EAGLE SECURITY PRODUCTS, INC.

MODEL 1403 REMOTE CONTROL RELAY MODULE

INSTALLATION MANUAL

1.0 GENERAL.

The Model 1403 REMOTE CONTROL RELAY MODULE provides four SPDT relays which can be controlled from the central station. Two Model 1403's can be daisy-chained to provide eight (8) relay control outputs. Relays can be configured for momentary or latching operation; momentary delay can be programmed long or short. There is a master set and reset command.

2.0 REQUIREMENTS.

2.1 POWER.

Operating Voltage: 9 to 14 VDC.
Current Draw (standby): 20 mA.
Current Draw (all set): 170 mA.

2.2 SYSTEM

The Eagle Model 1403 requires the following hardware:

1) Eagle Two Way Audio Verification Module (1403 ready)
--- or ---
2) Eagle Remote Arm/Disarm Module (Models 1404 or 1407)

3.0 CONNECTIONS.

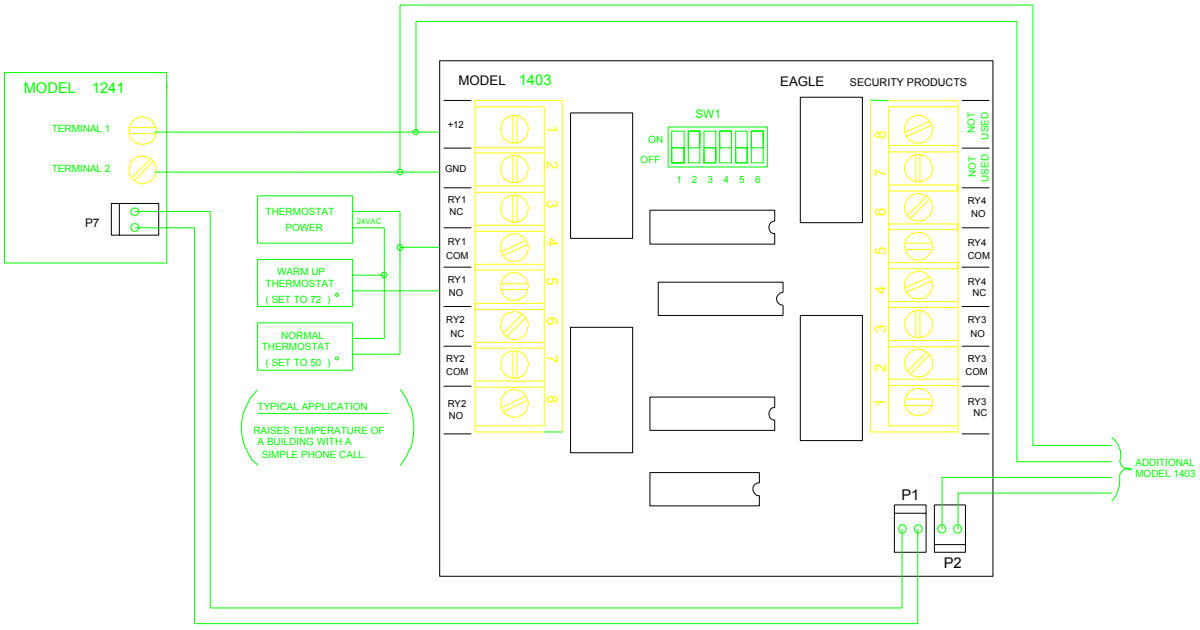
3.1 REQUIRED CONNECTIONS.

INTERCONNECT CABLE. Connect one end of the two conductor wire included with the Model 1403 to the "**IN**" connector on the Model 1403. Connect the other end of the cable to the "**1403**" connector on the 1250 or **P7** on the Model 1241 or to **P1** on the Model 1404. See appropriate manual to connecting Eagle modules for further instructions.

POWER CONNECTIONS. The Model 1403 requires +12VDC and GROUND connections. These connections may be made to any +12VDC supply available including the Model 1241 or Model 1404 terminal strips.

3.2 OPTIONAL CONNECTIONS.

MULTIPLE MODEL 1403's. If it is desired to use more than one (1) Model 1403, an additional Model 1403 may be interconnected via the two conductor cable in a daisy chain configuration. Connector P2 is the output on Model 1403 for additional modules. Connect P2 of the first module to P1 of the second module. BE SURE TO CONFIGURE EACH MODULE TO DIFFERENT NUMBER BANKS (1 through 4 or 5 through 8) FOR REMOTE CONTROL (See paragraph 4.1.)



4.0 CONFIGURATION.

4.1 MODEL 1403 DIP SWITCHES.

The dip switches on the Model 1403 may be configured to best suit the application. The adjustable parameters include momentary or latching; momentary duration; activation digits used.

SWITCHES 1 - 4: control whether the relay is momentary or latching.

SW1 - OFF = RELAY 1 LATCHING
ON = RELAY 1 MOMENTARY

SW2 - OFF = RELAY 2 LATCHING
ON = RELAY 2 MOMENTARY

SW3 - OFF = RELAY 3 LATCHING
ON = RELAY 3 MOMENTARY

SW4 - OFF = RELAY 4 LATCHING
ON = RELAY 4 MOMENTARY

SWITCH 5: Controls relay bank; high or low.

SW5 - OFF = RELAYS 1-2-3-4 (low bank)
ON = RELAYS 5-6-7-8 (high bank)

Switch 5 controls which four digits control the module. If switch 5 is OFF then commands 1 through 4 control the module. If switch 5 is ON then commands 5 through 8 control the module. If two modules are used, it is desirable to have one module on each setting thus giving eight (8) independent 'zones'. If both modules are set to the same range, then two relays will be activated with each command.

SWITCH 6: Controls momentary duration, if selected.

SW6 - OFF = MOMENTARY ACTIVATION DURATION = 350 mSEC
ON = MOMENTARY ACTIVATION DURATION = 1.5 SEC

5.0 OPERATION.

5.1 RELAY ACTIVATION / DE-ACTIVATION.

Once the communication link has been established via a Two Way Voice Module or a Remote Arm/disarm Module, the Model 1403 REMOTE CONTROL RELAY MODULE can be accessed and commanded via a Touch-Tone® command. Each command consists of two digits. The first digit is the [#]. This is followed by a single number ranging from [1] to [8]. Dip switch 5 sets which group of four numbers command the module. All valid and accepted commands are responded to with an acknowledgment 'beep'.

Example. If you have configured the module for a low bank (digits [1] through [4]) and you wish to activate relay three press [#] then [3] on the phone touch pad. If the command sent was a valid command and the module accepted the command, it will generate an acknowledgment 'beep'.

5.2 ACKNOWLEDGMENT BEEPS.

The Model 1403 generates two different acknowledgment beeps. The tone generated is dependent on the command sent and the state of the relay being commanded. If the relay is a momentary relay, then any valid activation will generate a 'beep bop'. If the relay is a latching relay then the state of the relay will determine the type of beep sent. If the relay is not currently set and a command is sent to set the relay, then the module will generate a 'bop, bop/beep'. If the relay is currently set and a command is sent to reset the relay, then the module will generate a 'beep bop' as an acknowledgment. Master set and master reset tones follow the latching tones. The following chart summarizes the acknowledgment beeps.

RELAY TYPE / COMMAND	CURRENT STATUS	TYPE OF BEEP
LATCHING	SET	BEEP / BOP
LATCHING	RESET	BOP, BOP / BEEP
MOMENTARY	N / A	BEEP / BOP
MASTER SET	N / A	BEEP / BOP
MASTER RESET	N / A	BOP, BOP / BEEP

5.3 MASTER SET / RESET COMMANDS.

The Model 1403 has two commands which are master set and reset commands. The master set command will set or activate ALL relays. This includes momentary and latching relays. A momentary relay will energize for the duration to which it is programmed (see switch 6). Latching relays will latch into their energized state. Any relays which are already in their energized state when the master set command sent will not be effected.

The master reset command will de-activate or de-energize ALL latching relays. That is, all relays which are energized will be de-energized after the master reset command. The master reset command does not effect relays which are programmed momentary.

Both the master set and reset commands are two digit commands. The master set command is a [#] followed by an [*]. The master reset command is a [#] followed by another [#].

COMMAND SUMMARY

COMMAND	FUNCTION
[#] '*number*'	Commands relay identified by '*number*' to set or reset
[#] [#]	Master RESET
[#] [*]	Master SET

Features and specifications subject to change without notification.

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DEALER NAME ..... PHONE NO. (.....) .....
ADDRESS ..... FAX NO. (.....) .....
CITY/STATE ..... ZIP ..... CONTACT .....

SHIP TO ..... SHIP REPAIRED PRODUCT VIA:

..... UPS UPS BLUE UPS RED

YOUR FED-EX # .....

SECTION 2 (TO BE COMPLETED BY DEALER)

LINE #	PART NUMBER	DESCRIBE PROBLEM	COSMETIC REPAIR (Y/N)
1			
2			
3			

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