GENESYS 824
INSTALLER PROGRAMMING MANUAL

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HOW TO ENTER INSTALLERS PROGRAM MODE

ENTERING PROGRAM MOOE

The installers PIN IS required to access the Installers program. The Installers PIN is Preset from **the factory as (9999)** and may be changed in Location 78. Care must be taken when changing Installers P!N. If the code is lost. the panel must be returned to the factory.

To **enter Program Mode:**

Depress **[Installer** PIN] + [^] + [7]. The LCD shculc! now display the abbreviation (PRG.). You are now in program mode.

MOVING WITHIN INSTALLERS PROGRAM MODE

Once within the Installers program mode. movement is achieved by se!ecting specific Memory Locations and going to those locations. Each Memory Location is identified with a two-digit number. Entering that number at the (PRG.) prompt will advance you to that specific location and display any memory within that field.

To access a Sub-Location (example. 56B), enter the two digit location number and press the [^] button until the appropriate sub-location is displayed. To move back to a previous Sub Location within that memory location. press [STAY].

Once within the field changes can be made by either:

A) Entering the appropriate two digit number or.

B) toggling on or off status indicators located along the top and bottom of the aisplay. Example: Depressing the [1] button will cause the "AWAY" LCD to turn on or off. And pressing the [4] button will cause the "BYPASS" LCD to turn on or off.

-When the desired changes are made. simply depress the [^] button to lock the information in the EE prom and advance to the next memory field.

-To exit a specific Program Location. press the [#] button This will exit ycu back to the PRG.. prompt When all changes have been completed. depress the [#] button twice to exit out of Installer Program mode.

CUSTOM ZONE PROGRAMMING

All of the GENESYS 824 zones can be custom prcgrammed to perform any number of specific functions. For each zone you will be making several decisions about the functions it will perform. The choices are as follows.

ZONE TYPE * Check Programming Sheet for Defaults.

The first two-digit entry defines the Zone Type as well as the l o o p Type.

The first digit defines the Zone Type. The choices are as follows:

0 = ENTRY/EXIT (1) - Used for Primary Entry/Exit Delay. Corresponds to programming in Location 57 and Sub Location 57B.

1 = ENTRY/EXIT (2) - Used for Secondary Entry/Exit Delay. This designation is used when a special deiay IS required, Used for applications such as Entrance or Exit through Garages. Gates or Outdoor Detectors. Corresponds to programming in Location 57A and Sub Location 57C.

2 = PERIMETER. INSTANT - Used for creating an instant alarm when the system is armed regardless of the mode selected.

3 = INTERIOR, TYPE 1- Used For interior zone(s) which operate as Follower zone(s) in AWAY and STAY modes and become instant in INSTANT mode.

4 = INTERIOR, TYPE 2 - Used For interior zone(s) which operate as Follower zone(s) in AWAY and STAY modes and are bypassed in INSTANT mode.

5 = INTERIOR, NPE 3 - Used For interior zone(s) which operate as delay zone(s) in AWAY, STAY and INSTANT modes.

6 = 24 HOUR ZONE - Used For devices which will create an alarm condition whether the alarm is armed or disarmed. (i.e.. Panic and Hold-Up Buttons)

7 = 24 HOUR ZONE, (FIRE) - Used For devices such as Heat Sensors, Waterflow and Smoke Detectors (4 Wire) which are required to be active whether the alarm is armed or disarmed.

8 = DAY CIRCUIT - Used for devices required to transmit a trouble condition in a disarmed state and transmit an alarm in the armed state. (i.e.. Window Foil, Alarm Screens. etc.).

LOOP TYPE - The second diait defines the **Loop Type. The choices are as Follows**

0 = NORMALLY OPEN (No E.O.L. Resistor Requires).
1 = NORMALLY CLOSED (No E.O.L. Resistor Required).
2 = NORMALLY OPEN / NORMALLY CLOSED (E.O.L. Resistor Required).
3 = NORMALLY OPEN /E.O.L. (Reports trouble on break, alarm on short).
4 = NORMALLY CLOSED / E.O.L. (trouble on short. alarm on open).

• NOTE: E.O.L. **Resistor 2.2K ohm, 112 watt. Optex/Morse part # 14014649.**

Example IF you have a delay zone on a Front door, the loop is normally closed and E.O.L. is required as well as trouble reports. The code selected world be (0 4) for the First memory location or "zone type '

LOOP RESPONSE TIME (Sub Location A)
Loop Response Time - amount of time needed For the loop to be in violation before activating an alarm Time selected in 50 ms. increments. Enter value (00 thru 99), Default (05) = 250 ms.

ALARM CODE (Sub Location 8)
Alarm Code - transmitted when zone enters alarm condition.
Enter value (00 thru FF), Default (00) = disabled.

TROUBLE CODE (Sub Location C)
Trouble Code - transmitted when zone enters trouble condition. (Note: zone must be programmed to send trouble codes, see Loop Type).
Enter value (00 thru FF), Default (00) = disabled.

BYPASS CODE (Sub **Location D)**
Bypass Code - transmitted when zone is bypassed and system is armed. (Note: zone must be programmed for bypass, see Sub Location G).
Enter value (00 thru FF), **Default (00) = disabled.**

RESTORAL CODE (Sub Location E)
Restoral Code -is transmitted after alarm condition has returned to normal Also after trouble condition is restored to normal.
Enter **value (00** thru FF), Default (00) = disabled.

ZONE FEATURES (Sub Location F) Selected by toggling on or off bar type LCD indicators on keypad display.
(Bar On = Function Active [Yes] / Bar Off = Function Inactive [No])

1 - TELEPHONE OUTPUT, (Away LCD)

Activates digital dialer function of Genesys 824. Must be programmed Yes if panel is to transmit to central station.

Default (Yes).

2 - AUDIBLE, (Stay LCD)

Enables the steady output bell voltage for each zone. If not selected, zone will be silent (See Location 58 for bell-cutoff times).

Default (Yes).

3 - PULSE BELL, (Inst LCD)

Activates pulsed bell output for zone. "Audible (Stay LCD)" must also be selected for proper operation of this option.

Default (No).

4 - PGM OUTPUT 1, (Bypass LCD)

When selected. this zone will activate PGM Output 1 when in alarm state (See Sub Location 58B for cutoff time). This output is an Open Collector which sinks to ground for the amount of time programmed in Sub Location 58B. Note: When used as alarm output. this feature cannot be used for any other function. (See Location 59 for other functions).

Default (No)

5 - PGM OUTPUT 2, (Alarm LCD)

When selected. this zone will activate PGM Output 2 when in alarm state (See Sub Location 58C for cutoff time). This output is an Open Collector which sinks to ground for the amount of time programmed in Sub Location 58C. Note: When used as alarm output. this feature cannot be *used* for any other function. (See Sub Location 59A for other functions).

Default (No).

6 -WALK TEST, (Trbl LCD)

When selected. this option allows installer or end user to walk test the zone for proper functicn. With this functicn active all zones will scroll on the LCD display. When a zone is violated, that zone will be removed from the display. When all zones have been violated. the keypad will display the word "NONE:'.

Default (Yes). NOTE. 24 Hour zones, Day zones, and Fire zones are still active in this mode.

7 - MONITOR, (Fire LCD)

Allows panel to monitor zone activity and locally annunciate when zone is violated. (See Sub Location 76B for Monitor Mode Options).

Default (No). NOTE. 24 Hour zones, Day zones, and Fire zones are still active in this mode.

8 - SILENT/disarmed - AUDIBLE/armed, (Blank LCD)

For use with 24 hour audible zones. When the system is disarmed this feature allows for visual zone annunciation at the keypad and if selected. activation of PRG 1 and 2. In the armed mode, this feature allows for activation of bell output and PRG 1 **and 2** if selected.

Default. (No).

ZONE FEATURES (cont.) (Sub Location G) Selected by toggling on or off bar type LCD indicators on keypad display.

(Bar On = Function Active [Yes]/ Bar Off = **Function Inactive [No])**

1 - KEYPAD 1 AUDIBLE (Away LCD)

Enables or disables keypad entry buzzer For this specific keypad.
Default. (Yes).

2 - KEYPAD 2 AUDIBLE, (Stay LCD)

Enables or disables keypad entry buzzer For this specific keypad.
Default (Yes).

3 - KEYPAD 3 AUDIBLE, (Inst LCD)

Enables or disables keypad entry buzzer Fcr this specific keypad.
Default. (Yes).

4 - KEYPAD 4 AUDIBLE, (Bypass LCD)

Enables or disables keypad entry buzzer For this specific keypad.
Default. (Yes).

5 - DISPLAY ARMED, (Alarm LCD)

With this feature toggled "On", zone(s) will be displayed on all keypads when in alarm. IF more than 1 zone is violated. the violated zones will be scrolled numerically. With this Feature toggled "Off', zones will not be displayed on any keypad when in alarm.
Default. (No).

6 - SHUNT Al LOWED, (Trouble LCD)

When used in conjunction with audible zone. alarm signal will transmit only once before bell cut-off. IF zone is violated again after bell has reset. signal will again only be sent once.
Default. (No).

7 - BYPASS ALLOWED, (Fire LCD)

Allows end user to manually sypass zone if option is selected
Default. (Yes). 'NOT TO BE USED ON FIRE ZONES.

8 - NOT USED. (Blank LCD) For Future Use

COMMUNICATIONS PROGRAMMING

TEl EPHONF NUMBER1 (Location 48 thru Sub Location 48G)

This will be the primary phone number called by the Genesys 824 For all activity signals. The number is entered into memory in two-digit segments beginning in Location 48. The [^] button must be pressed between each two digit entry. The maximum number of digits allowed is 16 including dial pause and dial tone detect. Any unused memory locations should te Filled with Hexadecimal F. See below For special Functions.

Default(FF) in all spaces.

Special Functions	(Sequence) (Hex Value) (Ph. # Options)
Hexadecimal values can be used for Phone Number and For Account Number. Phone number options are valid only when programming phone numbers.	[Away]+[0] = **Hex A** = * [Away]+[1] = Hex B = # [Away]+[2] = **Hex C** = 3 Second Pause [Away]+[3] = **H e x D =** Dial Tone Detect [Away]+[4] = **Hex** E [Away]+[5] = **H e x F**

TELEPHONE NUMBER 2 (Location 50 thru Sub Location 50G)

Program in the same manner as Telephone Number 1. This digital output can be used for Backup Reporting or Redundant Reporting. See Location 75 thru Sub Location 75B for routing options.

Default (FF) in all spaces.

ACCOUNT NUMBER 1 and 2. (Location 52 thru Sub Location 52C)

Genesys 824 is capable of transmitting two separate account numbers when used in Partitioned applications. Account numbers are entered in two digit increments.

Location 52 and Sub Location 52A will hold the primary account number. Use this number if only one account number is required.

Sub Location **52B** and 52C *will* hold the secondary account number. The secondary account number is used only with a partitioned system and will transmit for the second partition.

Default (00) in all locations.

RECEIVER FORMAT 1 and 2. (Location 53)

The first digit in this location selects the format for Telephone Number 1. The second digit selects the format for Telephone Number 2. The choices are as follows:

0 = SIA Format - Security Industry Association approved transmission format. For this format. all reporting codes are present in the control panel software. To activate, enter any two digit entry other than 00 in desired code locations. For code not to be sent. program 00 in respective location.

1 = IO PPS 4-1 Format - This format is a 10 pulse per second (PPS) reporting scheme. Used when a 4 digit account number and a 1 digit event code is required.

2 - 10 PPS 4-I Extended Format - This is a 10 pulse per second (PPS) reporting format that gives more reporting capability than 4-I format.

3 - 10 PPS 4-2 Format - Similar format to 4-I Extended except that reporting is sent as a single round of information.

NOTE: Following formats are similar to above formats except transmitted at a higher rate of speed. (20 PPS).

4 - 20 PPS 4-I Format

5 - 20 PPS 4-I Extended Format

6 - 20 PPS 4-2 Format

Default (11). both 10 PPS 3-I and 4-1.

ANTI-JAM TIME (Sub Location 53A)

The amount of time required for the telephone company to disconnect the phone line after the panel has released. Enter value in 1 second increments.

Default (15).

DIAL SELECT/DIAL ATTEMPTS (Sub Location 53B)

Each digit of this entry determines a different function.

Dial Select (First Digit, 0 5)

This entry determines if the 824 will dial Rotary or Touch Tone.

[0] = Rotary, (1 thru 9] = Touch Tone

Default (05). rotary.

Dial Attempts (Second Digit, 05)

This entry determines the maximum number of dialing attempts the 824 will make on all reporting functions. The dialer will stop attempting once it receives the "Kiss-Off' from the central station.

Default (05). five attempts.

DELAY BEFORE DIALING (Sub Location 53C)

This function allows user to abort alarm transmission by entering a valid PIN number. The 824 will allow abortion of signal during period of time entered in this location. Value entered in seconds.

Default (00). no delay.

DOWNLOAD PHONE NUMBER (Location 54 thru Sub Location 54G)

This is a security feature which safeguards against unauthorized entry of the programming mode via downloading software. If the panel receives a call initiated at a PC equipped with the proper software it will hang-up and call back on this preprogrammed number. This verifies access by the proper authority and eliminates any improper access.

Default (FF) in all spaces.

LOCAL DOWNLOAD PIN Location 56 and Sub Location 56A)

This PIN works to initiate a download sequence from the 824 rather than from the Download PC. When this (4 Digit) number is entered. the 824 will dial the number programmed in Location 54 thru Sub Location 54G.

Default (0000)

ANSWER ON DOWNLOAD (Sub Location 56B)

When a call is initiated from a PC. this i's the number of rings the 824 will wart before it initiates the sequence described under DOWNLOAD PHONE NUMBER.

Default (12)

ENTRY/EXIT DELAYS, OUTPUT CUTOFFS

ENTRY DELAY (1) (Location 57)

This will be the Entry Delay for any zone programmed Entry/Exit (1) in the custom zone programming section. Selectable in 1 second increments.

Default (45)

ENTRY DELAY (2) (Sub Location 57A)

This will be the Entry Delay for any zone programmeo Entry/Exit (2) in the custom zone programming section. Selectable in 1 second increments.

Default (45).

EXIT DELAY (1) (Sub Location 57B)

This will be the Exit Delay for any zone programmes Entry/Exit (1) in the custom zone programming section. Selectable in 1 second increments.

Default (60).

EXIT DELAY(2) (Sub Location 57C)

This will be the Exit Delay for any zone programmed Entry/Exit (2) in the custom zone programming section. Selectable in 1 second increments.

Default (60)

PRE ALARM Delay (Location 58)

This feature allows the keypads to remain silent for a predetermined amount of time during entry delay This feature adds time to the total entry delay and care should be taken when this feature is utilized. Selectable in 1 second increments.

Default (00) no additional delay.

BELL CUTOFF (Sub Location 58A)

This feature determines the maximum amount of time the Alarm Output will sound when activated. For this output to activate, the zone being violated must be programmed audible yes. Selectable in 1 minute increments. Default (10).

Note: If programmed (00), a valid PIN will be required in order to reset.

PGM 1 OUTPUT (Sub Location 586)

This feature determines the maximum amount of time the PGM 1 Output will Function when activated. For this output to activate, the zone being violated must be programmed PGM 1 Output yes. Selectable in 1 minute increments.

Default (00).

Note: If programmed (00), a valid PIN will be required in order to reset.

PGM 2 OUTPUT (Sub Location 58C)

This feature determines the maximum amount of time the PGM 2 Output will function when activated. For this output to activate. the zone being violated must be programmed PGM 1 Output yes Selectable in 1 minute increments.

Default (OO).

Note: If programmed (00), a valid PIN will be required in order to reset.

PGM OUTPUT OPTIONS

PGM (1) OUTPUT OPTION (Location 59)

This option determines which function will be performed by PGM 1 when activated. The choices are as follows:

Default (99). disabled.

OO= **Alarm Output - Select if PGM** 1 is to be activated in conjunction with Zone Output. Output time corresponds to PGM 1 Output (Sub Location 58B)

O1 = **System Status** - This option will allow PGM 1 output when all zones are secured. Output will not be present if any zone is violated or if the system is armed. Use this feature if a keyplate is used instead of a keypad to activate green status LED.

O2 - **Ground Start -** Used for a reporting system where a g,round is required on the phone system to bring up dial tone. This will allow for a 2 second ground before any dialing sequence.

O3 - **Fail to Communicate - Will allow for an output** if dialer reaches maximum dialing attempts and is unsuccessful in reaching the central station.

04 - **Follow Entry/Exit Delay - Allows** for output during Entry and Exit delay times.

05 - **Utility PIN Activation - Allows** for output when Utility PIN is entered. This will cause an output hold for 5 seconds. Refer to Location __ for Utility PIN.

99 - **Disable PGM 1 - This disables PGM 1 output.**

PGM (2) OUTPUT **OPTIONS** (Sub Location 59A)

This option determines which function will be performed by PGM 2 when activated. The choices are as follows:

Default (99). disabled.

00 - Alarm Output - Select if PGM 2 is to be activated in conjunction with Zone Output. Output time corresponds to PGM 2 Output (Sub Location 58C)

01 - **System Status -** This option will allow PGM 2 output when system is armed. Output will not be present if system is disarmed or while in Exit delay mode. Use this feature if a keyplate is used instead of a keypad to activate red armed LED.

02 - **Not Used - For future use.**

03 - **Fail** to Communicate - Will allow for an output if dialer reaches maximum dialing attempts and is unsuccessful in reaching the central station.

04 - **Follow Entry/Exit Delay - Allows** for output during Entry and Exit delay times.

05 - **Utility PIN Activation -** Allows for output when Utility PIN is entered. This willcause an output hold for 5 seconds. Refer to User Programming Location 2 for Utility PIN.

06 - Not Used - For future use.

07 - **Ring Back -When** this option is selected. this output will activate for 2 seconds after the Open and Close reports have been "Kissed-Off' by the Central Station.

99 - **Disable PGM 2 -** This disables PGM 2 output.

MISCELLANEOUS REPORTING CODES

USER OPEN **CODES** (Locations 60 thru 63 and their respective Sub Locations)

These codes should be programmed if identification of user disarming of the system is required.

Default (00) all disabled.

USER CLOSING CODES (Locations 64 thru 67 and their respective Sub Locations)

These codes should be programmed if identification of user arming of the system is required.

Default (00) all disabled,

AUT0 ARM CODE (Location 68)

Program this code if you want Auto Arm (see **User Programming Location 4)** to report to the central station.

Default (00) disabled,

FAIL TO ARM CODE (Sub Location 68A)

This code will be sent if the 824 attempts to Auto Arm and is unsuccessful.

Default (00) disabled.

DURESS CODE (Sub Location 68B)

This code reports to the Central Station when the Duress Code (see Sub Location 788) is entered at the keypad.

Default (00) disabled.

AC FAILURE CODE (Sub Location 68C)

This code will be sent when the AC power is lost.

Default (00) disabled.

AC RESTORAL CODE (Location 69)

This code will be sent when the AC power is restored.

Default (00) disabled.

LOW BATTERY CODE (Sub Location 69A)

This code will be sent when the battery voltage drops to approximately 11.5 Volts.

Default (00) disabled.

BATTERY RESTORAL CODE (Sub Location 69B)

This code will be sent when the battery voitage reaches 12 Volts

Default (00) disabled.

BOX TAMPER CODE (Sub Location 69C)

Entering a code in this field will enable the box tamper feature of the 824 (see Sub Location 76A). Default (00) disabled

Box TAMPER RESTORAL CODE (Location 70)

This code is sent when the cabinet tamper is reset.

Default (00) disabled

BELL FAULT CODE (Sub Location 70A)

G-FM (Fire Module) must be used in order to send Bell Fault Code. (se* Location 76). Signal is sent if fuse is blown or if bell wiring is either shorted or opened.

Default (00) disabled.

AUXILIARY POWFR FAULT CODE (Sub Location 70B)

This code will be sent to the Central Station if the Auxiliary Power fuse is blown.

Default (00) disabled.

KEYPAD FIRE CODE (Sub Location 7OC)

This is the signal that will be sent when the keypad fire buttons are pressed ([STAY] and [6] button pressed **simultaneously** for 2 or more seconds).

Default (00) disabled.

KEYPAD EMERGENCY CODE (Location 71)

This is the signal that will be sent when the keypac emergency buttons are pressed ([INSTANT]: AND [9] button pressed **simultaneously** for 2 or more seconds).

Default (00) disabled.

KEYPAD PANIC CODE (Sub Location 71A)

This is the signal that will be sent when the keypac panic buttons are pressed ([AWAY] and [3] button pressed **simultaneously** for 2 or more seconds).

OPFN RESTORAL CODE (Sub Location 718)

This code will be transmitted when the system has been disarmed after an alarm.

Default (00) disabled.

2 WIRE SMOKE DETECTOR LOOP CODE. (Sub Location 71C)

This signal will be transmitted when the two-wire Smoke Zone goes into alarm (terminals 25 and 26).

Default (00) disabled

FIRE TROUBLE CODE (Location 72)

This code is transmitted to the Central Station when the 2 wire smoke detector loop goes into trouble.

Qefault (00) disabled.

FIRE RESTORAL CODE (Sub Location 72A)

This signal is transmitted to the Central Station when the 2 wire smoke detector loop returns to normal after an alarm condition.

Default (00) disabled.

RESTORAL CODE (Sub Location 72B)

This signal will be sent to the Central Station after an alarm **when the bell reaches the end of its time-out period.** Note: If the zone which created the alarm is not secured when the bell times-out, the signal will be **sent** when the zone is secured.

Default (00) disabled.

GROUND FAULT CODE (Sub Location 72C)

This code will be sent to the Central Station only when earth ground is lost on the G-FM (Fire Module).

Default (00) disabled

KEYPADS AND PARTITIONS

EXPANDER **BOARD SELECTOR** (Location 73)

For Expander Boards to be recognized by the 824 panel they must be selected in this field. The choices for this location are (01), (02), and (00).

Default (00) disabled

KEYPAD ACTIVATION **and** PARTITIONING (Sub Location 73A)

This locations attributes are selected by toggling on or off bar type LCD indicators on the keypad display. (Bar On = Function **Active [Yes] /** Bar Off = **Function Inactive [No]**)

1 Away - - Keypad 1 (active/inactive)
2 Stay - - Keypad 2 (active/inactive)
3 Inst - - Keypad 3 (active/inactive)
4 **Bypass --** Keypad 4 (active/inactive)
5 Alarm **- - -** Keypad 1 (partition 1)
6 Trbl - - - - - - - - Keypad 2 (partition 1)
7 Fire - - Keypad 3 (partition 1)
8 Blank —— Keypad 4 (partition 1)

BUSS FAULT CODE (Sub Location 73B)

This code will be sent if their is a trouble on the Expander Board Circuit (i.e. the panel cannot see 1 or more of the installed expansion modules or 1 or more of the keypads are addressed the same).

Default (00) disabled.

BATTERY CHARGING CALCULATION (Sub Location 73C,

This location tells the control panel the total current draw for all peripheral units. Add total current draw of system. Include Control Panel. Keypad(s) and Aux devices. Use table below to determine proper entry for this location.

Total System Current in mA	Digit to Enter (Sub Location 73C)
00 to 100mA	91
101 to 200 mA	92
201 to 300 mA	93
301 to 400 mA	94
401 to 500 mA	95
501 to 600 mA	96
601 to 700 mA	97
701 to 800 mA	98
801 to 900 mA	99

SIGNAL ROUTING

SIGNAL ROUTING OPTIONS Dart 1 (Location 75)

This is a 2 digit entry. The first digit determines which receiver(s) will receive **Alarm and Restoral** codes. The second digit determines which receiver(s) will receive **Open/Close** codes. The **choices are as follows:**

0 = Panel will report only to Receiver #1.
1 = Panel will report only to Receiver #2.
2 = Panel will report to Receiver #1. If unsuccessful, panel will attempt to report to Receiver #2.
3 = Panel will report to Receiver #1 and Receiver #2.

Default (00) report 0nlv to Receiver #1 . Note: If partitioning, see **Location 76,** section 8.

SIGNAL ROUTING OPTIONS **part 2** (Sub Location 75A)

This is a 1 digit entry. This entry determines which receiver(s) will receive **Housekeeping** codes. i.e. power codes, failure codes, etc. The Choices are as follows:

0 = Panel will report only to Receiver #1.
1 = Panel will report only to Receiver #2.
2 = Panel will report to Receiver #1. If unsuccessful. panel will attempt to report to Receiver #2.
3 = Pane! will report to Receiver #1 and Receiver #2.

Default (0) report onlv to Receiver #1. Note: If partitioning, see **Location 76, section 8.**

COMMUNICATION FAILURE CODE (Sub Location 758)

The panel will attempt to send this code if it has exhausted its dialing attempts (see memory Sub Location 53B for number of attempts).

Default (00) disabled.

SYSTEM FEATURES

SYSTEM FEATURES **Dart** 1 (Location 76)

This location is used to select specific functions for the Genesys 824. This locations attributes are selected by toggling on or off bar type LCD indicators on the keypad display.

(Bar On = Function Active [Yes] / Bar Off = Function Inactive [No])

1 - BELL TEST, (Away LCD)

With this option selected, the bell will sound for three seconds when the exit delay expires and the system arms.

Default (No).

2 - BELL AUDIBLE **or BUS FAULT,** (Stay LCD)

With this option selected, bell voltage will be present for the amount of time programmed in sub Location 58A or until a valid PIN is entered at the keypad.

Default (No).

3 - NOT USED. FOR FUTURE USE ONLY. (Inst LCD)

4 - (G-FM) INSTALLED (Bypass LCD)

With this option 'selected, the panel will ccmmunicate with the ([G-FM], Fire Module) and will indicate a buss fault if the G-FM fails.

Default (No).

5 - 50 H7 or 60 **Hz** (Alarm LCD)

With this option selected, unit will operate on 60 Hz. If this option is not selected, panel will operate on 50 Hz.

Default (Yes) 60 Hz.

6 - TELCO FAULT AUDIBLE (Trouble LCD)

With this option selected, the keypad will display a visual indication of telephone trouble (TLM) and emit a pulsed audible tone.

Default (No).

7 - NOT USED. FOR FUTURE USE ONLY. (Fire LCD)

8 - PARTITION SYSTEM (Blank LCD)

With this option selected, the panel can be used as two separate systems. The first half of the zones will automatically become partition #1 and the second half of the zones will become partition #2. User PIN numbers 1 thru 8 will be assigned to partition #1 and user PIN numbers 9 thru 16 will be assigned to partition #2. Partition #1 will always report its information to Receiver #1 and partition X2 will always report to Receiver #2. **Note: when Partition is selected, Signal Routing (Location 75 and Sub Location 75A) will be superseded.**

Default (No).

SYSTEM FEATURES part 2 (Sub Location 76A)

This location is also used to select specific functions for the Genesys 824. This locations attributes are selected by toggling on or off bar type LCD indicators on the keypad display.

(Bar On = Function Active [Yes] / Bar Off = Function Inactive [No])

1 - ACKNOWLEDGE REQUIRED for MONITOR MODE. (Away LCD)

With this option selected, Monitor Mode will require the keypad to be manually reset after each zone is violated. The keypad may be reset by depressing the [^] button or entering a valid PIN number. If this option is not selected, the keypad will emit a 2 second tone when a zone is violated and display the zone until it is restored to normal.

Default (No).

2 - BELL OUTPUT for MONITOR MODE, (Stay LCD)

This feature works in conjunction with the previous feature. With this option selected, the bell output will be continuous until the keypad is manually reset. If this option is not selected. the bell output will activate momentarily when monitored zone is violated.

Default (No).

3 - PGM 1 OUTPUT for MONITOR MODE, (Inst LCD)

This feature allows PGM 1 to duplicate the function for Monitor Mode selected above.

Default (No),

4 - PGM 2 OUTPUT for MONITOR MODE. (Inst LCD)

This feature allows PGM 2 to duplicate the function for Monitor Mode selected above.

Default (No).

NOTE: [ALARM], I-TROUBLE], [FIRE], AND [BLANK] LCD LOCATIONS ARE NOT USED.

SELF TEST TIMES

SELF TEST TIME INTFRVAL [HOURS] (Location 77)

This memory location determines the hour of the day at which the test signal shall be sent to the Central Station. The hour must be entered in military time, i.e. 3:00PM = 15.

Default (99) disabled.

SELF TEST TIME INTERVAL [MINUTES] (Sub Location 77A)

This memory location determines the minute of the hour at which the test signal shall be sent to the Central Station.

Default (99) disabled.

SELF TEST TIME INTERVAL [DAYS] (Sub Location 778)

This memory location determines the interval between days at which the test signal shall be sent to the Central Station.

Default (00) disabled.

SELF TEST CODE (Sub Location 77C)

This will be the code sent to the Central Station for Self Test.

Default (00) disabled.

INSTALLERS/DURESS PIN(s)

JNSTALLERS PIN (Location 78)

This is the code used by the Installer to access the Installer Programming Mode. NOTE: Take **care when reprogramming this code. If the code is lost the panel must be returned to Optex/Morse for Defaulting.** Default (9999),

DURESS PIN (Sub Location 78A)

When this PIN is used the Genesys 824 will be armed or disarmed normally and a Duress Code will be sent to the Central Station. See Sub Location 68B for Duress Code

Default (FFFF) disabled.

NOTE: PINS CANNOT be duplicated under any circumstances If a duplicate is entered in error. the keypad will enunciate audibly to indicate the PIN has been rejected.

U.L. VERIFICATION INFORMATION
For Grade A Local Mercantile Installations

The Minimum requirements to form a Listed Grade A Local System includes Low Battery Alarm Annunciation.

BATTERY CHARGING CALCULATIONS

BATTERY CALCULATIONS (Location 79 thru Sub Location 79A)

U.L. requires that the primary power fail signal shall not be transmitted until standby power IS **25** percent depleted and is guaranteed to be sent before the standby power falls to 50 percent. To comply with this requirement, program (Location 79) with total current draw for the control panel and all installed modular units. Also program (Sub Location 79A) with the amp hour rating of the battery. These are calculated as follows:

(First) Subtract the Total Current in mA from 1000 and divide this number by 10, **(IOOOmA - Total Current** in mA) / 10. Then convert this number into a hexadecimal value using the chart on the following page. This number is entered in **(Location 79).**

(Second) Multiply the Amp Hour rating of the standby battery by 10, (**Battery** Amp Hour Rating X 10). Then convert this number into a hexadecimal value using the chart on the following page. This number is entered in **(Sub Location 79A).**

CURRENT RATING CHART

Control (G-824)	=	100mA
Keypad	=	24mA
Fire Module(G-FM)	=	50mA
Bell 85Db. (Wheelock #46T-G1 O-l 2)	=	125mA
Expansion Board(G-EX)	=	29mA

The following worksheet is used to calculate the total Amp Hour draw on the battery

Control (G-824)	100mA	X _____ Hours	= _____ Amp Hours
Keypad **(G-KP)**	24mA	X _____ Hours	= _____ Amp Hours
Bell	**125mA**	**X 15** Minutes	= _____ Amp Hours
Fire Module (G-FM)'	50mA	X _____ Hours	= _____ Amp Hours
Control (in Alarm)	100mA	X 15 Minutes	= _____ Amp Hours
		Total	= _____ 'Amp Hours

. FIRE MODULE REQUIRED FOR COMMERCIAL FIRE APPLICATIONS:

Battery Part Numbers

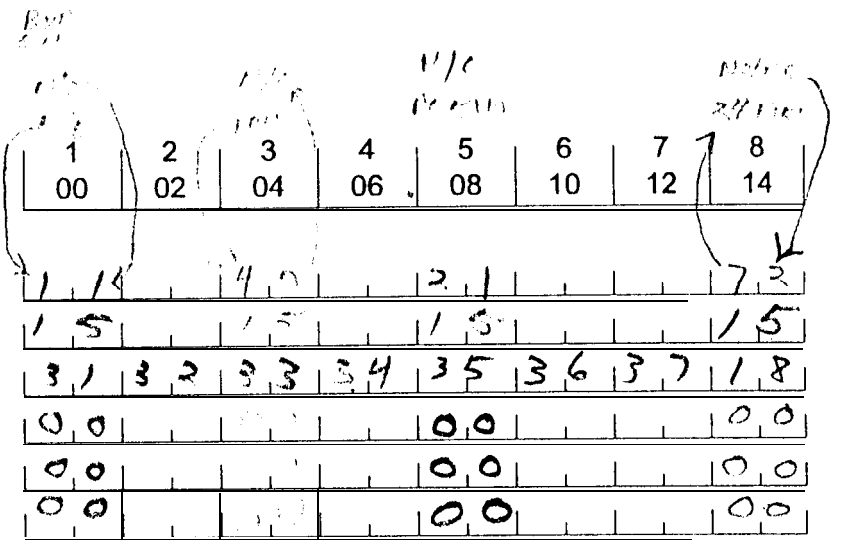
RB-1215	1.5Ah	(minimum for 4 hours)
RB-1226	2.6Ah	(alternate for 4 hours)
RB-1280	9.5Ah	(one required for **24** hours)

DECIMAL TO HEXIDECIMAL CONVERSION CHART

DEC	HEX	DEC	HEX	DEC	HEX	DEC	HEX	DEC	HEX	DEC	HEX	DEC	HEX
000	00	040	28	080	50	120	78	160	A0	200	C8	240	F0
001	01	041	29	081	51	121	79	161	A1	201	C9	241	F1
002	02	041	2A	082	52	122	7A	162	A2	202	CA	242	F2
003	03	043	2B	083	53	123	7B	163	A3	203	CB	243	F3
004	04	044	2C	084	54	124	7C	164	A4	204	CC	244	F4
005	05	045	2D	085	55	125	7D	165	A5	205	CD	245	F5
006	06	046	2E	086	56	126	7E	166	A6	206	CE	246	F6
007	07	047	2F	087	57	127	7F	167	A7	207	CF	247	F7
008	08	048	30	088	58	128	80	168	A8	208	D0	248	F8
009	09	049	31	089	59	129	81	169	A9	209	D1	249	F9
101	0A	050	32	090	5A	130	82	170	AA	210	D2	250	FA
011	0B	051	33	091	5B	131	83	171	AB	211	D3	251	FB
012	0C	052	34	092	5C	132	84	172	AC	212	D4	252	FC
013	0D	053	35	093	5D	133	85	173	AD	213	D5	253	FD
014	0E	054	36	094	5E	134	86	174	AE	214	D6	254	FE
015	0F	055	37	095	5F	135	87	175	AF	215	D7	255	FF
016	10	056	38	096	60	136	88	176	B0	216	D8		
017	11	057	39	097	61	137	89	177	B1	217	D9		
018	12	058	3A	098	62	138	8A	178	B2	218	DA		
019	13	059	3B	099	63	139	8B	179	B3	219	DB		
020	14	060	3C	100	64	140	8C	180	B4	220	DC		
021	15	061	3D	101	65	141	8D	181	B5	221	DD		
022	16	062	3E	102	66	142	8E	182	B6	222	DE		
023	17	063	3F	103	67	143	8F	183	B7	223	DF		
024	18	064	40	104	68	144	90	184	B8	224	E0		
025	19	065	41	105	69	145	91	185	B9	225	E1		
026	1A	066	42	106	6A	146	92	186	BA	226	E2		
027	1B	067	43	107	6B	147	93	187	BB	227	E3		
028	1C	068	44	108	6C	148	94	188	BC	228	E4		
029	1D	069	45	109	6D	149	95	189	BD	229	E5		
030	1E	070	46	110	6E	150	96	190	BE	230	E6		
031	1F	071	47	111	6F	151	97	191	BF	231	E7		
032	20	072	48	112	70	152	98	192	C0	232	E8		
033	21	073	49	113	71	153	99	193	C1	233	E9		
034	22	074	4A	114	72	154	9A	194	C2	234	EA		
035	23	075	4B	115	73	155	9B	195	C3	235	EB		
036	24	076	4C	116	74	156	9C	196	C4	236	EC		
037	25	077	4D	117	75	157	9D	197	C5	237	ED		
038	26	078	4E	118	76	158	9E	198	C6	238	EE		
039	27	079	4F	119	77	159	9F	199	C7	239	EF		

THIS CHART CONVERTS DECIMAL VALUES FROM 000 TO 255 INTO 2 DIGIT HEXIDECIMAL EQUIVALENTS. THE TEST TIMER INTERNAL MUST BE PROGRAMMED USING THIS CHART. EXAMPLE. TEST TIME PERIOD OF 1 OAY is "24 HOURS", FIND 24 IN THE OECIMAL COLUMN AND READ THE HEXIDECIMAL EQUIVALET - 24 HOURS = 18; 72 HOURS =

GENESYS 824 - PROGRAMMING SHEET



ZONE	1	2	3	4	5	6	7	8
MEMORY LOCATION	00	02	04	06	08	10	12	14

00	Zone Type - Loop Type	1	4	2	1				3
00A	Loop Response	1	5	1	5	1	5		1	5
00B	Alarm Code	31	32	33	34	35	36	37	18
ooc	Trouble Code	00				00				00
00D	Bypass Code	00				00				00
00E	Restore Code	00				00				00
00F	ZONE FEATURES (YES = ON, NO = OFF)									
	1 AWAY-TELEPHONE	Y		Y		Y				
	2 STAY-AUDIBLE	Y		Y		Y				
	3 INST - PULSE BELL	N		N		N				
	4 BYPASS - PGM 1	N		N		N				
	5 ALARM - PGM 2	N		N		N				
	6 TRBL - WALK TEST	Y		Y		Y				
	7 FIRE - MONITOR	N		N		N				
	8 BLANK - SILENT DAY	N		N		N				
00G	ZONE FEATURES (YES = ON, NO = OFF)									
	1 AWAY - KEYPAD 1 AUDIBLE	N		N		N				N
	2 STAY - KEYPAD 2 AUDIBLE	N		N		N				N
	3 INST - KEYPAD 3 AUDIBLE	N		N		N				N
	4 BYPASS - KEYPAD 4 AUDIBLE	N		N		N				N
	5 ALARM - DISPLAY ARMED	Y		Y		Y				Y
	6 TRBL - SHUNT ALLOWED	Y				Y				Y
	7 FIRE - BYPASS ALLOWED	Y				Y				N
	8 BLANK - NOT USED									

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OPTEX MORSE INC. 12960 Bradley Avenue, Sylmar, CA 91342 USA 4 818-367-5951 FAX: 818-367-6884

		ZONE	9	10	11	12	13	14	15	16
		MEMORY LOCATION	16	18	20	22	24	26	28	30
00	Zone Type - Loop Type									
00A	Loop Response									
00B	Alarm Code									
ooc	Trouble Code									
00D	Bypass Code									
00E	Restore Code									
00F	ZONE FEATURES (YES = ON NO = OFF)									
	1	AWAY-TELEPHONE								
	2	STAY-AUDIBLE								
	3	INST - PULSE BELL								
	4	BYPASS - PGM 1								
	5	ALARM - PGM 2								
	6	TRBL - WALK TEST								
	7	FIRE - MONITOR								
	8	BLANK - SILENT DAY								
00G	ZONE FEATURES (YES = ON, NO = OFF)									
	1	AWAY - KEYPAD 1 AUDIBLE								
	2	STAY - KEYPAD 2 AUDIBLE								
	3	INST - KEYPAD 3 AUDIBLE								
	4	BYPASS - KEYPAD 4 AUDIBLE								
	5	ALARM - DISPLAY ARMED								
	6	TRBL - SHUNT ALLOWED								
	7	FIRE - BYPASS ALLOWED								
	8	BLANK - NOT USED								

ZONE	17	18	19	20	21	22	23	24
MEMORY LOCATION	32	34	36	38	40	42	44	46

00 Zone Type - Loop Type

00A Loop Response

00B Alarm Code

00C Trouble Code

00D Bypass Code

00E Restore Code

00F ZONE FEATURES (YES = ON, NO = OFF)

1	AWAY-TELEPHONE				L-J			↗
2	STAY-AUDIBLE							
3	INST - PULSE BELL							
4	BYPASS - PGM 1							
5	ALARM - PGM 2							
6	TRBL - WALK TEST							
7	FIRE - MONITOR							
8	BLANK - SILENT DAY							

00G ZONE FEATURES (YES = ON, NO = OFF)

1	AWAY - KEYPAD 1 AUDIBLE							
2	STAY - KEYPAD 2 AUDIBLE					II		
3	INST - KEYPAD 3 AUDIBLE							
4	BYPASS - KEYPAD 4 AUDIBLE				L-1			
5	ALARM - DISPLAY ARMED	u	u	u	u	u	u	u	u
6	TRBL - SHUNT ALLOWED							
7	FIRE - BYPASS ALLOWED							
a	BLANK - NOT USED							

MEMORY
LOCATION

TELEPHONE # CHART

A = •
B = #
c = : (3 second pause)
D = ; (wait for dial tone)

48	RECEIVER TELEPHONE #1	1 3
A		0 0
B		
C		
D		
E		1
F		
G		
50	RECEIVER TELEPHONE #2	
A		
B		
C		
D		
E		
F		
G		
52	ACCOUNT NUMBER 1	
A	ACCOUNT NUMBER 1	
B	ACCOUNT NUMBER 2	
C	ACCOUNT NUMBER 2	
53	RECEIVER #1&#2 FORMATS	6 6
A	ANTI JAM TIME	1 5
B	LINE TYPE - DIAL ATTEMPTS	1 8
C	DELAY BEFORE DIALING	0 0
54	DOWNLOAD TELEPHONE NUMBER	
A		
B		
C		
D		
E		
F		
G		
56	LOCAL DOWNLOAD PIN	
B	DOWNLOAD - NUMBER OF RINGS	0 8
57	ENTRY DELAY #1	3 0
-A	ENTRY DELAY #2	5
B	EXIT DELAY #1	6 0
C	EXIT DELAY #2	0

MEMORY LOCATION		
58	PRE-ALARM DELAY	00
A	BELL CUT OFF	06
B	PGM 1 CUT OFF	
C	PGM 2 CUT OFF	
59	PGM 1 OUTPUT OPTIONS	09
A	PGM 2 OUTPUT OPTIONS	09
60	USER NUMBER 1 OPEN REPORT CODE	00
A	USER NUMBER 2 OPEN REPORT CODE	00
B	USER NUMBER 3 OPEN REPORT CODE	00
C	USER NUMBER 4 OPEN REPORT CODE	00
61	USER NUMBER 5 OPEN REPORT CODE	00
A	USER NUMBER 6 OPEN REPORT CODE	00
B	USER NUMBER 7 OPEN REPORT CODE	00
C	USER NUMBER 8 OPEN REPORT CODE	00
62	USER NUMBER 9 OPEN REPORT CODE	00
A	USER NUMBER 10 OPEN REPORT CODE	00
B	USER NUMBER 11 OPEN REPORT CODE	00
C	USER NUMBER 12 OPEN REPORT CODE	00
63	USER NUMBER 13 OPEN REPORT CODE	00
A	USER NUMBER 14 OPEN REPORT CODE	00
B	USER NUMBER 15 OPEN REPORT CODE	00
C	USER NUMBER 16 OPEN REPORT CODE	00
64	USER NUMBER 1 CLOSE REPORT CODE	00
A	USER NUMBER 2 CLOSE REPORT CODE	00
B	USER NUMBER 3 CLOSE REPORT CODE	00
C	USER NUMBER 4 CLOSE REPORT CODE	00
65	USER NUMBER 5 CLOSE REPORT CODE	00
A	USER NUMBER 6 CLOSE REPORT CODE	00
B	USER NUMBER 7 CLOSE REPORT CODE	00
C	USER NUMBER 8 CLOSE REPORT CODE	00
66	USER NUMBER 9 CLOSE REPORT CODE	00
A	USER NUMBER 10 CLOSE REPORT CODE	00
B	USER NUMBER 11 CLOSE REPORT CODE	00
C	USER NUMBER 12 CLOSE REPORT CODE	00
67	USER NUMBER 13 CLOSE REPORT CODE	00
A	USER NUMBER 14 CLOSE REPORT CODE	00
B	USER NUMBER 15 CLOSE REPORT CODE	00
C	USER NUMBER 16 CLOSE REPORT CODE	00

MEMORY LOCATION			
68	AUTO ARM REPORT CODE		5 0
A	FAIL TO AUTO ARM REPORT CODE		0 0
B	DURESS REPORT CODE		2 2
C	AC FAIL REPORT CODE		7 9
69	AC RESTORAL REPORT CODE		5 9
A	LOW BATTERY VOLTAGE REPORT CODE		7 8
B	BATTERY VOLTAGE RESTORAL REPORT CODE		0 0
C	BOX TAMPER REPORT CODE		0 0
70	BOX TAMPER RESTORE CODE		0 0
A	BELL FAULT REPORT CODE		0 0
B	AUXILIARY POWER FAULT REPORT CODE		0 0
C	KEYPAD FIRE REPORT CODE		0 1
71	KEYPAD EMERGENCY REPORT CODE		0 4
A	KEYPAD PANIC REPORT CODE		0 2
B	OPEN RESTORE REPORT CODE		0 0
C	SMOKE DETECTOR LOOP REPORT CODE		1 6
72	FIRE TROUBLE REPORT CODE		7 6
A	FIRE RESTORE REPORT CODE		4 6
B	BELL CIRCUIT RESTORE REPORT CODE		0 0
C	GROUND SUPERVISION FAULT REPORT CODE		0 0
73	NUMBER OF EXPANDER BOARDS INSTALLED		0 0
A	1-AWAY = KEYPAD #1 ENABLED	(ON = YES, OFF = NO)	
	2-STAY = KEYPAD #2 ENABLED	(ON = YES, OFF = NO)	
	3 - INST = KEYPAD #3 ENABLED	(ON = YES, OFF = NO)	
	4 - BYPASS = KEYPAD #4 ENABLED	(ON = YES, OFF = NO)	
	5-ALARM = KEYPAD #1 ASSIGNED TO PARTITION #1	(ON = YES, OFF = NO)	
	6 - TRBL = KEYPAD #2 ASSIGNED TO PARTITION #1	(ON = YES, OFF = NO)	
	7 - FIRE = KEYPAD #3 ASSIGNED TO PARTITION #1	(ON = YES, OFF = NO)	
	8-BLANK = KEYPAD #4 ASSIGNED TO PARTITION #1	(ON = YES, OFF = NO)	
B	BUSS FAULT REPORT CODE		0 0
C	CHARGE TIME - HIGH & LOW		
74	EXIT ERROR FEATURE - FOR FUTURE USE		
75	RECEIVER REPORTING FOR ALARMS, RESTORES, OPEN & CLOSE CODES		0 0
A	RECEIVER REPORTING FOR SYSTEM AND FUTURE USE		0 0
B	COMMUNICATION FAIL REPORT CODE		0 0