



MODEL 1407 Revision 5 REMOTE ARM/DISARM MODULE **with VOICE RESPONSE**

INSTALLATION MANUAL

1.0 GENERAL DESCRIPTION

The Model 1407 is a remote control relay module which is connected to the subscribers telephone line which when called from any outside phone line it will answer the call in a pre-programmed number of rings dependent upon the Control Panel Armed status. Upon answering, the 1407 will respond with voice messages in plain English. The caller has 15 seconds to enter a 4 digit access code. If the code is not received the 1407 will hang-up. If a correct access code is received the relay on the 1407 will activate in a manner controlled via it's programming. This relay closure in turn will cause the Control Panel Armed status to change. The relay can be accessed as many times as desired during the same call. A corresponding voice message will be generated each time the Control Panel changes state.

The 1407 is programmed using a standard touch tone phone and the telco network. The user may also access programming features via a local phone. All options and access codes are stored in a non-volatile, removable EEPROM.

New features incorporated into Revision 5 allow the user to access the 1407 via local phones during alarm and non-alarm conditions, voice mail bypass and spoken English confirmation of programming options and access codes.

2.0 OPERATION - ARMING/DISARMING A CONTROL PANEL.

2.1 REMOTE ACCESS.

The 1407 can be accessed (activated) using an outside telephone as follows:

- 1) Call the telephone number to which the 1407 is connected and allow it to ring the programmed number of rings. DEFAULT: One ring if armed, two rings if disarmed.
- 2) The 1407 will answer with the message: **"HELLO, FOR SYSTEM STATUS PLEASE ENTER ACCESS CODE."**
- 3) After the message is played, you then have 15 seconds to enter either the four digit primary or secondary access code. DEFAULT: Primary: **1 2 3 4** Secondary: **5 6 7 8**
- 4) After a slight delay the 1407 will report the status of the alarm panel. The 1407 will respond with **"SECURITY SYSTEM IS...ON / OFF...OR...IN ALARM...TO TURN IT...ON / OFF...ENTER YOUR ACCESS CODE."**
- 5) To change the status re-enter the access code.
- 6) When the call is completed it is recommended that you first hang-up the 1407 before hanging-up yourself. To hang-up the 1407 press * *. The system will respond with **"GOOD-BYE."** (see Note 1)

Note 1 If you do not hang-up the 1407 it will automatically hang-up 30 seconds after the last Touch Tone digit is received. This is true even if you are still on line.

2.2 LOCAL ACCESS.

The 1407 can be accessed (activated) locally using a telephone located on premise by picking up the phone and entering the pre-programmed local access code. DEFAULT: * 5 5

The 1407 will respond to the correct access code by reporting the status of the alarm panel. The 1407 will respond with “**SECURITY SYSTEM IS...ON / OFF..OR..IN ALARM...TO TURN IT...ON / OFF...ENTER YOUR ACCESS CODE.**”

To change the status, re-enter the access code.

Once a correct access code is accepted, the status of the alarm panel can be read and played back anytime by entering # # .

NOTE: LOCAL ACCESS IS NOT AVAILABLE FOR A PERIOD OF 20 SECONDS AFTER THE PHONE RINGS.

2.3 VOICE MESSAGE BYPASS (also ANSWERING MACHING BYPASS)

If you are using a local phone company provided Voice Message instead of an answering machine, the following procedure can be used to bypass it and access the 1407.

1) Call the phone number to which the 1407 is connected and hang up after the number of rings programmed in OPTION 8 has been reached (completed).

Note 2: If there is another device connected to the phone line that also uses Voice Messaging Bypass, it is recommended that you add two to the number of rings (added to the # of rings from the other device) for the 1407. Example: If the other device requires 1 ring, add 2 + 1 = 3 rings for the 1407.

2) Wait 10 to 20 seconds. (NO MORE, NO LESS)

3) Call back. The 1407 will pick up within one ring as outlined in REMOTE ACCESS described above.

2.4 ANSWERING MACHINE BYPASS

If an answering machine is utilized at the premises, it can be bypassed to gain access to the 1407 with the following procedure:

1) Call the phone number to which the 1407 is connected and let the answering machine answer the phone.

2) Once the answering machine answers the line, you have 15 seconds to enter the access code.

3) The 1407's sniffing circuit will detect the code and activate.

TIP: It is recommended to record a 5 to 10 second “blank” at the beginning of the Answering Machine outgoing message to facilitate faster decoding by the 1407.

2.5 ACCESS CODES

There are THREE - 4 digit access codes programmable in the 1407 which are as follows;

Maintenance code - This code is used by the installation company to perform programming changes (via the phone line). The Maintenance code cannot be used to activate the control relay of the 1407 nor can it be used to re-program the primary or secondary access codes.

Primary Access Code - This code is used to activate the control relay of the 1407 and can be used in the program mode to re-program itself.

Secondary Access Code - This code is similar to the Primary Access Code but in addition has a option associated with it which will restrict to arming the control panel only.

3.0 OPERATIONAL

3.1 CHANGING ACCESS CODES

- 1) Call the telephone number to which the 1407 is connected or access via local phone access by picking up local phone and entering access code (default is * 5 5).
- 2) After the 1407 answers (or picks up on local access) enter * 9. The 1407 will respond with the message **"CODE CHANGE MODE. ENTER YOUR ACCESS CODE."** Enter the access code you wish to change (Maintenance, Primary or Secondary). The 1407 will respond with the message **"ENTER NEW ACCESS CODE."**
- 3) Enter the new 4 digit access code. When the last digit of the new code has been entered, the 1407 will play the new code starting with the message **"NEW ACCESS CODE IS..."** For a period of eight seconds after entering the new code, you will have the new code re-played each time you enter # *.

3.2 PROGRAMMING OPTIONS

- 1) Call the telephone number to which the 1407 is connected or access via local phone access by picking up local phone and entering access code (default is * 5 5).
- 2) The 1407 will respond with the message **"PROGRAM CHANGE MODE, PLEASE ENTER YOUR ACCESS CODE."**

NOTICE: ONLY THE MAINTENANCE CODE CAN BE USED TO RE-PROGRAM OPTIONS.

- 3) Enter the MAINTENANCE access code. The 1407 will respond with **"ENTER NEW PROGRAM."** (See Note 3)
- 4) Programming of the options starts at Address 0 and progresses sequentially to the last digit of the SECONDARY ACCESS CODE, Address 21.

Enter the option data as recorded on the OPTION DATA PROGRAM FORM located at the end of this manual.

Do not skip any options even if you do not wish to change that option.

If all the options are to be changed (address 0 through 13) the 1407 will, when the last digit of the MAINTENANCE code is entered, play back the options starting with the message **"NEW PROGRAM IS..."** (See Note 4)

- 5) Although the options must be changed in sequential order you can leave the program mode at any time.

For example: To change Option 2 you must first re-enter the data for Option 1 then enter the new data for Option 2, at this time you can exit the program mode, without having to re-program the remaining options, by pressing * #. This will save the changes, exit the program mode and cause 1407 to play back the options. See Note 5.

Note 3: If you have mistakenly entered the program mode or if for any reason you wish to exit without saving the changes you might have made. Pressing * * will exit the program mode without saving the changes and will cause the 1407 to play back the options. See Note 5.

Note 4: If you make a mistake entering the options, you can start over at option 1 by pressing # .

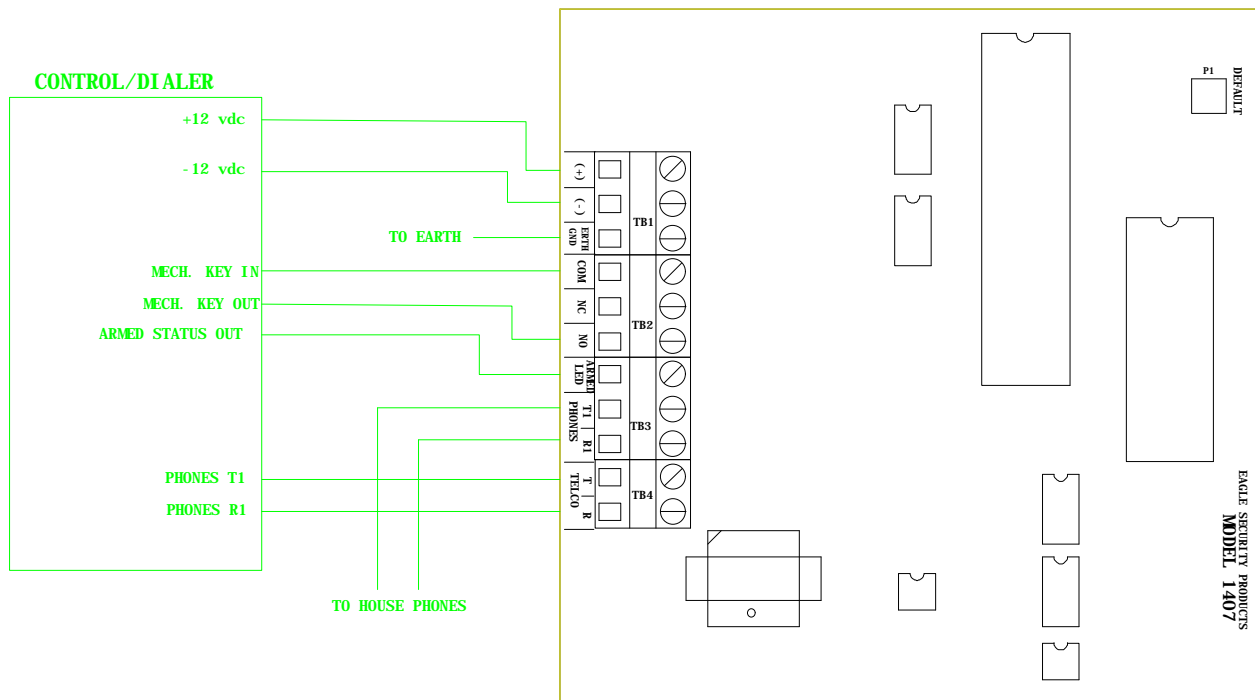
Note 5: Once you have exited the program mode you are back to the normal operating mode of the 1407. You can then Arm/Disarm the Control Panel or hang-up the 1407.

Note 6: For a period of eight seconds after entering the last option you can have the options re-played each time you enter # * .

3.2.1 Relay Options. Option 2 is used to select either the STANDARD or CUSTOM closure of the 1407's control relay.

STANDARD: If the STANDARD closure is selected, the relay will activate for two seconds (irregardless of what is selected for option five) each time the correct access code is entered. The status of the alarm panel will not be played until the end of the two second relay closure. In addition, the 1407 will respond to a pulsing ARMED LED input with the message "**SECURITY SYSTEM IS IN ALARM.**" Pulse rate range is from two to ten pulses per second.

CUSTOM: If the CUSTOM closure is selected, the relay activation time is selected by Option five. Additionally, the 1407 will not respond to a pulsing ARMED LED input. The status of the alarm panel will play as soon as a change is detected.



3.3 OPTIONS DESCRIPTION

Option 1 (Address 0): (Default: 1)

Arm/disarm relay, momentary or alternating.

1 = Momentary.

2 = Alternating.

Option 2 (Address 1): (Default: 1)

This option selects either the STANDARD or CUSTOM setting for the momentary relay closure.

1 = STANDARD (See Paragraph 3.2.1)

2 = CUSTOM

Option 3 (Address 2): (Default: 2)

This option tells the 1407 how to interpret the SYSTEM STATUS INPUT.

1 = A voltage > 2 VDC = the panel is ARMED and voltage < 2 VDC = the panel is NOT ARMED.

2 = A voltage < 2 VDC = the panel is ARMED and voltage > 2 VDC = the panel is NOT ARMED.

Option 4 (Address 3): (Default: 1)

Secondary access code.

1 = Secondary access code can only arm the system.

2 = Secondary access code can arm and disarm the system.

CAUTION: A 0 entered from the telephone is interpreted by the 1407 as a 10. If you are using a EEPROM programmer enter a 10 for these options not 0.

Option 5 (Address 4): (Default: 1)

Selects the activation time of the control relay if the relay is selected by Option 1 as momentary & custom.

Enter a number from 1 to 9, or 0 for 10.

The number entered is multiplied by 0.75 seconds.

Example: A 3 entered here will cause the control relay to close for $3 \times 0.75 = 2.25$ seconds.

Option 6 (Address 5): (Default: 1)

Number of rings before the 1407 answers when Control Panel is ARMED. Enter a number from 1 to 9, or 0 for 10.

1 to 0 = 1 - 10 rings respectively.

Option 7 (Address 6): (Default: 2)

Number of rings before 1407 answers when Control Panel is NOT ARMED. Enter a number from 1 to 9, or 0 for 10.

1 to 0 = 1 - 10 rings respectively.

Option 8 (Address 7): (Default: 1)

Selects Voice Message Bypass option. This allows a Ring-Pause-Ring to access the module.

0 = Voice Message Bypass is Disabled

1 - 9 = Voice Message Bypass is Enabled and sets the required number of initial rings to the number entered.

Option 9 (Addresses 8 - 9): (Default: * 5 5)
Local Access Code

<u>Address</u>	<u>Data</u>
8	Second digit
9	Third digit

NOTICE: Asterisk (*) is mandatory and fixed as the first digit on Local Access Code.
Programming Note: Programming a ☐ ☐ for this option will allow the unit to be accessed by entering the * only.

Option 10 (Addresses 10 - 13): (Default: 1 2 3 4)
Maintenance Code

<u>Address</u>	<u>Data</u>
10	First digit
11	Second digit
12	Third digit
13	Fourth digit

Option 11 (Addresses 14 - 17): (Default: 5 6 7 8)
Primary Access Code

<u>Address</u>	<u>Data</u>
14	First digit
15	Second digit
16	Third digit
17	Fourth digit

Option 12 (Addresses 18 - 21): (Default: 9 1 9 2)
Secondary Access Code

<u>Address</u>	<u>Data</u>
18	First digit
19	Second digit
20	Third digit
21	Fourth digit

3.4 COMMAND OPTION SUMMARY

Enter Program Modes:

- * ☐ (Any Code)..... Accesses new code program mode.
- * ☐ (Maintenance code).... Accesses the (all options) program mode.

Program Mode Control:

- # Returns to Option 1.
- * # Saves all changes and exits the program mode.
- * * Exits the program without saving any changes.

Normal Operating Mode:

- * * Hang-up the 1407.

3.5 DEFAULT OPTIONS ACCESS

The 1407 has a set of default options accessible to the installer for the initial installation or if the access codes are lost by the subscriber.

To access the default options;

- 1) Turn on power to the 1407.
- 2) Momentarily connect the 2 pins of connector P1 of the 1407.
- 3) The default options as shown on the OPTIONS PROGRAM FORM are now loaded into the 1407.

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OPTION DATA PROGRAM FORM

Option Number	Your Data	Default Data	Default Description
..... 1.....	_____	1	Momentary
..... 2.....	_____	1	Standard Relay Closure
..... 3.....	_____	2	< 2 VDC = Armed
..... 4.....	_____	1	Arm only
..... 5.....	_____	1	0.75 second activation time
..... 6.....	_____	1	1 ring if Armed
..... 7.....	_____	2	2 rings NOT Armed
..... 8.....	_____	1	Voice Message Bypass Enabled 1 ring initial answer
..... 9.....	* _ _ _	* 5 5.....	Local Access Code
..... 10.....	_ _ _ _	1 2 3 4	Maintenance Code
..... 11.....	_ _ _ _	5 6 7 8	Primary Access Code
..... 12.....	_ _ _ _	9 1 9 2	Secondary Access Code

Note: Asterisk (*) is mandatory as first digit on Local Access Code (Option 9)

Installation Notes