



MODEL 1404 REMOTE ARM/DISARM MODULE

INSTALLATION MANUAL

GENERAL DESCRIPTION

The Model 1404 is a remote control relay module which is connected to the subscribers telephone line in parallel with all other devices including the alarm communicator, answering machines, fax machines, house phones and many more.

The 1404 can be called from any outside phone line and will answer the call in a pre-programmed number of rings dependent upon the Control Panel Armed status.

When the 1404 answers it will generate a set of tones also dependent upon the Control Panel Armed status.

After the answer tones are generated the caller has 15 seconds to enter a 4 digit access code. If the code is not received the 1404 will hang-up.

If a correct access code is received the relay on the 1404 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 set of tones will be generated each time the Control Panel changes state.

The 1404 is programmed using a standard touch tone phone and the telco network. All options and access codes are stored in a non-volatile, removable EEPROM.

The Eagle Model 1403 relay module can be directly connected to expand the number of relays which can be controlled remotely by 4 (1-1403) or 8 (2-1403's).

OPERATION - ARMING/DISARMING A CONTROL PANEL

- 1) Call the telephone number to which the 1404 is connected.
- 2) Count the number of rings. (See Note *)
- 3) When the 1404 answers listen to the tone it generates. The number of rings and the tone generated will tell you the status of the Control Panel. (See Note 1)
- 4) After the 1404 answers the call you have 15 seconds to enter a valid access code. (See Note 2)
- 5) Entering a valid access code will cause the control relay on the 1404 to activate. If the 1404 is connected to a Control Panel and if the Control Panels Armed/Not Armed status changes, the 1404 will generate new status tones each time the access code is entered.
- 6) When the call is completed it is recommended that you first hang-up the 1404 before hanging-up yourself. To hang-up the 1404 press the * button twice. (see Note 3)

Note *: If an answering machine is connected to the same line as the 1404 and it answers first, you can connect to the 1404 by entering an access code during a "quiet" time of the answering machine

message. A "beep" will be generated and the 1404 will connect to the phone line in parallel with the answering machine. Note that the control relay did not activate with this first access code. The operation will now be the same as if it has answered the rings.

Note 1: Dependent upon it's programming and the status of the System Status Input the 1404 will generate either a simple "beep-bop" to indicate the system is ARMED or a "beep", followed by a period of silence and then a "beep-bop" to indicate the system is NOT ARMED.

Note 2: There are THREE -4 digit access codes programmable in the 1404 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 1404 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 1404 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.

Note 3: If you do not hang-up the 1404 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.

OPERATION - CHANGING ACCESS CODES

- 1) Call the telephone number to which the 1404 is connected.
- 2) After the 1404 answers Press the * then the 9 then the access code you wish to change. (Maintenance, Primary or Secondary)
- 3) When the last digit of the old code is entered a "beep" will be generated indicating that you have successfully entered the program mode.
- 4) Enter the new 4 digit access code. When the last digit of the new code is entered another "beep" will be generated and the 1404 will automatically exit the program mode.

OPERATION - REPROGRAMMING OPTIONS

- 1) Call the telephone number to which the 1404 is connected.
- 2) After the 1404 answers Press the * then the 0 then the maintenance code.
(Only the maintenance code can be used to re-program options)
- 3) When the last digit of the maintenance code is entered a "beep" will be generated indicating you have successfully entered the program mode. (See Note 4)
- 4) Programming of the options starts at Address 0 and progresses sequentially to the last digit of the Maintenance code which is at Address 9.

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.

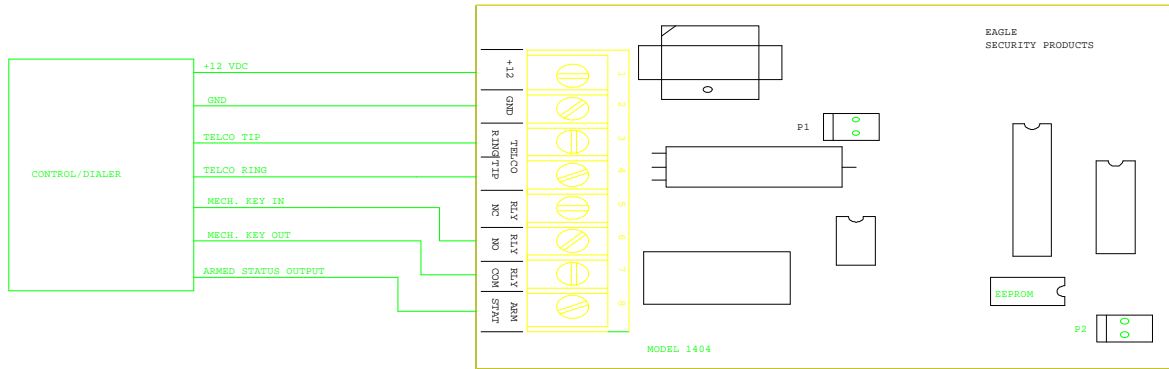
If all the options are to be changed (address 0 through 9) the 1404 will, when the last digit of the maintenance code is entered, generate a "beep" indicating the end of the program mode has been reached and the 1404 has exited the program mode. (See note 5)

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 the * then the # . This will save the changes, exit the program mode and cause a "beep" to be generated.

Note 4: 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 the * then the * again will exit the program mode without saving the changes and will cause a "beep" to be generated.

Note 5: Once you have exited the program mode you are back to the normal operating mode of the 1404. You can then Arm/Disarm the Control Panel or hang-up the 1404.



OPTIONS DESCRIPTION

Option 1 (Address 0):

Arm/disarm relay, momentary or alternating.

- 1 = Momentary.
- 2 = Alternating.

Option 2 (Address 1):

This option tells the 1404 how to interpret the SYSTEM STATUS INPUT.

- 1 = A voltage > 2 vdc means the Control Panel is NOT ARMED.
 A voltage < 2 vdc means the Control Panel is ARMED.
- 2 = A voltage < 2 vdc means the Control Panel is NOT ARMED.
 A voltage > 2 vdc means the Control Panel is ARMED.

Option 3 (Address 2):

Secondary access code.

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

NOTE: For options 4, 5 & 6, a 0 entered from the telephone is interpreted by the 1404 as a 10. If you are using a EEPROM programmer enter a 10 for these options not 0.

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Option 4 (Address 3):

Selects the activation time of the 1404's control relay if the relay is selected by Option 1 as momentary. Enter a number from 1 to 0.

The number entered is multiplied by 0.5 seconds.

Example: A 3 entered here will cause the control relay to close for 1.5 seconds.

Option 5 (Address 4):

Number of rings before the 1404 answers when Control Panel is ARMED.

1 to 0 = 1 - 10 rings respectively.

Option 6 (Address 5):

Number of rings before 1404 answers when Control Panel is NOT ARMED.

1 to 0 = 1 - 10 rings respectively.

Option 7

Maintenance Code Address:

- 6 - First digit
- 7 - Second digit
- 8 - Third digit
- 9 - Fourth digit

Primary Access Code Address:

- 10 - First digit
- 11 - Second digit
- 12 - Third digit
- 13 - Fourth digit

Secondary Access Code Address:

- 14 - First digit
- 15 - Second digit
- 16 - Third digit
- 17 - Fourth digit

COMMAND OPTION SUMMARY

Enter Program Modes:

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

Program Mode Control:

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

Normal Operating Mode:

- * * Hang-up the 1404.

DEFAULT OPTIONS ACCESS

The 1404 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 1404.

- 2) Momentarily connect the 2 pins of connector P2 of the 1404.
- 3) The default options as shown on the OPTIONS PROGRAM FORM are now loaded into the 1404.

OPTION DATA PROGRAM FORM

NEW PROGRAM DATA

DEFAULT DATA

Option	Data	Option	Data
-----		-----	
1	----- ____	1	----- 1 = Momentary
2	----- ____	2	----- 2 = < 2 vdc = NOT Armed
3	----- ____	3	----- 1 = Arm only
4	----- ____	4	----- 1 = .5 seconds
5	----- ____	5	----- 1 = 1 ring if Armed
6	----- ____	6	----- 2 = 2 rings NOT Armed
7	----- ____ ____ ____ ____	7	----- 1 2 3 4
	Primary Access Code	5 6 7 8	
	Secondary Access Code	9 1 9 2	

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