Trouble Alarm System Bell Trouble Alarm System Aux Supply Trouble Alarm	73 45 45 15 AA 15 AA 21 AA A1 A2 A1 A2 A1 A2 A1 A2 A3 A3 A3 A4 A3 A4 A4 A4 A4 A4 A4 A4 A4 A4 A4 A4 A4 A4	System Bell Trouble Restoral System Aux Supply Trouble Restoral Combus Trouble Alarm Combus Trouble Restore TLM Restoral FTC Restoral Periodic Test Transmission System Test Downloading Lead In Downloading Lead Out 4204 Battery Trouble Alarm 4204 AC Trouble Alarm 4204 Aux Supply Trouble Alarm 4204 AC Trouble Restoral 4204 AC Trouble Restoral 4204 Aux Supply Trouble Restoral 85-232 Trouble Alarm RS-232 Trouble Restoral 2nd Master Close	21 AA 3A 51 54 A1 11 3A 3A 3A 3A 3A 3A 3A 3A 3A 3A 3A 3A 3A
	21 AA A2		
System AC Trouble Restoral	A1		- • •

Surgard 4/3 DTMF Format

This is a 7 digit format sent by DTMF tones and uses a 2300 Hz handshake. Each round pair represents a single event as follows:

SSSSXCC

where, SSSS = 4 digit account code

x = Event descriptor, preprogrammed in the PC4000.

CC = 2 digit reporting code programmed by the installer.

The reporting codes can be programmed with any hex number from 01 to FE (00 or FF will disable the reporting code).

Note that both "0" and "A" will both represent and be received as "0".

Normally the Zone Alarm reporting codes will transmit a "3" as the event descriptor for most zone types, to indicate a burglary alarm. However, if the zone type is a Standard Fire Zone, Delayed Fire Zone or Auto Verify Fire Zone, the PC4000 will transmit a "1" as the event descriptor for these zone types to indicate a fire alarm is being transmitted.

For zones programmed as momentary keyswitch arming or maintained keyswitch arming, the PC4000 will transmit a "4" and the reporting code programmed in the "Zone Alarm" section to indicate a closing (arming) of a partition.

In the Zone Restore reporting codes section, a zone will normally transmit a "9" as the event descriptor for burglary or fire zones to indicate the zone has been restored. However, if the zone has been programmed as a momentary or maintained keyswitch arming zone, when the zone is used to disarm a partition it will transmit a "5" and the reporting code programmed in the zone restoral section to indicate an opening (disarming) of a partition.

PC4000 Reporting Code Section	Event Descriptor
Zone Alarms 1 to 128 (Fire Alarms)	1
Zone Alarms 1 to 128 (Keyswitch Arming)	4
Zone Alarms 1 to 128 (All others)	3
Zone Troubles 1 to 128	6
Zone Restorals 1 to 128 (Keyswitch Disarming)	5
Zone Restorals 1 to 128 (All others)	9
Module Tamper Alarm	ř
Module Tamper Restoral	9
Keypad [F] key Alarm	1
Keypad [A] key Alarm	
Keypad [P] key Alarm	,
Keypad [F] key Restore	7 2 9
Keypad [A] key Restore	9
Keypad [A] key Restore	9
Closing Access Codes 1 to 128	4
Quick Arm Closing Code	4
Partial Closing Code	D
Automatic Arming Closing	4
Keypad Lockout Code	F
Opening Access Codes 1 to 128	5
Opening After Alarm	F
System Battery Trouble Alarm	6
System AC Trouble Alarm	6
System Bell Trouble Alarm	6
System Aux Supply Trouble Alarm	6
System Battery Trouble Restoral	9
System AC Trouble Restoral	9
System Bell Trouble Restoral	9
System Aux Supply Trouble Restoral	9
COMBUS Trouble Alarm	6
COMBUS Trouble Restoral	9
System TLM Restoral	9
System FTC Restoral	9
Downloading Lead In	F
Downloading Lead Out	, F
Periodic Test	0
Buffer Near Full	F
System Test	0
4204 Battery Trouble Alarm	6
4204 AC Trouble Alarm	
4204 Aux Supply Trouble Alarm	6 6
4204 Battery Trouble Restore	9
4204 AC Trouble Restore	9
	9
4204 Aux Supply Trouble Restore	
2nd Master Close	4
2nd Master Open	5

DIALER DIRECTION (2)

This section determines which reporting codes are sent to the selected phone number. All reporting codes can be programmed to communicate to any or all of the phone numbers. By default, all reporting codes are sent to phone number 1 only. See "Comms Toggles" for using phone numbers 2 and 3 as backup phone numbers.

ALARM/RESTORE

YES= Alarm and Restoral reporting codes are transmitted to the monitoring station by the selected phone number.

NO = Alarm and Restoral reporting codes are not sent.

The groups of reporting codes, those are Alarms and Restorals, are:

■ Zone Alarms
■ Zone Restorals

Module Tamper Restorals

■ Zone Troubles ■ Module Tamper Alarms ■ [F][A][P] keys

See "Reporting Codes" for a description of these groups of reporting codes.

OPEN/CLOSE

YES= Opening and Closing reporting codes are transmitted to the monitoring station by the selected phone number.

NO = Opening and Closing reporting codes are not sent.

The groups of reporting codes, those are Openings and Closings, are:

■ Closings by Access Codes 001 to 128

Openings by Access Codes 001 to 128

■ Misc Closing Reporting Codes

Misc Opening Reporting Codes

■ 2nd Master Close

2nd Master Open

See "Reporting Codes" for a description of these groups of reporting codes.

ALL OTHERS

YES= All other reporting codes are sent to the selected phone number NO = All other codes are not sent.

"All other" refer to every other reporting code that is not an alarm or restoral, opening or closing. "All other" groups of reporting codes are:

System Maintenance Reporting Codes

■ 4400 Module Maintenance Reporting Codes

■ 4204 Module Maintenance Reporting codes

See "Reporting Codes" for a description of these groups of reporting codes.

SYSTEM ID CODE

(3)

Υ

Y

When a reporting code is sent to the monitoring station, a four digit account code is also sent to identify the user. Each partition has its own account code (See "Customer ID Code"). But for reporting codes that do not pertain to a particular partition, such as AC line trouble etc., the system ID code is sent to identify the panel/user. The reporting code groups that send the system ID code are:

- Module Tamper Alarms
- Module Tamper Restorals
- System Maintenance Reporting Codes
- 4204 Module Maintenance Reporting Codes
- 4400 Module Maintenance Reporting Codes

See "Reporting Codes" for a description of these groups of reporting codes. See "Comms Formats" for a description of communication formats and if there are limitations set on what the System and Partition account codes may be programmed as.

Communicator Toggles

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	80	133	200	100								""

Selecting options relevant to the communications of the panel. Toggle options given in the form of a question. Use the [*] key to toggle between [Y]es and [N]o to enable or disable the feature. Use the [<][>] keys to scroll through the options.

COMMS ENABLED

Communications are enabled?

YES = The communications are enabled.

NO = The communications are disabled. No reporting codes will be transmitted to the monitoring station. Note that downloading can still be accomplished with the communicator disabled.

DTMF DIALING Y

YES= The dialer will use DTMF dialing.

The PC4000 can switch to pulse dialing after a programmed number of attempts at DTMF dialing have failed. See "DTMF Attempts".

NO = The dialer will use pulse dialing.

RESTORE ON BTO

Restore on Bell Time Out?

YES = The panel will send the restoral reporting code when both the zone is restored and the bell has timed out (see "BELL CUTOFF" for the time the bell will time out). Note that if the zone is not restored, the restoral will be sent when the partition is disarmed. DO NOT enable this feature if "REST ON DISARM" is enabled.

NO = The panel will send the restoral reporting code when the zone is restored, or if "REST ON DISARM" is enabled, the restoral is sent when the partition is disarmed. (See "REST ON DISARM".)

REST ON DISARM

N

Restore on Disarming?

YES = The panel will send a restoral when the partition has been disarmed. The panel will not send another alarm transmission for the zone until the partition is disarmed. DO NOT enable "RESTORE ON BTO" if this feature is enabled. (See "RESTORE ON BTO".)

NO = The panel will send the restoral immediately when the zone is restored, or if "RESTORE ON BTO" is enabled, the restoral is sent when the bell times out. (See "RESTORE ON BTO".)

SHUT DOWN 24HRS

Swinger Shutdown reset every 24 hours?

YES = The swinger shutdown counters will be reset everyday at midnight. The swinger shutdown counters keep track of how many alarms have occurred on each zone before entering shutdown, in which the zones will no longer cause an alarm. See "SWINGER LIMIT" and "SWGR SHUT DOWN" to enable swinger shutdown.

NO = The swinger shutdown counters will be reset when the partition is armed.

PC	ID		
			N

Partial Closings Identified?

YES = The panel will identify all manually bypassed zones when the partition is armed. The bypassed zones are identified by sending the zone alarm reporting codes for the bypassed zones between the partial closing reporting code and the closing code. The partial closing reporting code must be programmed for this feature to work.

See "MISC CLOSING" to program the partial closing reporting code.

See "PC ID RESTORES" to use zone restoral reporting codes instead of zone alarm reporting codes to identify the bypassed zones.

NO = The panel will only send a partial closing reporting code to tell the monitoring station that zones were bypassed when the partition was armed.

PC ON AUTO ARM

Partial Closings on Auto Arming?

YES= The panel will send the partial closing reporting code to the monitoring station when a zone is force armed (temporarily bypassed) by an auto arm. If the option "PC ID" is enabled, the force armed zone will be identified by sending its zone alarm reporting code after the partial closing reporting code. See "FORCE ARM" for an explanation of force arming.

NO = No partial closing reporting code will be sent when zones are force armed during auto arming.

PC ID RESTORES

Ν

Y

N

N

N

Partial Closings Identified send Zone Restorals?

YES= The zone restoral reporting codes are transmitted to the monitoring station instead of the zone alarm reporting codes to identify the manually bypassed zones and force armed zones on auto arm. See "PC ID".

NO = The zone alarm reporting codes are used to identify the bypassed zones.

TLM ENABLED

Telephone Line Monitoring Enabled?

YES= The system tests for telephone line faults. If a fault is detected, the trouble is annunciated on the keypads. A telephone line trouble is generated when the line voltage drops below 3 volts for more than 30 seconds.

NO = Does not test for Telephone Line faults.

TLM AUD BELL

Telephone Line Monitoring has Audible Bell Alarm?

YES= If there is a Telephone Line trouble and a partition is armed, the bell outputs for the armed partition will be activated, along with the keypad annunciation. The bell outputs are any outputs (Bell, SW Aux or PGM) programmed for "FIRE AND BURG", "INV FIRE/BURG", "BURG ONLY" and "INV BURG ONLY".

NO = If there is a Telephone Line trouble, the panel will annunciate the trouble at the keypad only.

FTC AUD BELL

Should a Failure to Communicate sound the Bells?

YES= If a partition is armed, the bell outputs for the armed partition will sound when the PC4000 fails to communicate with the monitoring station.

NO = A failure to communicate will not cause the PC4000 to sound the bells.

TLM + ALARM AUD N

Should a Transmission Line Monitoring trouble and an alarm occurring cause the bells to sound?

YES = If a partition is armed, the bell outputs for the armed partition will sound when the PC4000 has both a TLM fault and an alarm occurring.

NO = The TLM and Alarm Audible Function is disabled.

RINGBACK

Enable Ringback?

YES= The Ringback option is enabled.

A successful communication to the monitoring station will be annunciated by the keypads beeping 5 times. If the communications are for reporting an alarm for a partition, only the keypads belonging to that partition will beep. If the reporting code was for a system alarm, all of the keypads will beep.

Note that if communications are being sent to more than one telephone number, communications to both numbers must be completed before the ringback will occur.

NO = The Ringback option is disabled.

PERIODIC TX ?

Periodic Test Transmission?

YES = The panel will send a test transmission to the monitoring station. See "TEST CODE TX" for programming time and frequency the code is sent. See "SYSTEM MAINT" for programming the reporting code.

NO = The panel will not send a test transmission.

EUROPE DIAL

European Dialling?

YES = When the communicator is pulse dialling, the contact closure to the phone line is made in a 67/33 make/break ratio. This is the European standard method of dialling.

NO = The contact closure to the phone line is made in a 60/40 make/break ratio. This is the American/Canadian standard method of dialling.

DEFAULT DIAL

N

N

N

Dial if No Dial Tone Present?

YES = If the first attempt by the panel to call the monitoring station fails, on every subsequent attempt the panel will dial regardless of the presence of dial tone.

NO = If a 'D' for dial tone search precedes the phone number, the panel will not dial if dial tone is not present. See "PGM TEL NUMBER" for programming the telephone numbers with dial tone search.

PH 1-2 BACKUP

Phone #2 back up Phone #1?

YES = The PC4000 will send the reporting code to the 2nd phone number if the 1st phone number fails to communicate with the monitoring station after 10 attempts. Dialer directions for the 2nd phone number should be disabled (set to "N") if the 2nd number is used for backup only, otherwise the reporting codes will be sent to the 2nd phone number whether the 1st number failed or not.

NO = Disabled. The 2nd phone number does NOT back up the 1st phone number.

PH 1-3 BACKUP

Phone #3 back up Phone #1?

YES = The PC4000 will send the reporting code to the 3rd phone number if the 1st phone number fails to communicate with the monitoring station after 10 attempts. Dialer directions for the 3rd phone number should be disabled (set to "N") if the 3rd number is used for backup only, otherwise the reporting codes will be sent to the 3rd phone number whether the 1st number failed or not.

If "PH 1-2 BACKUP" is enabled when 1st phone number fails, the reporting code will be

sent to both the 2nd and 3rd phone number.

NO = Disabled. The 3rd phone number does NOT back up the 1st phone number.

PH 2-3 BACKUP

Phone #3 back up Phone #2?

YES= The PC4000 will send the reporting code to the 3rd phone number if the 2nd phone number fails to communicate with the monitoring station after 10 attempts. Dialer directions for the 3rd phone number should be disabled (set to "N") if the 3rd number is used for backup only, otherwise the reporting codes will be sent to the 3rd phone number whether the 2nd number failed or not.

If "PH 1-2 BACKUP" is enabled when 1st phone number fails, the reporting code will be sent to the 2nd phone number. If the 2nd phone number fails, the reporting code will then be sent to the 3rd phone number.

NO = Disabled. The 3rd phone number does NOT back up the 2nd phone number.

Communicator Miscellaneous

COMMS MISC (2)

Program other options relating to the communications of the panel including DTMF attempts, swinger shutdown level, AC failure and zone transmission delay.

DTMF ATTEMPTS (0)

The number of attempts using DTMF dialing (e.g. a touch tone phone) before switching to pulse dialing (e.g. a rotary phone). Enter a three digit number from 000 to 010 attempts. Note that the PC4000 will only call a number 10 times before a Failure to Communicate trouble occurs. By default, the panel will have 2 attempts of DTMF dialing before pulse dialing. If "DTMF DIALING" is not enabled, the panel will only do pulse dialing.

SWINGER LIMIT (1)

Enter the number of alarm/restore pairs the panel will communicate per zone before communications for that zone shut down. The bell will also shut down if so programmed (see "BELL SHUTDOWN"). Valid entries are from 000 to 255. Entering 000 in this section will disable swinger shutdown. See "SWGR SHUT DOWN" to enable swinger shut down on each zone.

AC FAIL TX DELAY (2)

Enter the time in minutes, AC trouble on the main panel must be present before the AC trouble reporting code will be communicated. Valid entries are from 000 to 255. This delay does not include PC4204 AC troubles, which are communicated immediately.

ZONE TX DELAY
(3)

Enter the time in seconds, the panel will delay communication of an alarm zone. Valid entries are from 000 to 255. If the panel is disarmed within the programmed time, no alarm communication will be sent. See "TX DELAY?" under zone toggle options to enable the transmission delay on each zone.

Test Code Transmission

(4)

TEST CODE TX

Test Code Transmission. Programs items regarding the test transmission of the panel. To send a test transmission, the time of day, the number of days between test transmissions and the test transmission reporting codes must be programmed. Also the "PERIODIC TX?" comms toggle options must be enabled.

SET CYCLE DAYS
(0)

Enter the number of days between test code communications. Valid entries are from 001 to 255.

SET 24HR TIME (1) Enter the time of day the test code will be communicated. Times are entered using military format HH:MM.

REPORTING CODE (2)

Enter the test transmission reporting code. This is the same reporting code as the "Periodic Test" reporting code programmed in the "System Maint" section.

Reporting Codes

REPORTING CODES
(3)

Reporting codes are 2 digit codes which are sent to the receiver at the monitoring station along with the customer ID code for each transmission. They identify the type of alarm to the receiver (See "Comms Format"). Once you have selected which group of reporting codes to program, use the arrow keys to toggle through the reporting codes, and enter in a 2 digit number. If you are sending a 3/1 or 4/1 format where the reporting code needs to only be one digit, program the one digit followed by a "0". For example, if you want to send a "5" to the monitoring station, program "50" into the reporting code. To disable a reporting code, program it with FF (default setting). Pressing the [*] key when entering the code will call up a menu for hex digit entry and to "Save and Exit" from the Reporting Codes menu.

NOTE: When programming Hex digits, the second * is no longer used as in previous panel versions. (i.e. PC3000 and PC2550). E.g. in the PC4000 * 1 * 2 is AB

#1 2 is A2

ZONE ALARM (00)

Alarm Reporting Codes for Zones 001 to 128.

ZONE TROUBLE (01)

Zone Trouble Reporting Codes for zones 001 to 128. The only types of zones that will cause a zone trouble are the standard fire zones, the delayed fire zones and the auto verifying fire zones.

ZONE RESTORE (02)

Restoral Reporting Codes for Zones 001 to 128. See Restore on BTO and Rest on Disarm for when the zone restoral will be sent to the monitoring station.

MOD TAMP ALARM (03) Reporting Codes for Tamper Alarms on Modules. All modules have a tamper zone, if the tamper is activated.

LCD4500 KEYPADS (0)

There are 16 keypad tamper alarm reporting codes, one for each keypad that can be enrolled onto the system.

PC4400 RS-232 (1) There is 1 RS-232 tamper alarm reporting code.

PC41XX ZONE EXP (2)

PC4216 16 O/P

(3)

There are 9 module tamper alarm reporting codes, one for each 4216 module that can be enrolled onto the system.

PC4204 4 O/P

There are 16 module tamper alarm reporting codes, one for each 4204 that can be enrolled onto the system.

MOD TAMP RESTORE (04)

(4)

Reporting Codes for the restoral of a modules tamper.

LCD4500 KEYPADS (0)

There are 16 keypad tamper restoral reporting codes, one for each keypad that can be enrolled onto the system.

PC4400 RS-232 (1)

There is 1 RS-232 tamper restoral reporting code.

PC41XX ZONE EXP (2)

There are 16 reporting codes for tamper restorals on 4108 and 4116 zone expansion modules. If you use all 4108's, the maximum number of expansion modules you will use is 14 (14 \times 8 zones = 112 zones + 16 zones on the main panel = 128 zones). For this reason, reporting codes 15 and 16 are for future use.

PC4216 16 O/P (3)

There are 9 tamper restoral reporting codes, one for each 4216 module that can be enrolled onto the system.

PC4204 4 O/P (4) There are 16 module tamper restoral reporting codes, one for each 4204 that can be enrolled onto the system.

[F][A][P] KEYS (05) [F] [A] [P] KEYS Reporting Codes for [F]ire, [A]uxiliary, [P]anic key alarms and [F]ire, [A]uxiliary, [P]anic key restoral codes.

CLOSINGS (06)

Reporting Codes for Closings by Access Codes. There are 128 reporting codes, one for each access code.

MISC CLOSINGS (07)

Miscellaneous Reporting Codes for Closings. These 4 reporting codes are for Quick Arm, Partial Closing, Auto Arm Closing, and Keypad Lockout.

- Quick Arm See [*][0] user function in the system manual.
- Partial Closing If a partition auto-arms, and some zones were open, the system will force arm itself, bypass the open zones and send the partial closing reporting code to the monitoring station along with the alarm reporting codes of the zones that are open. Also, if zones were manually bypassed, the partial closing reporting code will be transmitted.
- Auto Arm Closing When the system Auto-arms, the panel will send the auto-arm reporting code to the monitoring station. See Auto-arm [*][6] functions in the System Manual.
- Keypad Lockout If too many incorrect access codes (see "TOTAL BAD CODES" under Keypad Lockout Options for programming the number of incorrect code entries) are entered, the keypad will lock up, preventing anyone from attempting to enter any more access codes. When keypad lockout occurs, the keypad lockout reporting code is sent to the monitoring station.

OPENINGS (08)

Reporting Codes for openings by Access Codes. There are 128 reporting codes, one for each access code.

MISC OPENINGS (09)

Miscellaneous Reporting Code for Openings. The one for miscellaneous openings is the Opening After Alarms Reporting Code. An opening after alarm reporting code is sent to the monitoring station when the system is disarmed, and there was an alarm while the system was armed

SYSTEM MAINT

(10)

System Maintenance Reporting Codes. There are 19 reporting codes dealing with the operation and maintenance of the system. The reporting codes are:

- Battery Trouble and Battery Restoral If the battery voltage on the PC4000 main panel is weak, disconnected or if the battery fuse fails, a battery trouble occurs, and the battery trouble reporting code is sent. When the battery voltage and fuse are restored, the battery restoral code is sent. See Battery Trouble under Trouble Display [*][2] in the System Manual.
- AC Line Trouble and AC Line Restoral If the incoming AC voltage to the AC terminals fails, an AC trouble occurs and the AC trouble reporting code is sent to the monitoring station after the AC Fail Tx Delay has elapsed (see "AC FAIL TX DELAY"). When the incoming AC is restored, the AC restoral reporting code is sent to the monitoring station. See AC Trouble under Trouble Display [*][2] in the System Manual.
- Main Bell Trouble and Main Bell Restoral If a bell trouble occurs, either from the bell fuse failure or the open bell terminals, the Main Bell Trouble reporting code will be sent to the monitoring station. When the trouble condition is restored, the Main Bell Restoral reporting code will be transmitted.
- Main Aux Trouble and Main Aux Restoral If an auxiliary voltage supply trouble occurs, the Main Aux Trouble reporting code is transmitted, and when the auxiliary voltage supply is restored, the Main Aux Restoral code is transmitted.
- COMBUS Trouble and COMBUS Restoral When the main panel losses communication with a module, the Combus Trouble reporting code will be transmitted, and when communications resume the Combus Restoral reporting code will be sent.
- TLM Restoral If there is a telephone line monitoring trouble, the PC4000 will not be able to communicate with the monitoring station until the telephone line is restored, then the TLM Restoral reporting code will be sent.
- FTC Restoral If a failure to communicate trouble occurs, where the PC4000 could not get through to the monitoring station, the next time the panel attempts to communicate and is successful, it will also transmit the FTC restoral reporting code.
- Periodic Test This is the reporting code that is sent to the monitoring station to test communications. This is the same reporting code that can be programmed in the 'Test Code Tx' section, where the cycle time for the test transmission is programmed.
- Buf Near Full This reporting code is sent to the monitoring station when the Event Buffer on the PC4000 is 75% full. The event buffer holds up to 512 events, therefore when the event buffer has 384 events recorded, the Buffer Near Full reporting code will be transmitted.
- User System Test When the user does a [★][6] bell/comm test, the User System Test reporting code is sent to the monitoring station to test communications. See "BELL/COMM TEST" in the System Manual.
- DLS Lead In and DLS Lead Out If the DLS Lead In reporting code is to be used, the DLS callback feature must be enabled. (See DLS callback under DLS Toggles). When a computer calls the PC4000 panel, after connection is made, both the panel and the computer will hang up the telephone line. The panel will then transmit the DLS Lead In reporting code to the monitoring station. The panel will then call the computer and begin downloading. When the computer is finished downloading to the panel, they will both hang up the phone line, and the PC4000 will transmit the DLS Lead Out reporting code to the monitoring station.
- Ins Lead In and Ins Lead Out The Installer's Lead In reporting code is sent to the monitoring station when an installer enter's the [*][8] installer's programming mode. The Lead Out code is sent when the installer leaves [*][8] installer's programming.

4204 MOD MAINT (11) The PC4204 module maintenance reporting code section has reporting codes for sixteen modules, with 6 codes for each module, in a total of 96 reporting codes. The 6 codes for each module are Battery Trouble, AC Line Trouble, Aux Supply Trouble, Battery Restoral, AC Line Restoral and Aux Supply Restoral. These reporting codes are similar to the system maintenance reporting codes for the PC4000 main panel.

4400 MOD MAINT (12) The PC4400 module maintenance reporting code section has 2 reporting codes, RS-232 Trouble and RS-232 Restoral. If there is a problem that the RS-232 cannot transmit, the RS-232 Trouble reporting code is sent to the monitoring station. When the problem is cleared, and the RS-232 has successfully transmitted, the RS-232 restoral is sent to the monitoring station.

2ND MASTER CLOSE (13)

The Second System Grand Master Code used by the installer has a reporting code to report when it has been used to arm a partition.

2ND MASTER OPEN (14)

The Second System Grand Master Code used by the installer has a reporting code to report when it has been used to disarm a partition.

SWITCHED AUXILIARY OUTPUT

SW AUX OUTPUT (06)

The switched auxiliary output terminal on the main panel is a 12 volt power supply activated and deactivated by any one of 23 options. When the switched auxiliary is activated, it outputs 12 volts (if measured, will read 13.8 volts). The switched auxiliary output, for some options can also be programmed to activate for only selected partitions.

For example:

If the SW AUX output has been programmed for Sensor Reset and enabled on partition 1 and partition 2.

Pressing [*][4] on any keypad assigned to partition 1 or partition 2 will deactivate the output for the amount time programmed in "PGM PULSE TIME".

Pressing [*][4] on a keypad assigned to partitions 3 to 8 will not activate the output.

Refer to the PGM OUTPUTS LIST for the list of options available.

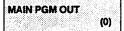
MAIN BELL OUTPUT

MAIN BELL OUTPUT (07)

The bell output on the main control board can be programmed to activate for any one of the 23 PGM output options on any number of partitions. The BELL terminal is normally 13.8 VDC and will switch to ground potential when activated. The BELL terminal will be at ground potential and switch to 13.8 VDC if any "INV" option is selected. If the bell output is not being used, a 2200 ohm resistor must be connected across the terminals as the output is supervised.

PGM OUTPUTS

Main PGM Output



The PGM output can be programmed to activate for any one of the 23 options listed in the PGM outputs list. Normally the output will be open collector (not active) and will switch to ground potential (active). The output will switch from ground potential (active) to open collector (not active) if any "INV" options is selected.

PC4204 Options



Each relay of any 4204 relay module can be programmed to activate for any one of the 23 options listed in the PGM outputs list. Normally each relay will be de-energized and energized when active. The relay will normally be energized and then de-energized if any "INV" option is selected. Output 1 will always be active if left at default of (19) COMBUS power. It will ever be active unless there is no incoming COMBUS power.

PC4216 Options

4216 OPTIONS (2)

A maximum of nine 4216 output modules can be connected to the system. First select the PC4216 to be programmed, then select the option it is going to be programmed for. The PC4216 can be an alarm annunciator, a zone follower or a custom PGM array.

CUSTOM PGM ARRAY (00)

The custom PGM array allows each of the 16 outputs to be individually programmed with one of the 23 options listed in the PGM outputs list. Each outputs are programmed in the "4216 CUSTOM" section. More than one PC4216 can be programmed as a Custom PGM Array, but all of them will be following the same options. For example, in the "4216 CUSTOM" section. If output 1 is programmed as "TLM ONLY", and there are two PC4216's programmed as Custom PGM Array. When a TLM trouble occurs, output 1 on both modules will activate.

ALARMS 1-16 (01) The 8 selections of "ALARMS XX-XX" are for programming the PC4216 to annunciate alarms. The 16 outputs will activate for each of the corresponding selected zones. The output will remain active, even when the partition is disarmed, for continuously showing the zones which have gone into alarm. The outputs will deactivate the next time the partition is armed. For example, a PC4216 is programmed for Alarms 49-64. If zone 53 goes into alarm, the output will activate and remain active even when the bells are silenced and the partition is disarmed. The outputs will reset when the partition is armed again. More than one PC4216 can be programmed to annunciate the same zones.

FOLLOW 1-16 (09) The 8 selections of "FOLLOW XX-XX" are for programming the PC4216 to annunciate open zones.

The 16 outputs will activate for each of the corresponding selected zones. The output will activate when the zone is open, and deactivate when the zone is restored. More than one PC4216 can be used to annunciate the same group of 16 zones. For example, PC4216 #1 is programmed as Follow 33-48 and #5 is programmed as Follow 33-48. If zone 34 is opened, output 2 on both 4216's will activate.

See "Follows + Alarms" for making outputs act as a zone follower and alarm annunciator.

4216 CUSTOM (3)

This section is for programming the 16 outputs on a PC4216 as Custom PGM Array, with different options listed in the "PGM OUTPUTS LIST". More than one PC4216 can be programmed as Custom PGM Array, which will follow the same 16 output options.

PGM Pulse Times

PGM PULSE TIMES (4)

Programs the amount of time the PGM output will remain active for, after being triggered.

UTILITY/SENSOR (0)

The main bell, switched auxiliary or any of the PGM outputs programmed for "Utility Output" or "Sensor Reset", can be active for 000 to 255 seconds.

KISSOFF PULSE (1)

Any output programmed for "Kissoff Output" can be active for 000 to 255 seconds.

GROUND START (2)

(3)

Any output programmed for "Ground Start" can be active for 000 to 255 seconds.

CHIME PULSE

Any output programmed for "Chime Pulse" can be active for 000 to 255 seconds.

PGM OUTPUTS LIST

FIDE	AND	PUDC	

The output will activate when any fire or zone alarm occurs on any of the selected partitions.

INV FIRE/BURG (01)

(00)

The output will deactivate when any fire or zone alarm occurs on any of the selected partitions. <u>NOTE</u>: This option must only be enabled on enabled partitions.

BURG ONLY (02)

The output will activate when any zone alarm occurs on any of the selected partitions.

INV BURG ONLY (03)

The output will deactivate when any zone alarm occurs on any of the selected partitions. *NOTE:* This option must only be enabled on enabled partitions.

FIRE ONLY (04)

The output will activate when any fire alarm occurs on any of the selected partitions.

INV FIRE ONLY (05)

The output will deactivate when any fire alarm occurs on any of the selected partitions. <u>NOTE</u>: This option must only be enabled on enabled partitions.

UTILITY OUTPUT (06)

The output will activate when [*][7] is entered on any keypad on any of the selected partitions.

SENSOR RESET (07)

The output will deactivate when [*][4] is entered on any keypad on any of the selected partitions.

PARTITION STATUS (08) The output will activate when any of the selected partitions are armed.

LATCHED STROBE (09)

The output will activate when any alarm occurs on any of the selected partitions. The output will stay activated until the partition that caused the alarm is disarmed.

TROUBLE OUTPUT (10)

The output will activate when a trouble condition is present on any of the selected partitions. If a system trouble occurs (i.e. loss of time, TLM) all trouble outputs will activate.

COURTESY PULSE (11)

The output will activate during exit and entry delay on any of the selected partitions.

CHIME FOLLOWER (12)

The output will activate when door chime is activated on any of the selected partitions, and deactivate when the chime pulse timer expires. (See "CHIME PULSE" under "PGM PULSE TIMES".)

Door chime activates when a zone is opened and activates again when a zone is closed. For Door Chime to activate, the user must enable the door chime (see "DOOR CHIME" under [*][6] User Functions in the System Manual) and the installer will enable door chime for the individual zones (see "CHIME FUNCTION" under "ZONE OPTIONS").

TLM ONLY

(13)

The output will activate when a telephone line trouble is present.

TLM AND ALARM (14)

The output will activate when a Telephone Line Trouble is present and an alarm occurs on any of the selected partitions. The partition must be armed for the output to activate.

FAILURE TO COMM (15)

The output will activate when a Failure to Communicate failure is present. The output will stay activated until the trouble is cleared by the user or a successful communication is sent to the central station.

COMMS ACTIVE

(16)

The output will activate while the panel is attempting to communicate with the central station.

GROUND START

(17)

The output will activate for a programmable number of seconds before the panel attempts to communicate with the central station. See "PGM Pulse Times".

KISSOFF OUTPUT
(18)

The output will activate for a programmable number of seconds after a successful communication to the central station. See "PGM Pulse Times".

COMBUS POWER (19)

This output will remain active at all times unless a system reset is ordered by the main panel.

READY STATUS
(20)

The output will activate when all the zones in the partition are closed, and the partition is disarmed. If a zone opens or the partition is armed, the output will deactivate.

ZONE ALARM
(21)

This output will annunciate when a selected zone has gone into alarm. Any one of the 128 zones can be selected. If the zone is armed and goes into alarm, the output will activate and remain active, even when the partition the zone belongs to has been disarmed. The output will remain active until the partition is armed again.

ZONE FOLLOW

(22)

This output will follow a selected zone. Any one of the possible 128 zones can be selected. If the zone is opened, the output will activate. When the zone is closed the output will deactivate. See "Follows + Alarms" for enabling the output to be a zone follower and zone alarm annunciator.

RS-232 OPTIONS

RS-232 OP	TIONS
	(09)

Program the baud rate and handshake required for the PC4400 RS-232 module if one is connected to the system.

BAUD RATE (0)

The Baud Rate is the communications speed of the PC4400 module. The PC4400 can communicate at 300, 600, 1200, or 2400 baud. If the printer is experiencing problems with missing characters, try lowering the baud rate.

HANDSHAKE (1) This section is used to program the type of handshake signal used with the printer.

HANDSHAKE OFF N

This selection is for printers that do not use handshakes.

YES = No handshake (XON/XOFF).

NO = A handshake signal is sent to the printer (DTR Protocal).

ADD/EDIT PARTITIONS

ADD/EDIT PAR (0)

Add/Edit Partition. Default settings has only the first partition enabled. To enable more partitions, select the Add/Edit partition section, then select the partition. The partition is now enabled. To check if a partition is enabled or not, exit installer's programming, enter in a system master code and select the 'View Partitions' option. Only partitions which are enabled will be displayed.

WHICH PARTITION
(1) → (8)

The PC4000 can be divided into 8 partitions. This section selects which of the 8 partitions the installer is programming.

CUSTOMER ID CODE (0)

Each partition has its own 4 digit customer account number that will be transmitted to the monitoring station when a reporting code is sent. The monitoring station can then identify the customer. Where a zero digit is required, use Hex A to transmit ten pulses. The receiver at the monitoring station interprets ten pulses as a zero. If a three digit code is required, enter [0] as the last digit. [0] represents a null digit, no pulses will be transmitted.

Partition Toggles

PAR TOGGLES (1)

Enabling or disabling options for individual partitions.

[F] ENABLED

YES= The [F]ire key is enabled.

NO = The [F]ire key is disabled.

(See "KEYPAD TOG OPT".)

[A] ENABLED

YES= The [A]uxiliary key is enabled.

NO = The [A]uxiliary key is disabled.

J (See "KEYPAD TOG OPT".)

[P] ENABLED

YES= The [P]anic key is enabled.

NO = The [P]anic key is disabled.

(See "KEYPAD TOG OPT".)

DISPLAY CLOCK

YES= The time and date will be displayed on every keypad of the partition instead of the "ENTER CODE TO ARM SYSTEM" message after 10 seconds of no key presses.

NO = No clock display.

DISP EXIT TIME

YES= The exit delay time remaining will be displayed in the lower corner on all keypads on the partition during the exit delay.

NO = No exit time display.

BYPAS REQ CODE

Bypass require code?

YES= Bypassing zones requires a valid access code ([*][1][code]). Either a system master or an access code assigned to that partition.

NO = No access code required to bypass zones. ([*][1])

AUTOARM ENAB

YES= Auto Arm control enabled.

NO = Auto Arm control disabled. If disabled, the user will not be able to enter the Auto Arm control menu in the [*][6] user functions.

ABORT REQ CODE N

YES= An access code must be entered during the auto-arm pre-alert to abort the auto-arm.

NO = Pressing any key during the pre-alert will abort the auto-arm.

BELL SQUAWK ON N

YES= The bell output will activate once briefly when the partition is armed, twice when disarmed. Only the bell terminals on the PC4000 main board, when programmed for "Fire and Burg", "Inv Fire/Burg", "Burg Only" or "Inv Burg Only", will squawk.

NO = Bell Squawk disabled.

KYPD LOCKOUT?

YES= Keypad Lockout enabled.

NO = Keypad Lockout disabled.

(See "TOTAL BAD CODES", "LOCKOUT DURATION" and "LOCKOUT REP CODE".)

UTIL REQ CODE

N

(0)

(3)

YES= Utility output requires a valid access code - [*][7][access code].

NO = No access code required - [*][7].

(See "UTILITY OUTPUT".)

SEN RES REQ CD

YES= Sensor Reset Requires Code - [*][4][access code].

NO = Sensor Reset does not require a code - [*][4].

(See "SENSOR RESET".)

USER FN ANY CD

YES= User functions require [*][6][any code].

NO = User functions require [*][6][Master Code]. This means a Grand Master, System Master or a Partition Master Code assigned to that partition.

Partition Times

PARTITION TIMES (2)

The following programming sections are for programming various times separately for each partition.

ENTRY DELAY

The keypads will give a tone to signal an entry delay when a Standard Delay zone or a Delay Home Away zone is activated. This gives the user time to disarm the system when they enter through a door. The entry delay time is programmable from 000 to 255 seconds. (See Standard Delay zones and Delay Home Away zone types).

EXIT DELAY (1)

When a system is armed, the zones will not become active until the exit delay has expired, this gives the user time to exit the building without tripping alarms. The exit delay time is programmable from 000 to 255 seconds. This time can be displayed on the keypad (See "DISP EXIT TIME").

AUX ENTRY DELAY (2)

This entry time is for auxiliary delay zones, for doorways that may need a longer or shorter entry delay than standard delay zones. This time is programmable from 000 to 255 seconds (See Auxiliary Delay zone types).

AUX EXIT DELAY

This exit time is for auxiliary delay zones, for doorways that may need a longer or shorter exit delay than standard delay zones. This time is programmable from 000 to 255 seconds. (See Auxiliary Delay zone types)

ADD/EDIT ZONES

Zone Assignment

ZONE ASSIGNMENT (3)

This section is for assigning type, options and reporting codes for each individual zone.

ADD NEW ZONE

By default, the first 16 zones on the main panel are assigned to partition 1. If zone expanders have been enrolled, the zones must be added to a partition for the PC4000 to be able to monitor them.

Upon entering this section, the zones which have not been assigned to the selected partition will be displayed. Use [<][>] keys to toggle through the zones, and the [*] key to select which zone to add to the selected partition.

EDIT ZONE

(1)

(0)

This section is for editing zones which have already been assigned to a partition. Upon entering this section, the zones which have been assigned to the selected partition will be displayed. Use the [<][>] keys to toggle through the zones, and the [*] key to select the zone to edit.

ZONE LABEL

(0)

Each zone can have its own unique label to help identify it on the LCD keypad. Upon first entering this section, the LCD will display the zone number and the current zone label. Press the [*] key to continue into the zone label menu.

Each zone label is made up of two words. Both words are taken from the library of 255 words in the PC4000's memory. See appendix B for a list of the library words.

Note that the last 32 words (224-255) of the library are programmable for personalizing the zone labels.

See "CUSTOM ZONE ID" under LCD messages for programming the 32 custom labels.

Be careful when selecting the two words that make up the zone label. The keypad can only display 15 letters. If the two words combined are longer than 15 letters, everything after the 15th letter will be cut off.

ZONLAB 1ST WORD

This section is for selecting the first word of a zone label. Valid entries are from 000 to 255. See Appendix B for a listing of the 255 words available.

If this section is programmed with 000 and "ZONLAB 2ND WORD" is programmed with 000, the zone label will be the zone number.

For example, if zone 21 was programmed with 000 for both label words, the label would be "ZONE 21". This is the default setting for all zones.

ZONLAB 2ND WORD (1)

This section is for selecting the second word of a zone label. Valid entries are from 000 to 255. See Appendix B for a listing of the 255 words available.

If only one word is needed for a zone label, use the first word and leave the 2nd word as 000. Be careful when selecting two words, only a total of 16 letters can be entered. Everything after the 16th letter will be cut off.

Zone Type

ZONE TYPE (1)

Select the zone type for the selected zone. Upon entering this section, the current programmed zone type is displayed.

For example, zone 001 will display "STANDARD DELAY" the first time it is programmed. The default setting is for Standard Delay. All other zones (002 through 128) are instant zones by default.

<u>NOTE</u>: Every time the zone type is selected, the zone options for the selected zone will be set to a default setting. The default settings will be different depending on the zone type selected.

Zone	Opt	ions
------	-----	------

Zone Type Default Settings

	Standard Delay	Auxiliary Delay	Instant	Interior	Int Home Away	Delay Home Awa	24 hr Bell	24 hr Bell/Buzz	24 hr Buzzer	Standard Fire	Delayed Fire	Auto Ver Fire	Momentary Arm	Maintained Arm	Latching 24 hr	Forced Answer
Bell Audible	Υ	Υ	Υ	Υ	Υ	Y	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
Bell Pulsed	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Υ	Υ	Υ	Ν	Ν	Ν	Ν
Bypass Enabled	Υ	Υ	Υ	Υ	Y	Υ	Υ	Υ	Υ	Ν	Ν	Ν	Υ	Υ	Ν	Υ
Chime Function	Υ	Υ	Υ	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν
Force Arm	Ν	Υ	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	N	Ν	Ν
Swgr Shut Down	Υ	Υ	Υ	Υ	Υ	Υ	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Υ
Tx Delay?	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν

For example, if zone 009 is programmed for zone type "24 HR BUZZER", the zone options "BELL AUDIBLE" and "BYPASS ENABLED" will be enabled, and all other options will be disabled for zone 009.

STANDARD DELAY
(00)

Standard delay zones have an entry and exit delay. The exit delay starts as soon as the panel is armed. The loop may be opened and closed during the delay time without causing an alarm. After the exit delay time has expired, opening the loop will start the entry delay timer. During the entry delay time, the keypad will sound steadily to advise the user that the system should be disarmed. If the panel is disarmed before the entry time expires, no alarm will be generated.

AUXILIARY DELAY (01) The auxiliary delay zone operates the same way as the standard delay zone. However different entry/exit times may be programmed. This is useful when a system has two delay zones, each requiring a different entry/exit time.

INSTANT (02)

The zone opened will activate instantly after the partition is armed and the exit delay has expired.

INTERIOR (03) The zone will follow the entry time of a delay zone. If no delay zone has been tripped the zone will activate instantly.

INT HOME AWAY (04)

The zone will operate the same as the interior option with one exception: the zone will automatically bypass if no delay zone on the partition is tripped during exit delay.

DELAY HOME AWAY (05) The zone will operate the same as the Interior Home/Away option with one exception: the zone has entry delay.

24 HR BELL (06) A 24 Hour Bell zone is active at all times, and will create an alarm whether the partition is armed or disarmed. This zone will not go into alarm if the zone is bypassed.

24 HR BELL/BUZZ (07) This zone operates like the 24 hour bell option except the bell output terminals are activated when the partition is armed, and the keypad buzzer will be activated when the partition is disarmed.

24 HR BUZZER (08)

Operates the same as the 24 hour bell, except this zone will only activate the keypad buzzer.

STANDARD FIRE (09)

A fire zone is a 24 Hour zone that is specially used for fire detection circuits. On alarm, the bell output will pulse the bells to indicate that the fire loop has been activated. The communicator will immediately transmit the alarm to the monitoring station.

If the fire zone is open circuit, the keypads will beep every 10 seconds and a fire zone trouble will be displayed on the LCD. If programmed the communicator will transmit the trouble to the monitoring station. The keypad beeping may be silenced by pressing the [#] key.

DELAYED FIRE (10)

This fire zone works the same way as a 24 Hour fire zone, except the alarm memory and transmission by the communicator is delayed by 30 seconds. If the alarm is acknowledged by pressing the [#] before the 30 second delay expires, the bells will silence and the transmission will be aborted.

If after the alarm has been acknowledged, and the smoke detector has not been restored to normal, after 90 seconds the bell output will be activated again, in which the user then has another 30 second delay before the bell output latches and communicator are activated. A code would then be required to silence the bell output.

AUTO VER FIRE

(11)

Automatically Verifying Fire Zone.

This zone works the same way as the Standard Fire Zone with the exception that it will reset the smoke detectors and wait for it to go into alarm again before sounding the bells and transmitting the alarm to the monitoring station. If the smoke detectors do not go into alarm again, it assumes there is a false alarm and no fire alarm will be initiated.

For activating an automatically verifying fire zone, the smoke detectors must be powered by the SW AUX power supply on the main panel, or controlled by a relay on a PC4204 module. Otherwise the PC4000 has no control over the power to the sensors.

When an automatically verifying fire zone is opened, the PC4000 performs a "SENSOR RESET", which removes the power from the smoke detectors for 20 seconds. All SW AUX, BELL or PGM outputs programmed for "SENSOR RESET" will activate. The outputs will activate for 20 seconds, regardless of the time programmed in the "PGM PULSE TIMES" section. After 20 seconds, power will be restored to the sensors.

If the smoke detectors initiate another alarm within 60 seconds after the power is restored, a fire alarm will immediately sound and the monitoring station will be notified.

If the smoke detector is not reset during the sensor reset, the zone will not be restored. Because the zone is not restored, no fire alarm will be initiated.

See PGM OUTPUTS for programming an output as "SENSOR RESET", "Smoke Detector Power Supply" on the PC4204 Wiring Diagram for using the PC4204 to power up the smoke detectors, and PC4000 Wiring Diagram in the System Manual for using the SW AUX on the main panel to power up the smoke detectors.

MOMENTARY ARM (12)

A momentary closure of this zone will alternately arm and disarm the partition. This zone can be used as a key switch to arm and disarm the system. The zone is monitored for End of Line resistors if the "ZONES EOL" option is enabled in the system options.

MAINTAINED ARM (13) When the zone is closed the partition will disarm. When the zone is opened the partition will be armed. The zone is monitored for End of Line resistors if the "ZONES EOL" option is enabled in the system options.

LATCHING 24 HR (14) The zone will operate the same as the 24 hour bell option with one exception: the installer's mode ([*][8]) must be entered before the system can be armed. This will ensure the problem has been examined by the installer.

FORCED ANSWER (15)

When this zone is tripped, the panel will instantly pick up the phone lines looking for a downloading computer. Do not use this zone type to monitor for alarms.

Zone Options

BELL AUDIBLE

YES = An alarm causes the bell output to activate.

NO = Silent alarm.

BELL PULSED N

YES= The bell output will pulse when the zone is in alarm.

NO = The bell output will be steady when the zone is in alarm.

BYPASS ENABLED Y

YES = The zone may be manually bypassed.

NO = The zone cannot be bypassed.

CHIME FUNCTION Y

YES= Every keypad on the partition will chime both when the zone is violated and when the zone is then secured. The partition must be disarmed for the chime option to function.

NO = The zone will not chime the keypads.

FORCE ARM

YES = The partition may be armed with the zone violated. The zone will be temporarily bypassed, and when the zone is secured it will be added back into the system.

NO = The partition cannot be armed if this zone is open.

SWGR SHUT DOWN

YES = After a zone causes a programmed number of alarms, the zone will shut down so that no further transmissions are sent to the monitoring station. The bell can follow swinger shut down if programmed. (See "SHUT DOWN 24HRS", "SWINGER LIMIT" and "BELL SHUT DOWN".)

NO = Swinger shut down disabled.

TX DELAY ?

YES= The reporting of zone alarm will be delayed for the programmed time. If the system is disarmed within this time, no alarm signal will be communicated. (See "ZONE TX DELAY".)

NO = When an alarm occurs, the reporting code is transmitted immediately.

Reporting Codes

REP CODES (3)

These are the reporting codes transmitted to the monitoring station for the selected zone. They are the same as the zone alarm and zone restoral reporting codes programmed in the communicator section of the system area.

ALARM REPCODE (0)

This is a 2 digit alarm reporting code for the zone being added to the partition.

RESTORE REPCODE (1)

This is the 2 digit restoral reporting code for the zone being added to the partition.

DELETE ZONE

DELETE ZONE

(2)

Deleting zones from the partition. When selecting which zone to delete, the keypad will only display zones which are assigned to the partition.

PAR NAME LABEL

(4)

Programming a partition name label. This label is programmed in the same manner as LCD messages or custom zone ID.

DELETE/COPY PARTITION

DE	LETE PARTIT	IUN
		/11

Disables a partition.

If a partition is deleted, it does not erase any programming or remove any zones assigned to it, so if the installer decides to re-enable the partition, the programming is still there.

COPY PARTITION (2)

Copies a partition.

Copies the programming from one partition to another one. This includes the Customer ID Code, Partition Toggles, Partition Times and the Partition Name Label. The zone assignment is not copied.

MODULE Hardware

Enroll Module

ENROLL MODULE (0)

Each time a module is added, it must be enrolled on the system.

When adding modules to the system ensure that the power is off when connecting the COMBUS wiring.

LCD4500 KEYPADS (0)

Press any key on desired unit, then select partition for the keypad to be on.

PC4400 RS-232 (1)

'CREATE TAMPER ON DESIRED UNIT' will be on the display of the keypad being used for programming after the module has been chosen to be added. Open the tamper zone to activate it. Only one PC4400 can be enrolled.

PC41XX ZONE EXP
(2)

'CREATE TAMPER ON DESIRED UNIT' will be on the display of the keypad being used for programming after the module has been chosen to be added. Open the tamper zone to activate it. The keypad will display whether a PC4108 or a PC4116 was enrolled. Press the [<][>] keys to display which zones are added when the module is enrolled.

PC4216 16 O/P

'CREATE TAMPER ON DESIRED UNIT' will be on the display of the keypad being used for programming after the module has been chosen to be added. Open the tamper zone to activate it.

PC4204 4 O/P (4) 'CREATE TAMPER ON DESIRED UNIT' will be on the display of the keypad being used for programming after the module has been chosen to be added. Open the tamper zone to activate it.

<u>NOTE</u>: The LCD4500 being used to program with will indicate the module number after the module has been tampered. Make sure this number is recorded on the module programming work sheets.

Delete Module

DELETE MODULE (1)

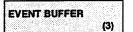
The PC4000 memorizes each module on the system. When a module is removed, it must be deleted from memory.

Confirm Module

CONFIRM MODULE (2)

Identify a module on the system in case the module number has been lost and further programming on that module is desired. Once the tamper is created the LCD4500 display will indicate the module number.

EVENT BUFFER



The installer can review the events stored in the event buffer by sending the contents of it to a printer.

PRN ENTIRE BUFF (0)

Printing out the event buffer through the PC4400 module. All events stored in the event buffer will be printed out. The event buffer can store up to 512 events.

NOTE: If the printer is left on line hooked up to the PC4400 (RS-232) module, it will always print out events as they occur.

DIAGNOSTICS

DIAGNOSTICS (4)

(0)

The Diagnostics function helps the installer to track down any problems that may be occurring with the modules. If this section is entered during the first minute after powering up the system, the selections Diagnostics, Binary Program, Memorize Vbat and Factory Default will be available to the installer. After the first minute, Diagnostics will automatically be selected.

DIAGNOSTICS

The Diagnostics function helps the installer to track down any problems that may be occurring with the modules.

If there is no problem the keypad will display 'PC4000 System No Faults Found'. If there is a problem, the keypad will display 'Error ... Module' along with 'E- T- LV-' and a number following one of them. The number represents a module (See Appendix C). The 'E' stands for a communications error, if the number follows the 'E', the main panel has lost communications with the module represented by the number. The 'T' stands for tamper, which means the tamper zone on the module has been activated. The 'LV' stands for low voltage, for when the module is not receiving enough voltage from the combus. For example, if the display shows 'E- T-25 LV-', this means the tamper on the PC4400 RS-232 module has been activated. The [<][>] keys are used to toggle the display if there is more than one module with a trouble.

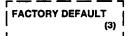
NOTE: The following items are available during the first minute after power up.



Normally used upon instruction from factory technical personal for specialized programming not covered by the standard programming instructions.



Programs the battery offset voltage. Normally this is already set at the factory and need not be done again. To set the VBAT = 13.85 volts, remove the battery from the battery terminals. The battery terminals should now be output 13.85 volts. If it's not 13.85, turn the 'pot' below the heatsink until the voltage is the correct value. (If the voltage is 0 volts, check the battery fuse).



The programming keypad will display the message 'Power System Down and Restart'. Remove all power to the main panel. This will erase all programming and reset the system to factory default settings. All modules will have to be re-enrolled.

INDEX

LCD Message

This index of messages is useful for those familiar with
the operation of the system and need a quick
reference. First enter [*][8][Installer's code], then the
Quick Message Numbers for the option/function of
interest.

Example:

AUX ENTRY DELAY, enter:

 $[*][8][4000] \triangleright (1) \triangleright (0) \triangleright (1) \rightarrow (8) \triangleright (2) \triangleright (2)$

- ▶ indicates sequence of entries, e.g. a number then(▶) the next.
- → indicates a range of entries from which one is chosen, e.g. (1) to(→) (8).

chosen, e.g. ((1) to(→) (8).		ABORT REQ CODE	$(1) \blacktriangleright (0) \blacktriangleright (1) \rightarrow (8) \blacktriangleright (1) \blacktriangleright T$	35
T = Toggle			AC FAIL TX DELAY	(0) ▶ (05) ▶ (2) ▶ (2)	24
- 33			AC INHIBIT ARM	(0) ► (03) ► (0) ► T	8
			AC TBL DISP	(0) ► (03) ► (0) ► T	8
Symbols	Quick Message Numbers F	age	ACCESS CODE	(0) ▶ (04) ▶ (4)	13
# OF RINGS	(0) ▶ (04) ▶ (6)	13	ADD NEW ZONE	$(1) \blacktriangleright (0) \blacktriangleright (1) \rightarrow (8) \blacktriangleright (3) \blacktriangleright (0)$	37
[A] AUD BUZZ	(0) ► (03) ► (1) ► T	10	ADD/EDIT PAR	(1) ▶ (0)	35
[A] ENABLED	$(1) \blacktriangleright (0) \blacktriangleright (1) \rightarrow (8) \blacktriangleright (1) \blacktriangleright \top$	35	ALARM REPCODE	(4) - (0) - (4) (0) - (0) - (0) - (0) - (0) - (0)	
[A] SIL BELL	(0) ► (03) ► (1) ► T	10	(Add)	$(1) \triangleright (0) \triangleright (1) \rightarrow (8) \triangleright (3) \triangleright (0) \triangleright WHICH ZONE$ $\triangleright (3) \triangleright (0)$	40
[A] STDY BELL	(0) ► (03) ► (1) ► T	10	(Edit)	(1) ► (0) ► (1)→(8) ► (3) ► (1) ► WHICH ZONE	
(F) BELL	(0) ► (03) ► (1) ► T	10		► (3) ► (0)	40
[F] BUZZER	(0) ► (03) ► (1) ► T	10	ALARM WHEN ARMED	0(0) ► (01) ► (1) ► (1)	6
[F] ENABLED	$(1) \blacktriangleright (0) \blacktriangleright (1) \rightarrow (8) \blacktriangleright (1) \blacktriangleright T$	35	ALARM/RESTORE (Phone #1)	(0) = (05) = (0) = (0) = (2) = T	04
[F] PULSE BELL	(0) ► (03) ► (1) ► T	10	(Phone #2)	$(0) \triangleright (05) \triangleright (0) \triangleright (0) \triangleright (2) \triangleright T$ $(0) \triangleright (05) \triangleright (0) \triangleright (1) \triangleright (2) \triangleright T$	21 21
[F][A][P] KEYS	(0) ▶ (05) ▶ (3) ▶ (05)	26	(Phone #3)	$(0) \triangleright (05) \triangleright (0) \triangleright (2) \triangleright (2) \triangleright T$	21
[P] ENABLED	$(1) \blacktriangleright (0) \blacktriangleright (1) \rightarrow (8) \blacktriangleright (1) \blacktriangleright T$	35	ALARMS 1-16	$(0) \blacktriangleright (08) \blacktriangleright (2) \blacktriangleright (1) \rightarrow (8) \blacktriangleright (01)$	30
[P] SIL BELL	(0) ► (03) ► (1) ► T	10	ALARMS 17-32	$(0) \triangleright (08) \triangleright (2) \triangleright (1) \rightarrow (8) \triangleright (02)$	30
[P] SILENT BUZ	(0) ► (03) ► (1) ► T	10	ALARMS 33-48	$(0) \triangleright (08) \triangleright (2) \triangleright (1) \rightarrow (8) \triangleright (03)$	30
[P] STDY BELL	(0) ► (03) ► (1) ► T	10	ALARMS 49-64	$(0) \triangleright (08) \triangleright (2) \triangleright (1) \rightarrow (8) \triangleright (04)$	30
1200 BAUD	(0) ▶ (09) ▶ (0) ▶ (2)	34	ALARMS 65-80	$(0) \triangleright (08) \triangleright (2) \triangleright (1) \rightarrow (8) \triangleright (05)$	30
1ST NUMBER	$(0) \blacktriangleright (05) \blacktriangleright (0) \blacktriangleright (0)$	14	ALARMS 81-96	$(0) \triangleright (08) \triangleright (2) \triangleright (1) \rightarrow (8) \triangleright (06)$	30
2 CALL TIMER	(0) ► (04) ► (5)	13	ALARMS 97-112	$(0) \blacktriangleright (08) \blacktriangleright (2) \blacktriangleright (1) \rightarrow (8) \blacktriangleright (07)$	30
24 HR BELL			ALARMS 113-128	$(0) \blacktriangleright (08) \blacktriangleright (2) \blacktriangleright (1) \rightarrow (8) \blacktriangleright (08)$	30
(Add)	(1) ► (0) ► (1)→(8) ► (3) ► (0) ► WHICH ZONE		ALARMS DISP	(0) ► (03) ► (0) ► T	8
	► (1) ► (06)	38	ALL OTHERS (Phone #1)	(0) > (05) > (0) > (0) > (2) > T	04
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24 HR BELL/BUZZ			(Phone #3)	$(0) \blacktriangleright (05) \blacktriangleright (0) \blacktriangleright (2) \blacktriangleright (2) \blacktriangleright T$	21
(Add)	(1) ► (0) ► (1)→(8) ► (3) ► (0) ► WHICH ZONE		ASSIGN CODES	(0) ▶ (02) ▶ (0)-(8)	7
(F. (C))	► (1) ► (07)	39	AUTOARM ENAB	$ (1) \triangleright (0) \triangleright (1) \rightarrow (8) \triangleright (1) \triangleright T $	35
(Edit)	$(1) \triangleright (0) \triangleright (1) \rightarrow (8) \triangleright (3) \triangleright (1) \triangleright WHICH ZONE$ $\triangleright (1) \triangleright (07)$	39	AUTOARMSQUAWK	(0) ► (03) ► (0) ► T	9
24 HR BUZZER			AUTOVERFIRE	(1) - (0) - (1) - (9) - (2) - (0) - (4) - (0) - (2)	
(Add)	(1) ► (0) ► (1)→(8) ► (3) ► (0) ► WHICH ZONE	00	(Add)	$(1) \triangleright (0) \triangleright (1) \rightarrow (8) \triangleright (3) \triangleright (0) \triangleright WHICH ZONE$ $\triangleright (1) \triangleright (11)$	39
(E. (1))	► (1) ► (08)	39	(Edit)	(1) ► (0) ► (1)→(8) ► (3) ► (1) ► WHICH ZONE	
(Edit)	$(1) \triangleright (0) \triangleright (1) \rightarrow (8) \triangleright (3) \triangleright (1) \triangleright WHICH ZONE$ $\triangleright (1) \triangleright (08)$	39		► (1) ► (11)	39
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	(0) ▶ (05) ▶ (3) ▶ (14)	27	AUXILIARY DELAY	(1) = (0) = (1) = (9) = (2) = (0) = (4) = (4)	
2ND NUMBER	$(0) \blacktriangleright (05) \blacktriangleright (0) \blacktriangleright (1)$	14	(Add)	(1) ► (0) ► (1) → (8) ► (3) ► (0) ► WHICH ZONE ► (1) ► (01)	38
300 BAUD	$(0) \blacktriangleright (09) \blacktriangleright (0) \blacktriangleright (0)$	34	(Edit)	(1) ► (0) ► (1)→(8) ► (3) ► (1) ► WHICH ZONE	
3RD NUMBER	$(0) \blacktriangleright (05) \blacktriangleright (0) \blacktriangleright (2)$	14		► (1) ► (01)	38
	\-, - \-, - \ - , - \ - , -	•			

4204 MOD MAINT

4204 OPTIONS

4216 CUSTOM

4216 OPTIONS

60 Hz LINE

600 BAUD

4400 MOD MAINT

 $(0) \triangleright (05) \triangleright (3) \triangleright (11)$

 $(0)\blacktriangleright(05)\blacktriangleright(3)\blacktriangleright(12)$

 $(0) \triangleright (03) \triangleright (0) \triangleright T$

 $(0)\blacktriangleright(09)\blacktriangleright(0)\blacktriangleright(1)$

A Quick Message Numbers Page

 $(0) \triangleright (08) \triangleright (1)$

 $(0) \triangleright (08) \triangleright (3)$

 $(0) \triangleright (08) \triangleright (2)$

27

30

30

30

27

8

34

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BELL AUDIBLE	(4) - (0) - (4) - (0) - (0) - MANUCLI ZONE		(Phone #2) (Phone #3)	$(0) \triangleright (05) \triangleright (0) \triangleright (1) \triangleright (1)$ $(0) \triangleright (05) \triangleright (0) \triangleright (2) \triangleright (1)$	15 15
(Add)	$(1) \triangleright (0) \triangleright (1) \rightarrow (8) \triangleright (3) \triangleright (0) \triangleright WHICH ZONE$ $\triangleright (2) \triangleright T$	40	COMMS MISC	(0) ▶ (05) ▶ (2)	24
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, ,	▶ (2) ▶ T	40	COURTESY PULSE (SW Aux)	(0) = (05) = (11)	20
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BELL SHUT DOWN	(0) ▶ (03) ▶ (0) ▶ T	9	(Main PGM) (4204)	$(0) \triangleright (08) \triangleright (0) \triangleright (11)$ $(0) \triangleright (08) \triangleright (1) \triangleright (01) \rightarrow (16) \triangleright (1) \rightarrow (4) \triangleright (11)$	32 32
BELL SQUAWK ON	$(1) \blacktriangleright (0) \blacktriangleright (1) \rightarrow (8) \blacktriangleright (1) \blacktriangleright \top$	36	(4216 custom)	$(0) \triangleright (08) \triangleright (3) \triangleright (01) \rightarrow (16) \triangleright (11)$	32
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C	Quick Message Numbers	Page	DC INHIBIT ARM	(0) ▶ (03) ▶ (0) ▶ T	
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CHIME FOLLOWER			DEFAULT DIAL	(0) ► (05) ► (1) ► T	8 24
(SW Aux) (Main Bell)	(0) - (00) - (40)	00	DELAY HOME AWAY	(0) ► (05) ► (1) ► T	
(man ben)	(0) ► (06) ► (12) (0) ► (07) ► (12)	32 32		(1) ► (0) ► (1)→(8) ► (3) ► (0) ► WHICH ZONE	24
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, , , , , , , , , , , , , , , , , , , ,	(0) ▶ (07) ▶ (12)	32	DELAY HOME AWAY	(1) ► (0) ► (1)→(8) ► (3) ► (0) ► WHICH ZONE	24
(Main PGM) (4204) (4216 custom) CHIME FUNCTION	$\begin{array}{l} (0) \triangleright (07) \triangleright (12) \\ (0) \triangleright (08) \triangleright (0) \triangleright (12) \\ (0) \triangleright (08) \triangleright (1) \triangleright (01) \rightarrow (16) \triangleright (1) \rightarrow (4) \triangleright (12) \\ (0) \triangleright (08) \triangleright (3) \triangleright (01) \rightarrow (16) \triangleright (12) \end{array}$	32 32 32	DELAY HOME AWAY (Add) (Edit) DELAYED FIRE	(1) \triangleright (0) \triangleright (1) \rightarrow (8) \triangleright (3) \triangleright (0) \triangleright WHICH ZONE \triangleright (1) \triangleright (05) (1) \triangleright (0) \triangleright (1) \rightarrow (8) \triangleright (3) \triangleright (1) \triangleright WHICH ZONE \triangleright (1) \triangleright (05)	24 38
(Main PGM) (4204) (4216 custom)	$\begin{array}{l} (0) \triangleright (07) \triangleright (12) \\ (0) \triangleright (08) \triangleright (0) \triangleright (12) \\ (0) \triangleright (08) \triangleright (1) \triangleright (01) \rightarrow (16) \triangleright (1) \rightarrow (4) \triangleright (12) \end{array}$	32 32 32	DELAY HOME AWAY (Add) (Edit)	(1) \triangleright (0) \triangleright (1) \rightarrow (8) \triangleright (3) \triangleright (0) \triangleright WHICH ZONE \triangleright (1) \triangleright (05) (1) \triangleright (0) \triangleright (1) \rightarrow (8) \triangleright (3) \triangleright (1) \triangleright WHICH ZONE \triangleright (1) \triangleright (05) (1) \triangleright (0) \triangleright (1) \rightarrow (8) \triangleright (3) \triangleright (0) \triangleright WHICH ZONE	24 38 38
(Main PGM) (4204) (4216 custom) CHIME FUNCTION	$(0) \triangleright (07) \triangleright (12)$ $(0) \triangleright (08) \triangleright (0) \triangleright (12)$ $(0) \triangleright (08) \triangleright (1) \triangleright (01) \rightarrow (16) \triangleright (1) \rightarrow (4) \triangleright (12)$ $(0) \triangleright (08) \triangleright (3) \triangleright (01) \rightarrow (16) \triangleright (12)$ $(1) \triangleright (0) \triangleright (1) \rightarrow (8) \triangleright (3) \triangleright (0) \triangleright \text{WHICH ZONE}$	32 32 32 32	DELAY HOME AWAY (Add) (Edit) DELAYED FIRE	(1) \blacktriangleright (0) \blacktriangleright (1) \rightarrow (8) \blacktriangleright (3) \blacktriangleright (0) \blacktriangleright WHICH ZONE \blacktriangleright (1) \blacktriangleright (05) (1) \blacktriangleright (0) \blacktriangleright (1) \rightarrow (05) (1) \blacktriangleright (0) \blacktriangleright (1) \rightarrow (10)	24 38
(Main PGM) (4204) (4216 custom) CHIME FUNCTION (Add) (Edit)	$(0) \triangleright (07) \triangleright (12)$ $(0) \triangleright (08) \triangleright (0) \triangleright (12)$ $(0) \triangleright (08) \triangleright (1) \triangleright (01) \rightarrow (16) \triangleright (1) \rightarrow (4) \triangleright (12)$ $(0) \triangleright (08) \triangleright (3) \triangleright (01) \rightarrow (16) \triangleright (12)$ $(1) \triangleright (0) \triangleright (1) \rightarrow (8) \triangleright (3) \triangleright (0) \triangleright WHICH ZONE$ $ \triangleright (2) \triangleright T$ $(1) \triangleright (0) \triangleright (1) \rightarrow (8) \triangleright (3) \triangleright (1) \triangleright WHICH ZONE$ $ \triangleright (2) \triangleright T$	32 32 32 32	DELAY HOME AWAY (Add) (Edit) DELAYED FIRE (Add)	(1) \triangleright (0) \triangleright (1) \rightarrow (8) \triangleright (3) \triangleright (0) \triangleright WHICH ZONE \triangleright (1) \triangleright (05) (1) \triangleright (0) \triangleright (1) \rightarrow (8) \triangleright (3) \triangleright (1) \triangleright WHICH ZONE \triangleright (1) \triangleright (05) (1) \triangleright (0) \triangleright (1) \rightarrow (8) \triangleright (3) \triangleright (0) \triangleright WHICH ZONE	24 38 38
(Main PGM) (4204) (4216 custom) CHIME FUNCTION (Add) (Edit) CHIME PULSE	$(0) \triangleright (07) \triangleright (12)$ $(0) \triangleright (08) \triangleright (0) \triangleright (12)$ $(0) \triangleright (08) \triangleright (1) \triangleright (01) \rightarrow (16) \triangleright (1) \rightarrow (4) \triangleright (12)$ $(0) \triangleright (08) \triangleright (3) \triangleright (01) \rightarrow (16) \triangleright (12)$ $(1) \triangleright (0) \triangleright (1) \rightarrow (8) \triangleright (3) \triangleright (0) \triangleright \text{WHICH ZONE}$ $(2) \triangleright T$ $(1) \triangleright (0) \triangleright (1) \rightarrow (8) \triangleright (3) \triangleright (1) \triangleright \text{WHICH ZONE}$	32 32 32 32 32 40	DELAY HOME AWAY (Add) (Edit) DELAYED FIRE (Add)	(1) \blacktriangleright (0) \blacktriangleright (1) \blacktriangleright (8) \blacktriangleright (3) \blacktriangleright (0) \blacktriangleright WHICH ZONE \blacktriangleright (1) \blacktriangleright (05) (1) \blacktriangleright (0) \blacktriangleright (1) \blacktriangleright (8) \blacktriangleright (3) \blacktriangleright (1) \blacktriangleright WHICH ZONE \blacktriangleright (1) \blacktriangleright (05) (1) \blacktriangleright (0) \blacktriangleright (1) \blacktriangleright (8) \blacktriangleright (3) \blacktriangleright (0) \blacktriangleright WHICH ZONE \blacktriangleright (1) \blacktriangleright (10) (1) \blacktriangleright (0) \blacktriangleright (1) \blacktriangleright (8) \blacktriangleright (3) \blacktriangleright (1) \blacktriangleright WHICH ZONE	383839
(Main PGM) (4204) (4216 custom) CHIME FUNCTION (Add) (Edit) CHIME PULSE CLOSINGS	$\begin{array}{l} (0) \blacktriangleright (07) \blacktriangleright (12) \\ (0) \blacktriangleright (08) \blacktriangleright (0) \blacktriangleright (12) \\ (0) \blacktriangleright (08) \blacktriangleright (1) \blacktriangleright (01) + (16) \blacktriangleright (1) + (4) \blacktriangleright (12) \\ (0) \blacktriangleright (08) \blacktriangleright (3) \blacktriangleright (01) + (16) \blacktriangleright (12) \\ \end{array}$ $(1) \blacktriangleright (0) \blacktriangleright (1) + (8) \blacktriangleright (3) \blacktriangleright (0) \blacktriangleright \text{ WHICH ZONE} \\ \blacktriangleright (2) \blacktriangleright T \\ (1) \blacktriangleright (0) \blacktriangleright (1) + (8) \blacktriangleright (3) \blacktriangleright (1) \blacktriangleright \text{ WHICH ZONE} \\ \blacktriangleright (2) \blacktriangleright T \\ (0) \blacktriangleright (08) \blacktriangleright (4) \blacktriangleright (3) \\ (0) \blacktriangleright (05) \blacktriangleright (3) \blacktriangleright (06) \\ \end{array}$	32 32 32 32 32 40	DELAY HOME AWAY (Add) (Edit) DELAYED FIRE (Add) (Edit)	(1) \blacktriangleright (0) \blacktriangleright (1) \rightarrow (8) \blacktriangleright (3) \blacktriangleright (0) \blacktriangleright WHICH ZONE \blacktriangleright (1) \blacktriangleright (05) (1) \blacktriangleright (00) \blacktriangleright (1) \rightarrow (8) \blacktriangleright (3) \blacktriangleright (1) \blacktriangleright WHICH ZONE \blacktriangleright (1) \blacktriangleright (05) (1) \blacktriangleright (0) \blacktriangleright (1) \rightarrow (8) \blacktriangleright (3) \blacktriangleright (0) \blacktriangleright WHICH ZONE \blacktriangleright (1) \blacktriangleright (10) \blacktriangleright (1) \rightarrow (8) \blacktriangleright (3) \blacktriangleright (1) \blacktriangleright WHICH ZONE \blacktriangleright (1) \blacktriangleright (10)	38383939
(Main PGM) (4204) (4216 custom) CHIME FUNCTION (Add) (Edit) CHIME PULSE CLOSINGS CODE ASSIGNMENT	$\begin{array}{l} (0) \blacktriangleright (07) \blacktriangleright (12) \\ (0) \blacktriangleright (08) \blacktriangleright (0) \blacktriangleright (12) \\ (0) \blacktriangleright (08) \blacktriangleright (1) \blacktriangleright (01) + (16) \blacktriangleright (1) + (4) \blacktriangleright (12) \\ (0) \blacktriangleright (08) \blacktriangleright (3) \blacktriangleright (01) + (16) \blacktriangleright (12) \\ \end{array}$ $(1) \blacktriangleright (0) \blacktriangleright (1) + (8) \blacktriangleright (3) \blacktriangleright (0) \blacktriangleright \text{ WHICH ZONE} \\ \blacktriangleright (2) \blacktriangleright T \\ (1) \blacktriangleright (0) \blacktriangleright (1) + (8) \blacktriangleright (3) \blacktriangleright (1) \blacktriangleright \text{ WHICH ZONE} \\ \blacktriangleright (2) \blacktriangleright T \\ (0) \blacktriangleright (08) \blacktriangleright (4) \blacktriangleright (3) \\ (0) \blacktriangleright (05) \blacktriangleright (3) \blacktriangleright (06) \\ \end{array}$	32 32 32 32 40 40 31	DELAY HOME AWAY (Add) (Edit) DELAYED FIRE (Add) (Edit) DELETE MODULE	(1) \triangleright (0) \triangleright (1) \rightarrow (8) \triangleright (3) \triangleright (0) \triangleright WHICH ZONE \triangleright (1) \triangleright (05) (1) \triangleright (05) (1) \rightarrow (8) \triangleright (3) \triangleright (1) \triangleright WHICH ZONE \triangleright (1) \triangleright (05) (1) \triangleright (0) \triangleright (1) \rightarrow (8) \triangleright (3) \triangleright (0) \triangleright WHICH ZONE \triangleright (1) \triangleright (10) (1) \rightarrow (8) \triangleright (3) \triangleright (1) \triangleright WHICH ZONE \triangleright (1) \triangleright (10) (2) \triangleright (1)	38 38 39 39 43
(Main PGM) (4204) (4216 custom) CHIME FUNCTION (Add) (Edit) CHIME PULSE CLOSINGS CODE ASSIGNMENT COMBUS POWER	$\begin{array}{l} (0) \blacktriangleright (07) \blacktriangleright (12) \\ (0) \blacktriangleright (08) \blacktriangleright (0) \blacktriangleright (12) \\ (0) \blacktriangleright (08) \blacktriangleright (1) \blacktriangleright (01) + (16) \blacktriangleright (1) + (4) \blacktriangleright (12) \\ (0) \blacktriangleright (08) \blacktriangleright (3) \blacktriangleright (01) + (16) \blacktriangleright (12) \\ \end{array}$ $\begin{array}{l} (1) \blacktriangleright (0) \blacktriangleright (1) + (8) \blacktriangleright (3) \blacktriangleright (0) \blacktriangleright \text{ WHICH ZONE} \\ \blacktriangleright (2) \blacktriangleright T \\ \end{array}$ $\begin{array}{l} (1) \blacktriangleright (0) \blacktriangleright (1) + (8) \blacktriangleright (3) \blacktriangleright (1) \blacktriangleright \text{ WHICH ZONE} \\ \blacktriangleright (2) \blacktriangleright T \\ \end{array}$ $\begin{array}{l} (0) \blacktriangleright (08) \blacktriangleright (4) \blacktriangleright (3) \\ (0) \blacktriangleright (05) \blacktriangleright (3) \blacktriangleright (06) \\ \end{array}$ $\begin{array}{l} (0) \blacktriangleright (05) \blacktriangleright (3) \blacktriangleright (06) \\ \end{array}$	32 32 32 32 40 40 41 26 7	DELAY HOME AWAY (Add) (Edit) DELAYED FIRE (Add) (Edit) DELETE MODULE DELETE PARTITION DELETE ZONE DIAGNOSTICS	(1) ▶ (0) ▶ (1)→(8) ▶ (3) ▶ (0) ▶ WHICH ZONE ► (1) ► (05) (1) ► (05) (1) ► (0) ► (1)→(8) ► (3) ► (1) ► WHICH ZONE ► (1) ► (05) (1) ► (0) ► (1)→(8) ► (3) ► (0) ► WHICH ZONE ► (1) ► (10) (1) ► (0) ► (1)→(8) ► (3) ► (1) ► WHICH ZONE ► (1) ► (10) (2) ► (1) (1) ► (1) (1) ► (1) (1) ► (1)	38 38 39 39 43 42 41
(Main PGM) (4204) (4216 custom) CHIME FUNCTION (Add) (Edit) CHIME PULSE CLOSINGS CODE ASSIGNMENT COMBUS POWER (SW Aux) (Main Bell)	$(0) \triangleright (07) \triangleright (12)$ $(0) \triangleright (08) \triangleright (0) \triangleright (12)$ $(0) \triangleright (08) \triangleright (1) \triangleright (01) \rightarrow (16) \triangleright (1) \rightarrow (4) \triangleright (12)$ $(0) \triangleright (08) \triangleright (3) \triangleright (01) \rightarrow (16) \triangleright (12)$ $(1) \triangleright (0) \triangleright (1) \rightarrow (8) \triangleright (3) \triangleright (0) \triangleright \text{WHICH ZONE}$ $\triangleright (2) \triangleright T$ $(1) \triangleright (0) \triangleright (1) \rightarrow (8) \triangleright (3) \triangleright (1) \triangleright \text{WHICH ZONE}$ $\triangleright (2) \triangleright T$ $(0) \triangleright (08) \triangleright (4) \triangleright (3)$ $(0) \triangleright (05) \triangleright (3) \triangleright (06)$ $(0) \triangleright (02)$ $(0) \triangleright (06) \triangleright (19)$ $(0) \triangleright (07) \triangleright (19)$	32 32 32 32 40 40 31 26 7	DELAY HOME AWAY (Add) (Edit) DELAYED FIRE (Add) (Edit) DELETE MODULE DELETE PARTITION DELETE ZONE	(1) ▶ (0) ▶ (1) → (8) ▶ (3) ▶ (0) ▶ WHICH ZONE ▶ (1) ▶ (05) (1) ▶ (0) ▶ (1) → (8) ▶ (3) ▶ (1) ▶ WHICH ZONE ▶ (1) ▶ (05) (1) ▶ (0) ▶ (1) → (8) ▶ (3) ▶ (0) ▶ WHICH ZONE ▶ (1) ▶ (10) (1) ▶ (0) ▶ (1) → (8) ▶ (3) ▶ (1) ▶ WHICH ZONE ▶ (1) ▶ (10) (2) ▶ (1) (1) ▶ (1)	38 38 39 39 43 42
(Main PGM) (4204) (4216 custom) CHIME FUNCTION (Add) (Edit) CHIME PULSE CLOSINGS CODE ASSIGNMENT COMBUS POWER (SW Aux)	$\begin{array}{l} (0) \blacktriangleright (07) \blacktriangleright (12) \\ (0) \blacktriangleright (08) \blacktriangleright (0) \blacktriangleright (12) \\ (0) \blacktriangleright (08) \blacktriangleright (1) \blacktriangleright (01) + (16) \blacktriangleright (1) + (4) \blacktriangleright (12) \\ (0) \blacktriangleright (08) \blacktriangleright (3) \blacktriangleright (01) + (16) \blacktriangleright (12) \\ \end{array}$ $(1) \blacktriangleright (0) \blacktriangleright (1) + (8) \blacktriangleright (3) \blacktriangleright (0) \blacktriangleright \text{ WHICH ZONE} \\ \blacktriangleright (2) \blacktriangleright T \\ (1) \blacktriangleright (0) \blacktriangleright (1) + (8) \blacktriangleright (3) \blacktriangleright (1) \blacktriangleright \text{ WHICH ZONE} \\ \blacktriangleright (2) \blacktriangleright T \\ (0) \blacktriangleright (08) \blacktriangleright (4) \blacktriangleright (3) \\ (0) \blacktriangleright (05) \blacktriangleright (3) \blacktriangleright (06) \\ (0) \blacktriangleright (02) \\ \end{array}$	32 32 32 32 40 40 31 26 7	DELAY HOME AWAY (Add) (Edit) DELAYED FIRE (Add) (Edit) DELETE MODULE DELETE PARTITION DELETE ZONE DIAGNOSTICS (Main Menu) (Option) DIALER DIRECTION	(1) ▶ (0) ▶ (1) → (8) ▶ (3) ▶ (0) ▶ WHICH ZONE ▶ (1) ▶ (05) (1) ▶ (0) ▶ (1) → (8) ▶ (3) ▶ (1) ▶ WHICH ZONE ▶ (1) ▶ (05) (1) ▶ (0) ▶ (1) → (8) ▶ (3) ▶ (0) ▶ WHICH ZONE ▶ (1) ▶ (10) (1) ▶ (0) ▶ (1) → (8) ▶ (3) ▶ (1) ▶ WHICH ZONE ▶ (1) ▶ (10) (2) ▶ (1) (1) ▶ (1) (1) ▶ (1) (1) ▶ (0) ▶ (1) → (8) ▶ (3) ▶ (2) (4) (4) ▶ (0)	38 38 39 39 43 42 41 45
(Main PGM) (4204) (4216 custom) CHIME FUNCTION (Add) (Edit) CHIME PULSE CLOSINGS CODE ASSIGNMENT COMBUS POWER (SW Aux) (Main Bell) (Main PGM)	$(0) \triangleright (07) \triangleright (12)$ $(0) \triangleright (08) \triangleright (0) \triangleright (12)$ $(0) \triangleright (08) \triangleright (1) \triangleright (01) \rightarrow (16) \triangleright (1) \rightarrow (4) \triangleright (12)$ $(0) \triangleright (08) \triangleright (3) \triangleright (01) \rightarrow (16) \triangleright (12)$ $(1) \triangleright (0) \triangleright (1) \rightarrow (8) \triangleright (3) \triangleright (0) \triangleright \text{WHICH ZONE}$ $\triangleright (2) \triangleright T$ $(1) \triangleright (0) \triangleright (1) \rightarrow (8) \triangleright (3) \triangleright (1) \triangleright \text{WHICH ZONE}$ $\triangleright (2) \triangleright T$ $(0) \triangleright (08) \triangleright (4) \triangleright (3)$ $(0) \triangleright (05) \triangleright (3) \triangleright (06)$ $(0) \triangleright (05) \triangleright (3) \triangleright (06)$ $(0) \triangleright (06) \triangleright (19)$ $(0) \triangleright (07) \triangleright (19)$ $(0) \triangleright (08) \triangleright (0) \triangleright (19)$	32 32 32 32 40 40 31 26 7	DELAY HOME AWAY (Add) (Edit) DELAYED FIRE (Add) (Edit) DELETE MODULE DELETE PARTITION DELETE ZONE DIAGNOSTICS (Main Menu) (Option)	(1) ▶ (0) ▶ (1) → (8) ▶ (3) ▶ (0) ▶ WHICH ZONE ▶ (1) ▶ (05) (1) ▶ (0) ▶ (1) → (8) ▶ (3) ▶ (1) ▶ WHICH ZONE ▶ (1) ▶ (05) (1) ▶ (0) ▶ (1) → (8) ▶ (3) ▶ (0) ▶ WHICH ZONE ▶ (1) ▶ (10) (1) ▶ (0) ▶ (1) → (8) ▶ (3) ▶ (1) ▶ WHICH ZONE ▶ (1) ▶ (10) (2) ▶ (1) (1) ▶ (1) (1) ▶ (0) ▶ (1) → (8) ▶ (3) ▶ (2) (4) (4) ▶ (0) (0) ▶ (05) ▶ (0) ▶ (0) ▶ (2)	24 38 38 39 39 43 42 41 45 45
(Main PGM) (4204) (4216 custom) CHIME FUNCTION (Add) (Edit) CHIME PULSE CLOSINGS CODE ASSIGNMENT COMBUS POWER (SW Aux) (Main PGM) (4204) (4216 custom) COMMS ACTIVE	$(0) \triangleright (07) \triangleright (12)$ $(0) \triangleright (08) \triangleright (0) \triangleright (12)$ $(0) \triangleright (08) \triangleright (1) \triangleright (01) \rightarrow (16) \triangleright (1) \rightarrow (4) \triangleright (12)$ $(0) \triangleright (08) \triangleright (3) \triangleright (01) \rightarrow (16) \triangleright (12)$ $(1) \triangleright (0) \triangleright (1) \rightarrow (8) \triangleright (3) \triangleright (0) \triangleright WHICH ZONE$ $\triangleright (2) \triangleright T$ $(1) \triangleright (0) \triangleright (1) \rightarrow (8) \triangleright (3) \triangleright (1) \triangleright WHICH ZONE$ $\triangleright (2) \triangleright T$ $(0) \triangleright (08) \triangleright (4) \triangleright (3)$ $(0) \triangleright (05) \triangleright (3) \triangleright (06)$ $(0) \triangleright (05) \triangleright (3) \triangleright (06)$ $(0) \triangleright (06) \triangleright (19)$ $(0) \triangleright (06) \triangleright (19)$ $(0) \triangleright (08) \triangleright (0) \triangleright (19)$ $(0) \triangleright (08) \triangleright (1) \triangleright (01) \rightarrow (16) \triangleright (1) \rightarrow (4) \triangleright (19)$ $(0) \triangleright (08) \triangleright (3) \triangleright (01) \rightarrow (16) \triangleright (19)$	32 32 32 32 40 40 31 26 7 33 33 33 33 33	DELAY HOME AWAY (Add) (Edit) DELAYED FIRE (Add) (Edit) DELETE MODULE DELETE PARTITION DELETE ZONE DIAGNOSTICS (Main Menu) (Option) DIALER DIRECTION (Phone #1)	(1) ▶ (0) ▶ (1) → (8) ▶ (3) ▶ (0) ▶ WHICH ZONE ▶ (1) ▶ (05) (1) ▶ (0) ▶ (1) → (8) ▶ (3) ▶ (1) ▶ WHICH ZONE ▶ (1) ▶ (05) (1) ▶ (0) ▶ (1) → (8) ▶ (3) ▶ (0) ▶ WHICH ZONE ▶ (1) ▶ (10) (1) ▶ (0) ▶ (1) → (8) ▶ (3) ▶ (1) ▶ WHICH ZONE ▶ (1) ▶ (10) (2) ▶ (1) (1) ▶ (1) (1) ▶ (1) (1) ▶ (0) ▶ (1) → (8) ▶ (3) ▶ (2) (4) (4) ▶ (0)	38 38 39 39 43 42 41 45
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(Main PGM) (4204) (4216 custom) CHIME FUNCTION (Add) (Edit) CHIME PULSE CLOSINGS CODE ASSIGNMENT COMBUS POWER (SW Aux) (Main Bell) (Main PGM) (4204) (4216 custom) COMMS ACTIVE (SW Aux)	$\begin{array}{l} (0) \blacktriangleright (07) \blacktriangleright (12) \\ (0) \blacktriangleright (08) \blacktriangleright (0) \blacktriangleright (12) \\ (0) \blacktriangleright (08) \blacktriangleright (1) \blacktriangleright (01) \rightarrow (16) \blacktriangleright (1) \rightarrow (4) \blacktriangleright (12) \\ (0) \blacktriangleright (08) \blacktriangleright (3) \blacktriangleright (01) \rightarrow (16) \blacktriangleright (12) \\ \end{array}$ $\begin{array}{l} (1) \blacktriangleright (0) \blacktriangleright (1) \rightarrow (8) \blacktriangleright (3) \blacktriangleright (0) \blacktriangleright \text{ WHICH ZONE} \\ \blacktriangleright (2) \blacktriangleright T \\ \end{array}$ $\begin{array}{l} (1) \blacktriangleright (0) \blacktriangleright (1) \rightarrow (8) \blacktriangleright (3) \blacktriangleright (1) \blacktriangleright \text{ WHICH ZONE} \\ \blacktriangleright (2) \blacktriangleright T \\ \end{array}$ $\begin{array}{l} (1) \blacktriangleright (0) \blacktriangleright (1) \rightarrow (8) \blacktriangleright (3) \blacktriangleright (1) \blacktriangleright \text{ WHICH ZONE} \\ \blacktriangleright (2) \blacktriangleright T \\ \end{array}$ $\begin{array}{l} (0) \blacktriangleright (08) \blacktriangleright (4) \blacktriangleright (3) \\ (0) \blacktriangleright (08) \blacktriangleright (4) \blacktriangleright (3) \\ \end{array}$ $\begin{array}{l} (0) \blacktriangleright (06) \blacktriangleright (19) \\ (0) \blacktriangleright (06) \blacktriangleright (19) \\ (0) \blacktriangleright (06) \blacktriangleright (19) \\ (0) \blacktriangleright (08) \blacktriangleright (1) \blacktriangleright (01) \rightarrow (16) \blacktriangleright (1) \rightarrow (4) \blacktriangleright (19) \\ \end{array}$ $\begin{array}{l} (0) \blacktriangleright (08) \blacktriangleright (16) \\ (0) \blacktriangleright (07) \blacktriangleright (16) \\ (0) \blacktriangleright (07) \blacktriangleright (16) \\ (0) \blacktriangleright (08) \blacktriangleright (0) \blacktriangleright (16) \\ \end{array}$	32 32 32 32 40 40 31 26 7 33 33 33 33 33 33 33	DELAY HOME AWAY (Add) (Edit) DELAYED FIRE (Add) (Edit) DELETE MODULE DELETE PARTITION DELETE ZONE DIAGNOSTICS (Main Menu) (Option) DIALER DIRECTION (Phone #1) (Phone #2) (Phone #3)	(1) ▶ (0) ▶ (1) ⇒ (8) ▶ (3) ▶ (0) ▶ WHICH ZONE ▶ (1) ▶ (05) (1) ▶ (0) ▶ (1) ⇒ (8) ▶ (3) ▶ (1) ▶ WHICH ZONE ▶ (1) ▶ (05) (1) ▶ (0) ▶ (1) ⇒ (8) ▶ (3) ▶ (0) ▶ WHICH ZONE ▶ (1) ▶ (10) (1) ▶ (0) ▶ (1) ⇒ (8) ▶ (3) ▶ (1) ▶ WHICH ZONE ▶ (1) ▶ (10) (2) ▶ (1) (1) ▶ (1) (1) ▶ (1) (1) ▶ (0) ▶ (1) ⇒ (8) ▶ (3) ▶ (2) (4) (4) ▶ (0) (0) ▶ (05) ▶ (0) ▶ (0) ▶ (2) (0) ▶ (05) ▶ (0) ▶ (1) ▶ (2) (0) ▶ (05) ▶ (0) ▶ (2) ▶ (2)	38 38 39 39 43 42 41 45 45 21 21 21
(Main PGM) (4204) (4216 custom) CHIME FUNCTION (Add) (Edit) CHIME PULSE CLOSINGS CODE ASSIGNMENT COMBUS POWER (SW Aux) (Main Bell) (Main PGM) (4204) (4216 custom) COMMS ACTIVE (SW Aux) (Main Bell) (Main Bell) (Main Bell) (Main Bell) (Main PGM)	$\begin{array}{l} (0) \blacktriangleright (07) \blacktriangleright (12) \\ (0) \blacktriangleright (08) \blacktriangleright (0) \blacktriangleright (12) \\ (0) \blacktriangleright (08) \blacktriangleright (1) \blacktriangleright (01) \rightarrow (16) \blacktriangleright (1) \rightarrow (4) \blacktriangleright (12) \\ (0) \blacktriangleright (08) \blacktriangleright (3) \blacktriangleright (01) \rightarrow (16) \blacktriangleright (12) \\ \end{array}$ $\begin{array}{l} (1) \blacktriangleright (0) \blacktriangleright (1) \rightarrow (8) \blacktriangleright (3) \blacktriangleright (0) \blacktriangleright \text{ WHICH ZONE} \\ \blacktriangleright (2) \blacktriangleright T \\ \end{array}$ $\begin{array}{l} (1) \blacktriangleright (0) \blacktriangleright (1) \rightarrow (8) \blacktriangleright (3) \blacktriangleright (1) \blacktriangleright \text{ WHICH ZONE} \\ \blacktriangleright (2) \blacktriangleright T \\ \end{array}$ $\begin{array}{l} (0) \blacktriangleright (08) \blacktriangleright (4) \blacktriangleright (3) \\ (0) \blacktriangleright (08) \blacktriangleright (4) \blacktriangleright (3) \\ \end{array}$ $\begin{array}{l} (0) \blacktriangleright (05) \blacktriangleright (3) \blacktriangleright (06) \\ \end{array}$ $\begin{array}{l} (0) \blacktriangleright (06) \blacktriangleright (19) \\ (0) \blacktriangleright (07) \blacktriangleright (19) \\ (0) \blacktriangleright (08) \blacktriangleright (1) \blacktriangleright (19) \\ (0) \blacktriangleright (08) \blacktriangleright (1) \blacktriangleright (19) \\ (0) \blacktriangleright (08) \blacktriangleright (3) \blacktriangleright (01) \rightarrow (16) \blacktriangleright (1) \rightarrow (4) \blacktriangleright (19) \\ \end{array}$ $\begin{array}{l} (0) \blacktriangleright (06) \blacktriangleright (16) \\ (0) \blacktriangleright (07) \blacktriangleright (16) \\ \end{array}$	32 32 32 32 40 40 40 31 26 7 33 33 33 33 33 33	DELAY HOME AWAY (Add) (Edit) DELAYED FIRE (Add) (Edit) DELETE MODULE DELETE PARTITION DELETE ZONE DIAGNOSTICS (Main Menu) (Option) DIALER DIRECTION (Phone #1) (Phone #2) (Phone #3) DISABLE LOCKOUT	(1) ▶ (0) ▶ (1) → (8) ▶ (3) ▶ (0) ▶ WHICH ZONE ▶ (1) ▶ (05) (1) ▶ (0) ▶ (1) → (8) ▶ (3) ▶ (1) ▶ WHICH ZONE ▶ (1) ▶ (05) (1) ▶ (0) ▶ (1) → (8) ▶ (3) ▶ (0) ▶ WHICH ZONE ▶ (1) ▶ (10) (1) ▶ (0) ▶ (1) → (8) ▶ (3) ▶ (1) ▶ WHICH ZONE ▶ (1) ▶ (10) (2) ▶ (1) (1) ▶ (1) (1) ▶ (0) ▶ (1) → (8) ▶ (3) ▶ (2) (4) (4) ▶ (0) (0) ▶ (05) ▶ (0) ▶ (0) ▶ (2) (0) ▶ (05) ▶ (0) ▶ (1) ▶ (2) (0) ▶ (05) ▶ (0) ▶ (2) ▶ (2) (0) ▶ (00) ▶ (3) ▶ (2)	38 38 39 39 43 42 41 45 45 21 21 21 5

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DISPLAY CŁOCK	$(1) \blacktriangleright (0) \blacktriangleright (1) \rightarrow (8) \blacktriangleright (1) \blacktriangleright \top$	3 5	FORMATS		
DLS CALLBACK	(0) ▶ (04) ▶ (0) ▶ T	12	(Phone #1) (Phone #2)	$(0) \triangleright (05) \triangleright (0) \triangleright (0) \triangleright (1) \triangleright (00) \rightarrow (17)$ $(0) \triangleright (05) \triangleright (0) \triangleright (1) \triangleright (1) \triangleright (00) \rightarrow (17)$	15 15
DLS REPORT CODES	(0) ▶ (04) ▶ (7)	13	(Phone #3)	$(0) \triangleright (05) \triangleright (0) \triangleright (2) \triangleright (1) \triangleright (00) \rightarrow (17)$	15
DLS SECTION	(0) ▶ (04)	12	FROM WHICH PARTI		
DLS TOGGLES	(0) ▶ (04) ▶ (0)	12		(1) ► (2) ► (1)→(8)	42
DOUBLE CALL	(0) ▶ (04) ▶ (0) ▶ T	12	FTC AUD BELL	(0) ► (05) ► (1) ► T	23
DTMF ATTEMPTS	(0) ▶ (05) ▶ (2) ▶ (0)	24			
DTMF DIALING	(0) ▶ (05) ▶ (1) ▶ T	22			
			G information	Quick Message Numbers	Page
E HOW OR	Quick Message Numbers	Page	GROUND START (SW Aux) (Main Bell) (Main PGM)	$(0) \triangleright (06) \triangleright (17)$ $(0) \triangleright (07) \triangleright (17)$ $(0) \triangleright (08) \triangleright (0) \triangleright (17)$	33 33 33
EDIT ZONE	$(1) \blacktriangleright (0) \blacktriangleright (1) \rightarrow (8) \blacktriangleright (3) \blacktriangleright (1)$	37	(4204) (4216 custom)	$(0) \triangleright (08) \triangleright (1) \triangleright (01) \rightarrow (16) \triangleright (1) \rightarrow (4) \triangleright (17)$ $(0) \triangleright (08) \triangleright (3) \triangleright (01) \rightarrow (16) \triangleright (17)$	33 33
ENABLE LOCKOUT	(0) ► (00) ► (3) ► (0)	5	(PGM Pulse Time)	$(0) \blacktriangleright (08) \blacktriangleright (4) \blacktriangleright (2)$	31
ENROLL MODULE	(2) ▶ (0)	43			
ENT HEX ADDRESS	(4) ► (1) ► T	45			
ENTRY DELAY	$(1) \blacktriangleright (0) \blacktriangleright (1) \rightarrow (8) \blacktriangleright (2) \blacktriangleright (0)$	36	H ()	Quick Message Numbers	Page
EUROPE DIAL	(0) ► (05) ► (1) ► T	24			
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EVENT MESSAGES	(0) ▶ (01) ▶ (1)	6	HANDSHAKE OFF	(0) ► (09) ► (1) ► T	34
EXIT DELAY	$(1) \blacktriangleright (0) \blacktriangleright (1) \rightarrow (8) \blacktriangleright (2) \blacktriangleright (1)$	36			
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FACTORY DEFAULT	(4) ▶ (3)	45	INSTALLER OPTS	(0) ▶ (00)	5
FAIL TO ARM	$(4) \triangleright (3)$ $(0) \triangleright (01) \triangleright (1) \triangleright (0)$	45 6	INSTANT		
FAILURE TO COMM	(0) = (01) = (1) = (0)	O	(Add)	(1) \triangleright (0) \triangleright (1) \rightarrow (8) \triangleright (3) \triangleright (0) \triangleright WHICH ZONE \triangleright (1) \triangleright (02)	38
(SW Aux)	(0) ► (06) ► (15)	33	(Edit)	(1) ► (0) ► (1)→(8) ► (3) ► (1) ► WHICH ZONE	
(Main Bell) (Main PGM)	$(0) \triangleright (07) \triangleright (15)$ $(0) \triangleright (08) \triangleright (0) \triangleright (15)$	33 33		▶ (1) ▶ (02)	38
(4204) (4216 custom)	$(0) \triangleright (08) \triangleright (1) \triangleright (01) \rightarrow (16) \triangleright (1) \rightarrow (4) \triangleright (15)$ $(0) \triangleright (08) \triangleright (3) \triangleright (01) \rightarrow (16) \triangleright (15)$	33 33	INT HOME AWAY (Add)	(1) ▶ (0) ▶ (1)→(8) ▶ (3) ▶ (0) ▶ WHICH ZONE	
FIRE AND BURG	(0) = (00) = (0) = (0.1) = (10)	•	(200)	► (1) ► (04)	38
(SW Aux)	(0) ► (06) ► (00)	32	(Edit)	(1) ► (0) ► (1)→(8) ► (3) ► (1) ► WHICH ZONE	
(Main Bell) (Main PGM)	$(0) \triangleright (07) \triangleright (00)$ $(0) \triangleright (08) \triangleright (0) \triangleright (00)$	32 32		▶ (1) ▶ (04)	38
(4204) (4216 custom)	$(0) \blacktriangleright (08) \blacktriangleright (1) \blacktriangleright (01) \rightarrow (16) \blacktriangleright (1) \rightarrow (4) \blacktriangleright (00)$ $(0) \blacktriangleright (08) \blacktriangleright (3) \blacktriangleright (01) \rightarrow (16) \blacktriangleright (00)$	32 32	INTERIOR (Add)	(1) ► (0) ► (1)→(8) ► (3) ► (0) ► WHICH ZONE	
FIRE ONLY	(0) = (00) = (01) = (10) = (00)	JŁ	,,	▶ (1) ▶ (03)	38
(SW Aux)	(0) ► (06) ► (04)	32	(Edit)	(1) \triangleright (0) \triangleright (1) \rightarrow (8) \triangleright (3) \triangleright (1) \triangleright WHICH ZONE	20
(Main Bell) (Main PGM)	$(0) \triangleright (07) \triangleright (04)$ $(0) \triangleright (08) \triangleright (0) \triangleright (04)$	32 32	INV BURG ONLY	► (1) ► (03)	38
(4204)	$(0) \triangleright (08) \triangleright (1) \triangleright (01) \rightarrow (16) \triangleright (1) \rightarrow (4) \triangleright (04)$ $(0) \triangleright (08) \triangleright (3) \triangleright (01) \rightarrow (16) \triangleright (04)$	32 32	(SW Aux)	(0) ▶ (06) ▶ (03)	32
(4216 custom) FOLLOW 1-16		30	(Main Bell) (Main PGM)	$(0) \triangleright (07) \triangleright (03)$ $(0) \triangleright (08) \triangleright (0) \triangleright (03)$	32 32
FOLLOWS + ALARMS	$(0) \triangleright (08) \triangleright (2) \triangleright (1) \rightarrow (8) \triangleright (09)$ $(0) \triangleright (03) \triangleright (03) \triangleright (3) \triangleright (3) \triangleright (3)$	9	(4204)	$(0) \triangleright (08) \triangleright (1) \triangleright (01) \rightarrow (16) \triangleright (1) \rightarrow (4) \triangleright (03)$	32
	(0) - (03) - (0) - (0)	3	(4216 custom)	$(0) \triangleright (08) \triangleright (3) \triangleright (01) \rightarrow (16) \triangleright (03)$	32
FORCE ARM (Add)	(1) \blacktriangleright (0) \blacktriangleright (1) \rightarrow (8) \blacktriangleright (3) \blacktriangleright (0) \blacktriangleright WHICH ZONE \blacktriangleright (2) \blacktriangleright T	40	INV FIRE ONLY (SW Aux) (Main Bell)	(0) ► (06) ► (05) (0) ► (07) ► (05)	32 32
(Edit)	$(1) \triangleright (0) \triangleright (1) \rightarrow (8) \triangleright (3) \triangleright (1) \triangleright WHICH ZONE$ $\triangleright (2) \triangleright T$	40	(Main PGM) (4204)	$(0) \triangleright (08) \triangleright (0) \triangleright (05)$ $(0) \triangleright (08) \triangleright (1) \triangleright (01) \rightarrow (16) \triangleright (1) \rightarrow (4) \triangleright (05)$ $(0) \triangleright (08) \triangleright (2) \triangleright (04) \rightarrow (05)$	32 32
FORCED ANSWER	• •		(4216 custom)	$(0) \triangleright (08) \triangleright (3) \triangleright (01) \rightarrow (16) \triangleright (05)$	32
(Add)	(1) ► (0) ► (1)→(8) ► (3) ► (0) ► WHICH ZONE	30	INV FIRE/BURG (SW Aux)	(0) ▶ (06) ▶ (01)	32
(Falis)	► (1) ► (15)	39	(Main Bell) (Main PGM)	$(0) \blacktriangleright (07) \blacktriangleright (01)$ $(0) \blacktriangleright (08) \blacktriangleright (0) \blacktriangleright (01)$	32 32
(Edit)	$(1) \triangleright (0) \triangleright (1) \rightarrow (8) \triangleright (3) \triangleright (1) \triangleright WHICH ZONE$ $\triangleright (1) \triangleright (15)$	39	(4204)	$(0) \triangleright (08) \triangleright (1) \triangleright (01) \rightarrow (16) \triangleright (1) \rightarrow (4) \triangleright (01)$	32
			(4216 custom)	$(0) \triangleright (08) \triangleright (3) \triangleright (01) \rightarrow (16) \triangleright (01)$	32

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(4204) (4216 custom)	$(0) \triangleright (08) \triangleright (1) \triangleright (01) \rightarrow (16) \triangleright (1) \rightarrow (4) \triangleright (18)$ $(0) \triangleright (08) \triangleright (3) \triangleright (01) \rightarrow (16) \triangleright (18)$	33 33	(Edit)		35
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MAINTAINED ARM			(SW Aux)	(0) ▶ (06) ▶ (00)-(08)	28
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MISC OPENINGS	(0) ▶ (05) ▶ (3) ▶ (09)	26	(4216 custom)	$(0) \blacktriangleright (08) \blacktriangleright (3) \blacktriangleright (01) \rightarrow (16) \blacktriangleright (09) - (12), (14)$	30
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(Enroll) (Delete)	$(2) \triangleright (0) \triangleright (2)$ $(2) \triangleright (1) \triangleright (2)$	43	, ,	► (3) ► (T)	40
(Confirm) PC4204 4 O/P	$(2) \blacktriangleright (2) \blacktriangleright (2)$	43	(Edit)	$(1) \triangleright (0) \triangleright (1) \rightarrow (8) \triangleright (3) \triangleright (1) \triangleright WHICH ZONE$ $\triangleright (3) \triangleright (T)$	40
(Alarm)	$(0) \triangleright (05) \triangleright (3) \triangleright (03) \triangleright (4)$	26	RESTORE ON BTO	(0) ▶ (05) ▶ (1) ▶ T	22
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(Delete)	$(2) \blacktriangleright (1) \blacktriangleright (4)$	43 43	RINGBACK	(0) ▶ (05) ▶ (1) ▶ T	23
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(Restore) (Enroll)	$(0) \blacktriangleright (05) \blacktriangleright (3) \blacktriangleright (04) \blacktriangleright (3)$ $(2) \blacktriangleright (0) \blacktriangleright (3)$	26 43			
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(Restore)	$(0) \blacktriangleright (05) \blacktriangleright (3) \blacktriangleright (04) \blacktriangleright (1)$	26	SELECT PARTITION	(2) ▶(0) ▶(0) ▶ PRESS ANY KEY ON DESIRED UNI	
(Enroli) (Delete)	$(2) \triangleright (0) \triangleright (1)$ $(2) \triangleright (1) \triangleright (1)$	43 43		▶ (1)→(8)	43
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PERIODIC TX?	(0) ► (05) ► (1) ► T	23	(Main PGM) (4204)	$(0) \triangleright (08) \triangleright (0) \triangleright (07)$ $(0) \triangleright (08) \triangleright (1) \triangleright (01) \rightarrow (16) \triangleright (1) \rightarrow (4) \triangleright (07)$	32 32
PGM 2ND MAS COD	E(0) ▶ (00) ▶ (2)	5	(4216 custom)	$(0) \triangleright (08) \triangleright (3) \triangleright (01) \rightarrow (16) \triangleright (07)$	32
PGM GRAND MASTER	R (0) ► (00) ► (1)	5	SET 24HR TIME	(0) (0) (0) (1)	
PGM INST CODE	(0) ▶ (00) ▶ (0)	5	(Clock) (Download)	$(0) \triangleright (03) \triangleright (3) \triangleright (0) \triangleright (1)$ $(0) \triangleright (04) \triangleright (1) \triangleright (1)$	11 13
PGM OUTPUTS	(0) ▶ (08)	3	(Test TX)	$(0) \blacktriangleright (05) \blacktriangleright (2) \blacktriangleright (4) \blacktriangleright (1)$	25
PGM PULSE TIMES	(0) ▶ (08) ▶ (4)	31	SET CYCLE DAYS (Download)	(0) ► (04) ► (1) ► (0)	13
PGM TEL NUMBER			(Test TX)	$(0) \triangleright (04) \triangleright (1) \triangleright (0)$ $(0) \triangleright (05) \triangleright (2) \triangleright (4) \triangleright (0)$	25
(Phone #1) (Phone #2)	$(0) \triangleright (05) \triangleright (0) \triangleright (0) \triangleright (0)$ $(0) \triangleright (05) \triangleright (0) \triangleright (1) \triangleright (0)$	14 14	SET DATE	$(0) \blacktriangleright (03) \blacktriangleright (3) \blacktriangleright (0) \blacktriangleright (0)$	11
(Phone #3)	$(0) \blacktriangleright (05) \blacktriangleright (0) \blacktriangleright (2) \blacktriangleright (0)$	14	SHUT DOWN 24HRS	(0) ▶ (05) ▶ (1) ▶ T	22
PH 1-2 BACKUP	(0) ► (05) ► (1) ► T	24	STANDARD DELAY		
PH 1-3 BACKUP	$(0) \blacktriangleright (05) \blacktriangleright (1) \blacktriangleright T$	24	(Add)	$(1) \triangleright (0) \triangleright (1) \rightarrow (8) \triangleright (3) \triangleright (0) \triangleright WHICH ZONE$ $\triangleright (1) \triangleright (00)$	38
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PHONE NUMBER	(0) ▶ (04) ▶ (2)	13	(22.1)	► (1) ► (00)	38
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	(4) ► (3) ► T	4 5	(Add)	(1) \triangleright (0) \triangleright (1)→(8) \triangleright (3) \triangleright (0) \triangleright WHICH ZONE \triangleright (1) \triangleright (09)	39
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PRN ENTIRE BUFF	(3) ▶ (0)	44	SWGR SHUT DOWN (Add)	$(1) \triangleright (0) \triangleright (1) \rightarrow (8) \triangleright (3) \triangleright (0) \triangleright WHICH ZONE$ $\triangleright (2) \triangleright (T)$	40
			(Edit)	(1) ▶ (0) ▶ (1)→(8) ▶ (3) ▶ (1) ▶ WHICH ZONE ▶ (2) ▶ (T)	40
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READY STATUS	(0) (00) (00)	00	SYS MAS CODES	(0) ► (02) ► (0)	7
(SW Aux) (Main Bell)	(0) ► (06) ► (20) (0) ► (07) ► (20)	33 33	SYS TOGGLE OPT	(0) ► (03) ► (0)	8
(Main PGM) (4204)	$(0) \triangleright (08) \triangleright (0) \triangleright (20)$ $(0) \triangleright (08) \triangleright (1) \triangleright (01) \rightarrow (16) \triangleright (1) \rightarrow (4) \triangleright (20)$	33 33	SYSTEM AREA	(0)	3
(4204) (4216 custom)	$(0) \blacktriangleright (08) \blacktriangleright (1) \blacktriangleright (01) \rightarrow (16) \blacktriangleright (1) \rightarrow (4) \blacktriangleright (20)$ $(0) \blacktriangleright (08) \blacktriangleright (3) \blacktriangleright (01) \rightarrow (16) \blacktriangleright (20)$	33	SYSTEM CLOCK	• •	
REP CODES	•			(0) ► (03) ► (3) ► (0) (0) ► (05) ► (0) ► (3)	11
(Add) (Edit)	(1) \blacktriangleright (0) \blacktriangleright (1) \rightarrow (8) \blacktriangleright (3) \blacktriangleright (0) \blacktriangleright WHICH ZONE \blacktriangleright (3) (1) \blacktriangleright (0) \blacktriangleright (1) \rightarrow (8) \blacktriangleright (3) \blacktriangleright (1) \blacktriangleright WHICH ZONE \blacktriangleright (3)		SYSTEM ID CODE	(0) ► (05) ► (0) ► (3)	21
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(SW Aux) (Main Bell) (Main PGM)	$(0) \triangleright (06) \triangleright (14)$ $(0) \triangleright (07) \triangleright (14)$ $(0) \triangleright (08) \triangleright (0) \triangleright (14)$	33 33 33	WHICH 4216	$(0) \triangleright (08) \triangleright (2) \triangleright (1) \rightarrow (9)$	30
(4204) (4216 custom)	$(0) \triangleright (08) \triangleright (1) \triangleright (01) \rightarrow (16) \triangleright (1) \rightarrow (4) \triangleright (14)$ $(0) \triangleright (08) \triangleright (3) \triangleright (01) \rightarrow (16) \triangleright (14)$	33 33	WHICH OUTPUT (4204) (4216 custom)	$(0) \blacktriangleright (08) \blacktriangleright (1) \blacktriangleright (01) \rightarrow (16) \blacktriangleright (1) \rightarrow (4)$ $(0) \blacktriangleright (08) \blacktriangleright (3) \blacktriangleright (01) \rightarrow (16)$	30 30
TLM + ALARM AUD	(0) ▶ (05) ▶ (1) ▶ T	23	WHICH PARTITION		
TLM AUD BELL	(0) ► (05) ► (1) ► T	23	(Add) (Delete)	$(1) \triangleright (0) \triangleright (1) \rightarrow (8)$ $(1) \triangleright (1) \triangleright (1) \rightarrow (8)$	35 35
TLM ENABLED	(0) ► (05) ► (1) ► T	23	WHICH ZONE ?	(1) = (1) = (1) = (0)	55
TLM ONLY (SW Aux) (Main Bell) (Main PGM) (4204) (4216 custom)	$ \begin{array}{l} (0) \blacktriangleright (06) \blacktriangleright (13) \\ (0) \blacktriangleright (07) \blacktriangleright (13) \\ (0) \blacktriangleright (08) \blacktriangleright (0) \blacktriangleright (13) \\ (0) \blacktriangleright (08) \blacktriangleright (1) \blacktriangleright (01) \Rightarrow (16) \blacktriangleright (1) \Rightarrow (4) \blacktriangleright (13) \\ (0) \blacktriangleright (08) \blacktriangleright (3) \blacktriangleright (01) \Rightarrow (16) \blacktriangleright (13) \\ \end{array} $	33 33 33 33 33	(Add) (Edit) (Delete)	$ \begin{array}{c} (1) \blacktriangleright (0) \blacktriangleright (1) \rightarrow (8) \blacktriangleright (3) \blacktriangleright (0) \\ (1) \blacktriangleright (0) \blacktriangleright (1) \rightarrow (8) \blacktriangleright (3) \blacktriangleright (1) \\ (1) \blacktriangleright (0) \blacktriangleright (1) \rightarrow (8) \blacktriangleright (3) \blacktriangleright (2) \blacktriangleright (001) \rightarrow (128) \\ \end{array} $	37 37 41
TO WHICH PARTITIC	on ? (1) ▶ (2) ▶ (1)→(8) ▶ (1)→(8)	42	X	Quick Message Numbers F	age
TOTAL BAD CODES	(0) ▶ (03) ▶ (2) ▶ (0)	11	VIAL TIMEDACE	(0) > (02) > (0) > T	0
TROUBLE OUTPUT (SW Aux) (Main Bell) (Main PGM) (4204) (4216 custom)	$ (0) \blacktriangleright (06) \blacktriangleright (10) (0) \blacktriangleright (07) \blacktriangleright (10) (0) \blacktriangleright (08) \blacktriangleright (0) \blacktriangleright (10) (0) \blacktriangleright (08) \blacktriangleright (1) \blacktriangleright (01) \rightarrow (16) \blacktriangleright (1) \rightarrow (4) \blacktriangleright (10) (0) \blacktriangleright (08) \blacktriangleright (3) \blacktriangleright (01) \rightarrow (16) \blacktriangleright (10) (10) \blacktriangleright (08) \blacktriangleright (3) \blacktriangleright (01) \rightarrow (16) \blacktriangleright (10) $	32 32 32 32 32	XTAL TIMEBASE	(0) ▶ (03) ▶ (0) ▶ T Quick Message Numbers	8 Page
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(Lun)	► (2) ► (T)	40	(Main PGM) (4204) (4216 custom)	$\begin{array}{l} (0) \triangleright (08) \triangleright (0) \triangleright (21) \\ (0) \triangleright (08) \triangleright (1) \triangleright (01) \rightarrow (16) \triangleright (1) \rightarrow (4) \triangleright (21) \\ (0) \triangleright (08) \triangleright (3) \triangleright (01) \rightarrow (16) \triangleright (21) \end{array}$	33 33 33
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APPENDIX A

List of Available ASCII Characters

032	5	1 064	F' 080	••• 096	F ⁻	160	176	. 7	208	!! 224	‡ 1
033	1	H 065	Q	.	113	161	7	;	209	225	241
034	050	E	082	5	 	Г	-1 *	194	210	F : 226	1
# 035	051	C . 067	5	 .	: 115	. 163	179	T	=	Ξ. 227	24 3
‡	4	D 1	T	<u>급</u>	† .	164	<u>T</u>	J. 196	†• 212	 - 228	244
037	5	E 069	085	101	117	# 165	清 181	.+	<u>]</u>	5	245
&: 038	5	F 070	1,1 086	† *	I, I 118	166	力 182	198	214	; 230	≟ 246
039	055	G	[] 087	103	 119	 167	‡ 183	199	215	_ 231	T 247
040	056	H	088	-1 104	120	.1	. 7	÷ .	216	. , , 232	248
041	9	I	1.1 089	i 105	121	169	້ 185	201] 217	-1 233	249
:+: 042	058	. 074	090	.] 106	122	T	186	i i 202	L. • 218	.j 234	∓ 250
+ 043	. 059	075	C 091	k: 107	123	7 171	# 187	203	219	:: 235	5 251
7 044	060	 076	¥	108	124	172	=_1 188	7 204	7 220	‡. 236	円 252
 045	— 061	[1]] 093	[i] 109	125	그 173	189	205	" 221	± 237	<u>÷</u> 253
= 046	062	1-1 078	. ~. 094	† 1	÷ 126	3	190	206	• .• 222	1 71 238	254
.*** 047	063	1 079	095	111	127	175	191	207	223	239	255

APPENDIX B

List of Available Library Words

000 BLANK LABEL	037 "CELLAR"	074 "ENTRANCE"	111 "JANITOR"
001 "1ST"	038 "CENTRE"	075 "ENTRY"	112 "KEY"
002 "2ND"	039 "CHAMBER"	076 "EXIT"	113 "KITCHEN"
003 "3RD"	040 "CHIMNEY"	077 "EXTERNAL"	114 "LAB"
004 "4TH"	041 "CHINA"	078 "FACTORY"	115 "LAUNDRY"
005 "5TH"	042 "CHUTE"	079 "FAMILY"	116 "LEFT"
006 "ACCESS"	043 "CLOSET"	080 "FENCE"	117 "LIFT"
007 "AMBULANCE"	044 "COLD"	081 "FIELD"	118 "LIGHT"
008 "APARTMENT"	045 "COMPUTER"	082 "FIRE"	119 "LINES"
009 "ATRIUM"	046 "CONDO"	083 "FLOOD"	120 "LIQUOR"
010 "ATTIC"	047 "CONTACT"	084 "FLOOR"	121 "LIVING
011 "BABY"	048 "COPIER"	085 "FOIL"	122 "LOBBY"
012 "BACK"	049 "CORRIDOR"	086 "FORCE"	123 "LOFT"
013 "BALCONY"	050 "CORNER"	087 "FOYER"	124 "LOOP"
014 "BAR"	051 "CRAWL"	088 "FRONT"	125 "LOT"
015 "BARN"	052 "DARK"	089 "FULL"	126 "LOW"
016 "BASEMENT"	053 "DECK"	090 "FURNACE"	127 "LUNCH"
017 "BATHROOM"	054 "DEN"	091 "FUSE"	128 "MACHINE"
018 "BAY"	055 "DESK"	092 "GARAGE"	129 "MAIL"
019 "BEAM"	056 "DETECTOR"	093 "GAS"	130 "MANAGER"
020 "BEDROOM"	057 "DEVICE"	094 "GATES"	131 "MASTER"
021 "BELL"	058 "DINING"	095 "GLASS"	132 "MEDICAL"
022 "BOILER"	059 "DISH"	096 "GROUP"	133 "MEETING"
023 "BOTTOM"	060 "DISPLAY"	097 "GUARD"	134 "MIDDLE"
024 "BOX"	061 "DOOR"	098 "GUEST"	135 "MODULE"
025 "BREAK"	062 "DOORBELL"	099 "GUNS"	136 "MOTION"
026 "BROKEN"	063 "DOWNSTAIRS"	100 "GYM"	137 "N E"
027 "BURGLARY"	064 "DRAWER"	101 "HALLWAY"	138 "N W"
028 "CABINET"	065 "DRIVEWAY"	102 "HEAT"	139 "NORTH"
029 "CAFE"	066 "DRY"	103 "HOSE"	140 "NURSERY"
030 "CAGE"	067 "DUCTS"	104 "HOT"	141 "OFFICE"
031 "CAMERA"	068 "DUPLEX"	105 "HOUSE"	142 "OUTSIDE"
032 "CARPORT"	069 "EAST"	106 "HUMIDITY"	143 "OVER"
033 "CASH"	070 "ELECTRIC"	107 "INNER"	144 "OVERFLOW"
034 "CASHIER"	071 "ELEVATOR"	108 "INSIDE"	145 "OVERHEAD"
035 "CEILING"	072 "EMPTY"	109 "INTERCOM"	146 "PAD"
036 "CELL"	073 "EMERGENCY"	110 "INTERNAL"	147 "PANEL"

NOTE: 000 is a blank label for the "2ND" word, and is 'Zone XXX' for the "1ST" word.

440 ((5) 441) (1)			
148 "PANIC"	167 "REC"	186 "SOLAR"	205 "UNIT"
149 "PARKING"	168 "REGISTER"	187 "SOLARIUM"	206 "UPSTAIRS"
150 "PASSIVE"	169 "RIGHT"	188 "SOUTH"	207 "UTILITY"
151 "PATIO"	170 "ROOF"	189 "SPACE" *	208 "VAULT"
152 "PHONE"	171 "ROOM"	190 "SPARE"	209 "VOLTAGE"
153 "PHOTO"	172 "ROOT"	191 "SPRINKLER"	210 "WAITING"
154 "PIPES"	173 "S E"	192 "STABLE"	211 "WALKWAY"
155 "PIR	174 "S W"	193 "STAIRS"	212 "WAREHOUSE"
156 "PLACE"	175 "SAFE"	194 "STORAGE"	213 "WATER"
157 "PLATE"	176 "SCREEN"	195 "STORE"	214 "WELL"
158 "PLAY"	177 "SENSOR"	196 "STRIKE"	215 "WEST"
159 "POLICE"	178 "SHED"	197 "STROBE"	216 "WINDOW"
160 "POOL"	179 "SHELF"	198 "STUDY"	217 "WINE"
161 "PORCH"	180 "SHIPPING"	199 "TABLE"	218 "WING"
162 "POWER"	181 "SHOP"	200 "TAMPER"	219 "WIRE"
163 "PREMISE"	182 "SIDE"	201 "TEMP"	220 "WIRELESS"
164 "PRESSURE"	183 "SIREN"	202 "TOOLS"	221 "WORK"
165 "RADIATOR"	184 "SLIDING"	203 "TOP"	222 "WORKSHOP"
166 "REAR"	185 "SMOKE"	204 "UNDERGND"	223 "YARD"
Custom Zone ID			
224 "	"	240 "	, , , , , , , , , , , , , , , , , , ,
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224 "	"		"
224 "	"	241 "	
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224 "	· · · · · · · · · · · · · · · · · · ·	241 "	

List of Diagnostics

E = Communication error

T = Tamper open

LV = Low voltage to module

Indicated # Number	For Future Use
1	
2	
3	
4	
5	
6	
7	
8	

Indicated Number	LCD4500 Module#
9	1
10	2
11	3
12	4
13	5
14	6
15	7
16	8
17	9
18	10
19	11
20	12
21	13
22	14
23	15
24	16

Indicated	PC4400 RS-232
Number	Module #
25	1

Indicat Numb	
26	1
27	2
28	3
29	4
30	5
31	6
32	7
33	8
34	9
35	10
36	11
37	12
38	13
39	14
40	For future use 15
41	For future use 16

O/D
O/P ∍#

Indicated Number	PC4204 O/P Module #
51	1
52	2
53	3
54	4
55	5
56	6
57	7
58	8
59	9
60	10
61	11
62	12
63	13
64	14
65	15
66	16