
EAGLE SECURITY PRODUCTS, INC.



Model1280

FalseAlarmTerminator™ AdvantagePlus
(P/N301280)

256ZONETWOWAYAUDIO
WITHINTERFACETODMPPANELS

INSTALLATIONINSTRUCTIONS



“LEADERSINTWOWAYAUDIOTECHNOLOGY”

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1.0 FEATURES.

The Model 1280 Eagle Terminator™ Advantage Plus features include:

- ◆ Eight Microphone/Speaker zones expandable to 256 zones with optional Model 1281 Eight Zone Expansion Modules.
- ◆ Supervised expansion modules.
- ◆ Quick, convenient terminal connectors.
- ◆ Individually controlled (switched) zones.
- ◆ Individual microphone gain and speaker volume control.
- ◆ Up to four, two wire, non-shielded, microphones per zone.
- ◆ Eagle's Enhanced Voice for extraordinary clarity in talk back mode.
- ◆ Central station detection with automatic disconnect upon central station receiver hang-up.
- ◆ Compatibility with all digital communicators and control panels.
- ◆ Activation by auto-trip which requires no hard trigger from the control panel.
- ◆ Answering machine, Voice Messaging and/or downloadable communicator bypass.
- ◆ Remote volume control of the microphone from the central station.
- ◆ Integrated siren driver.
- ◆ Direct interface to DMP Model 200 & 500 panels for automatic zone switching.

2.0 REQUIREMENTS .

2.1 POWER.

Operating voltage: 12VAC or VDC

Current draw (standby): 51 milliamps.

Current draw (active): 133 milliamps, plus 30 milliamps for each active zone plus 2 milliamps for each 2172.

Max. current (active, no siren, no Model 1281's): 390 milliamps.

Current draw (siren): 125 milliamps/speaker

2.2 SYSTEM.

The Model 1280 Eagle Terminator™ Advantage Plus requires the following hardware:

1. A communicator/control panel, to provide initial communication with the central station. The built-in interface to the DMP Models 200 & 500 allows for instant zone(s) in alarm information.
2. 12VDC power supply. **An Eagle Model 1262 Power Supply is recommended especially if battery backup is required**, a good reliable Earth Ground connection and Telco (Tip & Ring) connection.
3. A minimum of one speaker/microphone (Eagle Model 2172 For 2172S).

The Central Station requires the following:

1. Touch-Tone phone in parallel with the receiver line if used in the line hold mode.
2. A receiver with two way capability (stays on line after kiss off).
3. An Eagle Model UTA™ (Universal Two Way Automation Interface where applicable) is recommended.

3.0 INSTALLATION.

3.1 INSTALLATION SUMMARY.

1. Mount the Model 1280 and 1281's.
2. Run two 4 conductor cables between the 1280 & 1281, one for DATA and one for AUDIO. For runs of 100' or less, a 4 conductor 22 awg shielded/twisted pair cable is recommended. For longer runs up to 1000' use 18 awg shielded/twisted pair cable.
3. Connect street telephone line connection to "TELCO".
4. Connect telephone connections from control panel or dialer to "DIALER".
5. Mount all Eagle Model 2172 speaker/microphones.
6. Run a two or four conductor cable (two if using just one and no speaker or vice versa or four if using both) to each 2172 speaker/microphone location. Cable types and distance rules are the same as step 2 above.
7. Speakers & Microphones are reconnected in pairs by zone. Example: MIC1/SPK1, MIC2/SPK2 etc.
8. Connect Earth Ground to terminal strip. Connect power & system ground to terminal strip.
9. Program the address of each Model 1281 using the position DIP switch located on each Model 1281.

10. Program the EEPROM options on the Model 1280 using either a local phone or by calling it from an outside phone.

3.2 PROGRAMMABLE OPTIONS DESCRIPTION.

The Model 1281 has many modes of operation. It can be custom configured for each installation. The following is a description of each of the options.

Option 1: Activate immediately on ringing call back mode for 5 minutes

- 1 = Activation of auto or manual trips causes the module to connect immediately in the line hold (link mode). This is the most widely used mode.
- 2 = Activation of auto or manual trips causes the module to connect in its five minute onering call back mode. In this mode the 1280 will pick up on the FIRST ring during a five minute window initiated by the activating input.

DEFAULT= 1 Answer immediately.

Option 2: Central Station Detection

- 1 = The auto disconnect feature is enabled. The module will automatically disconnect if the receiver disconnects before the central station operator picks up the line. This feature requires a called party disconnect signal from the local central office.
- 2 = The auto disconnect feature is disabled.

DEFAULT= 1 (ENABLED)

Auto disconnect also detects when an operator hangs up within first disconnecting the 1281 and immediately hangs up. This feature is always active and is not controlled by Option 2.

Option 3: Subsequent Alarm Handling

- 1 = Subsequent Alarms will not shutdown 1280. Two Way will remain active.
- 2 = Subsequent Alarms will shutdown 1280 & allow alarm to report.

DEFAULT= 1 (WILL NOT SHUTDOWN)

This option ONLY determines the way the 1280 processes a subsequent alarm BEFORE the central station operator picks up on the call. Once the CS operator picks up and pre-empted as a dig it/she has control and a "NEW ALARM" message will be played upon its occurrence allowing the operator 30 seconds to determine whether or not to terminate the call or allow the two-way session to continue. Pressing a 9 terminates the call, pressing any other digit allows the two-way session to continue. If the operator does not press any digit the 1280 will automatically hang up 30 seconds after the "NEW ALARM" message.

Note: If a zone alarm has been received from the DMP panel Option 3 is ignored.

Option 4: Call Back Acknowledge Sequence for 5 minutes to Call Back Mode

- 1 = Single * will access
- 2 = * 5 5 * will access
- 3 = Custom code only will access (Options 14 and 15)

DEFAULT= 2 - (* 5 5 * WILL ACCESS)

This option determines which sequence of Touch Tone digits will acknowledge the 1280 in the onering call back mode, (established after an alarm activation or the operator disconnected the 1280 in the previous audio session using an 8).

Note: Program or User access codes are always required if the 1280 is called and it is programmed to be in the full time call answer mode and ___ it is not in the 5 minute call back mode.

Option 5: Voice Message Bypass

- 1 - 9 = Selects the number of rings required to set up the 1280 for Voice Messaging Bypass.
- 0 = Option disabled.

DEFAULT= 0 (OPTION DISABLED)

Primarily used to bypass the Voice Messaging answering service provided by most telephone companies, this feature can also be used when another device such as the alarm control panel or an on-premise answering machine is in parallel with the 1280 and also has an auto answer function.

To use this feature, call the 1280 and allow the phone to ring for as many times as programmed in Option 5. Hang up, wait at least 10 seconds, but no longer than 45 seconds and then call back. The 1280 will answer on the first ring and wait 15 seconds for the acknowledge sequence (Option 4). The callback window is open for 60 seconds after the last ring. **Note:** If Option 5 is used, disable Option 6.

Option 6: Full Time Answer Mode

1-9 = Select the number of rings before the 1280 will answer an incoming call.
0 = Option disabled.

DEFAULT = **1** (FULLTIMEANSWERMODE=1, answer in 1 ring)

This Option determines the number of rings required before the 1280 will answer when in the full time answer mode. After the 1280 answers, it will wait 15 seconds for the acknowledge sequence (see Option 4) before hanging up.

Option 7: Local Phone Access Code

(First digit is fixed as an *****.) Used to access programming mode using an on-premise telephone.

Any two digits, **0-9** (number only) may be programmed for these second two digits of the Local Access Code.

DEFAULT = **55** (This results in the actual Local Access Code of ***55**).

The local access code can be one or three digits long depending upon how Option 7 is programmed. If a **0** is programmed for the first digit then a single ***** will access the 1280. If the first digit is a number other than **0** then the second number must also be programmed and used in accessing the 1280.

Option 8: Zone Operation

1 = As new zones are selected (turned on) previously selected zone(s) stay connected until manually turned off.
2 = When a new zone is selected the previously selected zone will turn off.

DEFAULT = **2**

Note: Option 8 applies to zones selected by the operator only. When zones are received from the DMP panel the previous zone always turns off.

Option 9: Hangup Operation

1 = A single **8** or **9** will hang up the 1280.
2 = A double entry of an **8** or **9** is required to hang up the 1280. Example: **88** or **99**

DEFAULT = **1**

Option 10: Operator Voice Prompts

1 = The full set of prompts are replayed to the central station operator when the 1280 is active.
2 = A limited set of prompts are replayed.

Note: Specifically if a **2** is programmed for this option the prompt "Model 1280 is active with listen mode selected" will be shortened to "Model 1280" and the prompt "Select Zone" & "Select Zone Bank" are returned off.

DEFAULT = **1**

Option 11: Total # of 1281 Zone Expanders in this System

Two digits **00-31**

DEFAULT = **00**

Tells the 1280 how many 1281's are in the system. If a 1281 is added or removed this option must be adjusted to reflect the change. If programmed to the wrong number of 1281's the 1281 supervision will be adversely affected.

Programming for this option will disable the 1281 supervision feature but still allows the use of expansion modules.

Option12: Trigger/EnableInputFunction

- 1 =Trigger/EnableinputbecomesaManualTRIGGER.
- 2 =Trigger/EnableinputbecomesanENABLEfortheAuto Triggerfunction.

DEFAULT= 1

If an output is available on the alarm panel that changes state precisely at the moment the panel hangs up and meets all your other requirements, such as only changes state when panel is in alarm, select 1 for this option and connect that output to the 1280's Trigger/Enable input .

If the Auto trigger is being used and you do not want the 1280 to activate for conditions other than actual alarm conditions and an output from the control panel is available indicating same, select 2 for this option and connect the enabling output to the 1280's Trigger/Enable input.

Option13: Trigger/EnableInputDuration

- 1 =Trigger/EnableinputisMomentary
- 2 =Trigger/EnableinputmustbeContinuous.

DEFAULT= 1

If a 1 is programmed for this option the Trigger/Enable input, if selected as a TRIGGER 1 in Option 12, need only be present for a minimum of 100 milliseconds to trip the 1280. If the Trigger/Enable input is selected to be an ENABLE 2 in Option 12 a three minute window opens with the momentary activation of the Trigger/Enable input. The Auto Trip will only function during that three minute window.

If a 2 is programmed for this option the Trigger/Enable input, if selected as a TRIGGER 1 in Option 12, must be present until the operator comes online and presses a DT MF digit. If the input goes away before the operator comes online the 1280 will de-activate. If the Trigger/Enable input is selected as an ENABLE the input must remain active (be present) until the Auto Trip input is activated.

Option14: "AUDIOOUT" FUNCTION

- 1 = "AudioOut" output is used to record all two-way audio sessions.
- 2 = "AudioOut" output is used to supply Paging (All Call) audio.

DEFAULT= 1

If a 1 is programmed for this option the "AudioOut" output will supply both the (Listen Mode) & (Talk Mode) audio to a recording device, such as a VCR, whenever a two-way session is in progress.

If a 2 is programmed for this option the "AudioOut" output will supply the (Talk Mode) audio to a paging system, such as an intercom, whenever the operator has selected to turn on all the speakers. See Paging (All Call) 5.4.1.

Option15: Program Access Code

Any four digits, 0000 through 9999 (numbers ONLY) may be programmed.

DEFAULT= 1 2 3 4

After the 1280 is online, by any method, this code can be used to re-program the 1280's options or re-program itself. It cannot be used to access the two-way audio functions.

Option16: User Code

Any four digits, 0000 through 9999 (numbers ONLY) may be programmed.

DEFAULT= 5 6 7 8

This option allows the User to call in at any time, provided the Full Time Answer Mode is programmed, and access the Model 1280. Once accessed by the User Code the two-way audio controls are enabled and the User Code can be used to re-program itself. It cannot re-program the Program Access Code or any system options. The User Code cannot be accessed while in the Option Program Mode. It can only be programmed via the Access Code Change Mode.

PROGRAMSHEET

Option	Default	Your Number	Data Description	Summary
1	1	__	Activate immediate ring callback mode.	1=Immediate 2=Callback
2	1	__	Detect central station hangup.	1=Yes 2=No
3	1	__	Hangup immediately with new alarm.	1=No 2=Yes
4	2	__	Acknowledgement code.	1=*; 2=*55*; 3=Usercode
5	0	__	Voice message bypass.	0=Disable 1-9=rings
6	1	__	Number of rings in callback mode.	0=Disable 1-9=rings
7	55	_____	LocalPhone access code.	(any two digits)
8	2	__	Zone operation.	1=all zones 2=1 zone
9	1	__	Hangup operation.	1=Once 2=Twice
10	1	__	Operator voice prompts.	1=Full 2=Limited
11	00	_____	Number of 1281 zone expanders.	00-31
12	1	__	Trigger/Enable input.	1=Trigger 2=Enable
13	1	__	Trigger/Enable input duration.	1=Momentary 2=Continuous
14	1	__	Line level record page.	1=Record 2=Page
15	1234	_____	Program access code	
16	5678	_____	User access code. (Not accessible in above)	

3.3 PROGRAMMING OPTIONS.

3.3.1 ACCESSING the Model 1280 for Programming.

There are three methods available for accessing the Model 1280. They are:

- LOCALPHONE ACCESS:** This method uses a local (on-premise) Touch-Tone[®] phone to access and program the 1280. Local access only works with the phone connected directly to TELCO (not through the dialer). To access the Model 1280, pick up the phone and enter the **LocalPhone Access Code** (default is *55). When the 1280 answers, the message "**Enter Access Code**" will be heard. If you enter the **Program Access Code** (default is 1234) the message "**Access Code Accepted**" will be heard. If you enter the **User Access Code**, (default is 5678) on purpose or by mistake, the message "**Model 1280 is Active With Listen Mode Selected, There are No Zones Active**".
- REMOTE PHONE ACCESS:** The 1280 is defaulted with the full time answer mode active and set for one ring detection. Call the Model 1280 from a remote Touch Tone telephone and it will answer on the first ring. Enter either the Program or User access code. The corresponding message as described above for Local Access will be played.
- ACTIVE TWOWAY ACCESS:** In addition to the above, the program mode can be accessed any time the 1280 has been tripped and a two-way session is in progress.

3.3.2 PROGRAMMING AFTER ACCESSING UNIT.

Once the unit is online you are ready to access program in g mode. From this point forward the procedure is independent of how you accessed the module.

After gaining access to the module, enter the programming mode by entering ***0**. The message **"Program Change Mode, Enter Program Access Code"** will play.

Now enter the Program Access Code. The default is **12345**. The message **"Enter New Options"** will play. If you enter the User Access Code by mistake the message **"Try Again"** will play.

Enter the options starting with Option 1. All options must be entered in sequence independent of the number of actual changes. If you make a mistake, press ***** to start over.

To exit the "Enter New Option" mode and save the changes you made press ***#**.

To leave the "Enter New Options" mode without saving changes press ******.

When the program mode is exited the message **"New Programs"** will be heard followed by the playback of the new option status. Changes take effect upon exiting programming mode. You do not need to power down the unit. To re-play the options (within an 8 second window after leaving the program mode) enter ***#**. Once the playback has commenced allow it to finish with all the new option status before disconnecting and hanging up the phone.

If you have connected to the 1280 directly using a local phone disconnect by entering **9** then hang up. If you are connected remotely, be careful, as pressing **9** will hang up the 1280.

3.3.3 PROGRAMMING PROGRAM & USER ACCESS CODES.

Anytime the 1280 is online you can re-program the Program or User Access Codes by pressing ***9**. The message **"Code Change Mode, Enter Access Code"** will play.

Enter the code, Access or User, you wish to change. The message **"Enter New Access Code"** will play. Now enter the new code. The message **"New Access Code Is"** followed by the new code.

3.3.4 DEFAULTING THE UNIT.

If you get lost in the programming and need to reset the unit to its default programming, momentarily short the two pins labeled DEFAULT.

TABLE 1: PROGRAMMING TOUCH-TONE ® COMMAND SUMMARY.

COMMAND	FUNCTION
*0	TO ACCESS PROGRAMMING MODE
*9	TO CHANGE PROGRAM & USER CODES ONLY
*#	TO EXIT PROGRAMMING MODE AND SAVE CHANGES
**	TO EXIT PROGRAMMING MODE WITHOUT SAVING CHANGES
*	TO RE-START PROGRAMMING FROM BEGINNING
9	IF PROGRAMMING LOCALLY, TO EXIT PROGRAM MODE

3.5 WIRING

3.5.1 "DMP INTERFACE" RJ45 JACK.

Plug the double ended eight wire phone cable (RJ-45) into this jack and the into the corresponding jack on the DMP462 module.

3.5.2 "DATA" TERMINAL STRIP.

The Model 1280 can connect to up to 31 - Model 1281 Eight Zone Expansion Modules for a total of 256 zones including the 8 that are on the 1280 itself. The "DATA" terminal strip connects the data control signals

from 1280 to the 1281's. The interconnection between the 1280 & 1281's can be done in any combination of serial/parallel. The cable does not have to "daisy chain" from one module to the next.

If shielded cable is used, connect the shield at the EARTH GND terminal of the 1280 and to EARTH GND on the 1281(s) terminal strip. Confirm that all Earth Grounds have a good electrical connection to either a grounded copper cold water pipe, grounded electrical conduit or a ground rod.

GND: Connect to the GND terminal (next to EARTH) on all the 1281(s).

DATA: Connect to the "DATA" terminal on the 1281(s).

CLOCK: Connect to the "CLOCK" terminal on the 1281(s).

ACK: Connect to the "ACK" terminal on the 1281(s).

3.5.3 "AUDIO" TERMINAL STRIP

The "AUDIO" terminal strip connects the audio signals, microphone & speaker (including siren) from the 1280 to the 1281(s). The interconnection between the 1280 & 1281's can be done in any combination of serial/parallel. The cable does not have to "daisy chain" from one module to the next.

If shielded cable is used, connect the shield at the EARTH GND terminal of the 1280 and to EARTH GND on the 1281's terminal strip. Confirm that all Earth Grounds have a good electrical connection to either a grounded copper cold water pipe, grounded electrical conduit or a ground rod.

GND: Connect to GND on all 1281's "AUDIO" terminal strip.

SPK'S: Connect to "SPK'S" on all 1281's. This provides the audio to the speaker drivers on the 1281(s).

SIREN: Connect to "SIREN" on all 1281's. This provides the alarm tone to the speaker drivers on the 1281(s).

MIC'S: Connect to "MIC'S" on all 1281's. This feeds the microphone audio from the 1281(s) back to the 1280.

3.5.4 "DIALER" RJ45 JACK (Black).

The telephone lines must pass through the Model 1280 before going to the communicator.

T1: Connect T1 from the control panel/communicator; usually the BROWN wire.

T: Connect T from the control panel/communicator; usually the GREEN wire.

R1: Connect R1 from the control panel/communicator; usually the GRAY wire.

R: Connect R from the control panel/communicator; usually the RED wire.

3.5.5 "TELCO" RJ45 JACK (White).

T1: Connect T1 from the RJ-31X; usually the BROWN wire.

T: Connect T from the RJ-31X; usually the GREEN wire.

R1: Connect R1 from the RJ-31X; usually the GRAY wire.

R: Connect R from the RJ-31X; usually the RED wire.

CAUTION! PROPER POLARITY MUST BE OBSERVED FOR PROPER OPERATION. INCORRECT TELEPHONE CONNECTION WIRING MAY CAUSE ERRATIC OPERATION!

3.5.6 AUDIO ACTIVE RELAY & CONNECTOR (6 PIN PIGTAIL).

The Audio Active Relay provides switching for external devices when the module activates & de-activates. The relay is energized (changes state) automatically when the module is activated. The relay returns to its de-energized state when the module is shutdown.

TABLE 2 RELAY CONNECTOR-RELAY WIRING CONNECTIONS.

WIRE	CONNECTION
BROWN	Common 1; max. 5amps
RED	Normally Closed 1
ORANGE	Normally Open 1
YELLOW	Common 2; max. 5amps
GREEN	Normally Closed 2
BLUE	Normally Open 2

3.5.7“MIC&SPK”TERMINALBLOCKCONNECTIONS.

MICX,SPKX: Microphoneandspeakerzone(s)1,2,3,etc.Eachmicroph oneandspeakerrequiretwoires each.TheMIC&SPKinputsarenot__polaritysensitive.The“ X”isazonenumber,andeachMIC&SPKare selectedasaZONE.Forexample, MIC1 or SPK1 aselectedas Zone1 etc.Runatwoorfourconductor cable(twoifusingjustamicrophoneandnospeakeror visaversaorfourifusingboth)toeach2172 speaker/microphonelocation.

Forrunsof100’orlessa2or4conductor22AWG.shie lded/twistedpaircableisrecommended.Forlonger runsupto1000’use18AWGshieldd/twistedpaircable.

3.5.8“OTHER”TERMINALBLOCKCONNECTIONS.

DC:Powerinput.12VDC.Observepolarity.

EARTH:Earthgroundconnection.MUSTBECONNECTEDTOENSURE PROPERLIGHTENINGand ELECTRICALNOISEPROTECTION.WARRANTYVOIDIFNOTC ONNECTED!ExamplesofgoodEARTH GROUNDsourcesareacoldwaterpipeorthegroundona nelectricaloutlet.

MICACTIVERELAY: Twoterminalsconnectedtothenormallyopen(N.O.)dr ycontactsofarelay.Therelayisactive (contactsclosed)wheneveramicrophoneisselected andtheModel1280isintheListenmode.Thestateofthe relayis indicatedbytheredLEDlabeled“MICISACTIVE”.Rel aycontactsareratedfor100milliampsat12VDC.Use the se terminalstoturnonalighttowarnoccupantsthatam icrophoneisopen.

MISSINGEXPNDRELAY: Twoterminalsconnectedtothenormallyopen(N.O.)dr ycontactsofarelay.Therelayis active(contactsclosed)wheneverthe1280detectsthatoneo rmoreofthe1281sarenotrespondingtopollsfrom the 1280.ThestateoftherelayisindicatedbytheredLED labeled“MISSINGEXPANDER”.Relaycontactsareratedf or 100milliampsat12VDC.Usese terminalstotripasu pervisoryzoneonthealarmpanel.Theoperatorcan interrogatethe1280tofindoutwhichexpander(s)ar entresponding.Seesection

ALARM&(-): Thesetwoterminalsareusedtoactivatethebuilt-inS irenDriverofthe1280.Asetofcontacts connectedacrossthesetwoterminalsoragroundapplied totheALARMterminalwillactivatethesirendriver foraslongastheinputispresent.Allspeakersconnected toeitherthe1280orthe1281’swillsoundthealarm tone.TheSirenDriverautomaticallyturnsoffduringa naudiosession.

TRIGGER/ENABLE: DependingonhowOption11isprogrammedthetwote rminalslabeled, IN&(-) canbe usedtoeitherdirectlyTriggerthe1280orEnablethe AutoTripfunction.Asetofcontactsconnectedacross thesetwoterminalsoragroundappliedtothe INterminalwillactivatethefunctionprogrammed.SeEO ption11 formoredetail.

AUDIOOUT: ThetwoterminalsabeledAUDIOOUT(+)&(-)provid ealinellevelaudiooutput.Dependinon howOption14isselectedthisoutputcouldthenbeconne ctedtoaaudiorecordingdevice(Option14= 1)or anintercomsystemforpaging(Option14= 2).Thesignalpresentattheseterminalswillincludeb oththe microphoneaudio(listenmode)aswellastheaudiofro mtheCentralStation(talkmode)whenusedfor recordingandjustthe(talkmode)audiowhenusedfor paging.

3.6CIRCUITBOARDDESCRIPTION

3.6.1DEFAULTHEADER

ThetwopinDEFAULTHEADERlocatednexttotheMicro processorareusedtorestoretheEEPROMbacktothe factorysettingsbymomentarilyshortingthetogether.

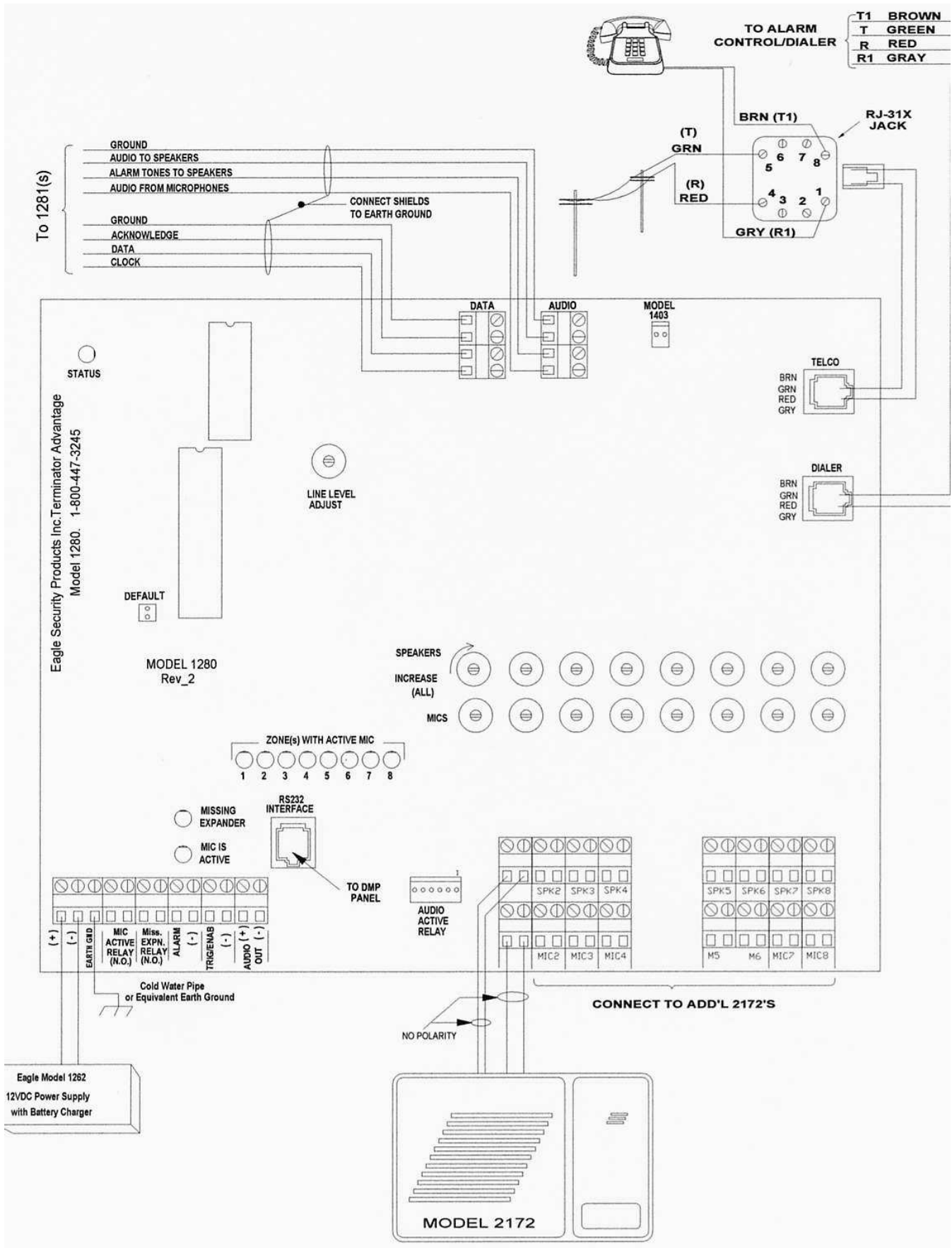
3.6.2STATUSLED.

TheModel1280featuresastatusindicatorLEDbywhicha techniciancandeterminethecurrentstatusofthemodul e. Thefollowingchartsummarizesthefivedifferentmodes.

TABLE3LEDSTATUSINDICATOR.

#OF FLASHES EVERY FIVE SECONDS	MODE
1 (ONE)	STANDBYOPERATION ,WAITINGFORACTIVATION
2 (TWO)	ONERINGCALLBACKMODE ,WAITINGFORRING
3 (THREE)	ONERINGCALLBACKMODE ,WAITINGFORACKNOWLEDGMENTCODE .
4 (FOUR)	T RIGGERED. WAITINGFORCSTOSENDCOMMAND .
STEADY ILLUMINATION	TWOWAYACTIVE .

DIAGRAM1: WIRING SCHEMATIC-MODEL 1280.



3.6.3 MISSING EXPANDER LED

This LED indicates the status of the Missing Expander relay. If the relay is energized the LED is ON.

3.6.4 MIC IS ACTIVE LED

This LED indicates the status of the Mics Active relay. If the relay is energized the LED is ON.

3.6.5 EIGHT (8) ZONE(S) WITH ACTIVE MIC LED'S

These 8 LED's indicate which zones have an active (open) microphone.

Note: These LED's indicate MIC status only when the 1280 is in the Talk Mode these LED's turn OFF.

3.7 ADJUSTMENTS.

3.7.1 MICS & SPEAKER (X) Potentiometers

Used to adjust the gain of each microphone input & volume of each speaker output (where "X" is the zone number); Turning the potentiometer clockwise increases gain/volume; counterclockwise decreases gain/volume.

3.7.2 AUDIO OUT Potentiometer

Used to adjust the amplitude of the signal at the AUDIO OUT terminals.

3.8 SPEAKER/MICROPHONE INSTALLATION.

3.8.1 COVERAGE.

A speaker/microphone can cover a range of up to 2500ft² dependent on the environment in which they are installed.

3.8.2 WIRING REQUIREMENTS.

Runs of less than 100 feet may be made with standard 4 conductor 22 awg wire. Shielded/twisted pair cables are recommended for microphone wires on runs of 100 to 1000 feet. The audio and data must be run in separate cables.

3.9 COMMUNICATOR PROGRAMMING.

When programming the control panel/digital communicator, it is advised to begin the "TELEPHONE NUMBER" with "*70" (tonedialing) or "1170" (pulsedialing). This will allow uninterrupted communication when the subscriber has call waiting.

4.0 ACTIVATION.

4.1 IMMEDIATE ACTIVATION.

When Option 1 is programmed with 1 the 1280 will activate immediately whenever a trigger is received on the TRIGGER/ENABLE input (if programmed as a trigger) or when the unit's AUTO-TRIP activates (dialer goes off-hook/on-hook). The STATUS LED will flash four (4) times every five seconds to indicate that the unit has been activated in the line-hold mode and is waiting for an operator to press any touch tone digit. Once the operator presses a touch tone digit, normally a 2, the LED will change to ON STEADY and will stay on until the 1280 is hung up.

The operator can now control the operation of the mode using a Touch-Tone ☎ phone as per Paragraph 5.0.

NOTE: THE CENTRAL STATION RECEIVER MUST BE CAPABLE OF A "LISTEN-IN" FUNCTION, I.E., THE RECEIVER MUST HOLD THE PHONE LINE OPEN UNTIL AN OPERATOR CAN PICK UP THE LINE. THE EAGLE UNIT CAN PROVIDE THIS FUNCTION IF YOUR RECEIVER CANNOT. CONTACT EAGLE FOR INFORMATION.

4.2 ONE RING CALLBACK & ALWAYS ANSWER.

When Option 1 is programmed with 2, the 1280 will not activate immediately with a trip from either the TRIGGER/ENABLE input or from the Auto Trip, but instead will go into its "One Ring Call Back" mode. When activated in this mode the STATUS LED will flash twice every five seconds. In this mode the 1280 will wait for five minutes (after a trigger or auto-trip), for the phone to ring. If the phonerings within the five minutes, the 1280 will answer on the first ring. In this and the "Always Answer" mode.

mode when the 1280 detects a ring, it will pick up the phone. The STATUS LED will flash three flashes every five seconds from the central station operator.

line and the message **“Enter Access Code”** will play. To indicate it is waiting for an Access code to be entered

The operator has 15 seconds to enter the acknowledgment sequence code. If not sent in 15 seconds, the 1280 will hang-up and minutes.

quence. (See Option 8 Acknowledge sequence). If the continue in the onering callback mode for an additional five

When the correct code is received, the system will play the

message **“Model 1280 is active...”**

The operator cannot control the operation of the mod

ule using a Touch-Tone[®] phone as per Paragraph 5.0.

4.3 CENTRAL STATION DETECTION.

The Model 1280 features central station detection with auto-disconnect. This feature allows the module to detect if the central station receiver has dropped off the line (hung up) before the central station operator has picked up the Touch Tone phone and pressed a digit (normally a **2**). If the module detects a receiver linedrop, it will shut down and enable the 5 minute callback window. Detection takes about 15 to 20 seconds. (This feature works in most areas in the United States. Installations in some rural areas may not be able to utilize this feature due to old central office equipment. If this feature is not available, the module will function properly, but without the central station detection feature.)

Additionally, if the central station operator fails to send a shutdown command (**9** or **9**) to disconnect the 1280 before hanging up themselves, the Model 1280 will automatically hang up within 15 to 20 seconds.

Call waiting may cause erratic operation with this feature. In areas where call waiting cannot be disabled and the premises has call waiting, it is recommended to disable central station detection (OPTION 2 set to **2**).

5.0 CONTROLLING THE TWO WAY SESSION

5.1 SWITCHING BETWEEN TALK & LISTEN.

After the 1280 has been successfully activated the operator can control the operation of the system using a Touch Tone phone in the following manner:

NOTE: CONTROL TONES CANNOT BE DECODED WHILE VOICE MESSAGES ARE PLAYING.

To switch to “LISTEN ONLY, HIGH GAIN”, press and release digit **3**. To switch to “LISTEN ONLY, NORMAL GAIN”, press and release digit **2**. To switch to “TALK ONLY”, press and release digit **1**. The operator can switch back and forth between these modes as often as one wishes independent of the mode in which the module was in when activated.

CAUTION: IF THERE IS A LOUD, CONTINUOUS BACKGROUND NOISE, SUCH AS A RADIO, THE CENTRAL STATION OPERATOR SHOULD NOT ATTEMPT TO INCREASE THE GAIN OF THE USING A **3. THIS MAY CAUSE THE SYSTEM TO LOOSE THE ABILITY TO RECOGNIZE THE TONES FROM THE CENTRAL STATION. IF THE MODULE “LOCKS-UP” INTO THE “LISTEN ONLY, HIGH GAIN” MODE, PRESS AND HOLD DIGIT **2** FOR A MINIMUM OF FIVE (5) SECONDS. THIS SHOULD UNLOCK THE MODULE. REPEAT IF NECESSARY.**

5.2 EXTENDING & DISCONNECTING.

The Model 1280 provides five (5) minutes of two way communication which get extended to a new five minute window each time a Touch-Tone[®] digit is pressed. The 1280 provides two disconnect warnings. At four (4) minutes thirty (30) seconds, the 1280 will play the message **“WARNING Will Hang Up in 30 Seconds.”** At four (4) minutes forty five (45) seconds the message **“WARNING Will Hang Up in 15 Seconds”** will play. At five (5) minutes the message **“Good-bye”** will play and the 1280 will hang up. To extend the listen shut down time (reset to five (5) minutes), without changing the listen/talk status press and release digit **7** at any time during the two way. To shut down the module, press and release digit **9** or **9 9** (see Option 9) at any time. Before the module shuts down it will play the **“Good-bye”** message indicating it is disconnecting. To shut down the module and initiate the five minute callback window, press and release digit **8** or **8 8**. This will allow the central station or any other party to callback, during the 5 minute window, and have an active two way session. (This is beneficial when a home or business owner wishes to have an active two way session after the central station has finished, and the always answer option has not been selected). Every time either a shut-down command is sent, an **8** or a **9**, the 1280 will play the **“Good-bye”** message. This alerts the central station that the command was received and the 1280 will hang up.

5.3 SUBSEQUENT ALARM REPORTING. (When NOT Connected to a DMPP Panel.)

The Model 1280 has provisions for subsequent alarm report capability of selecting what will happen when a subsequent alarm occurs. Subsequent alarm reporting has two options which are sel

ing. This provides the central station operator with the alarm occurs while at two ways session is active. ected by OPTION 3.

If OPTION 3 has been programmed with a

[2], the Model 1280 will hang up for a subsequent alarm

prior to the central station operator picking up on the line.

If OPTION 3 has been programmed with a

[1], the Model 1280 will NOT hang up for a subsequent alarm

prior to the central station operator picking up on the line.

Note: Whenever the 1280 hangs up it automatically generates

at a two second "Flash Hook" to obtain a new dial tone for the dialer.

If the operator is on line and a new alarm occurs the subsequent alarm is pending by playing the message nothing and ignore the warning, the 1280 will disconnect if the operator wishes to ignore the subsequent alarm, the operator sends the "EXTEND" command (a Touch Tone [7] on the touch tone phone). If the operator wishes to allow the subsequent alarm to report immediately, a Touch Tone [9] or [9] [9] is sent by the operator which shuts down the 1280 and al

low the subsequent alarm to report. 1280 will always stay on line and the operator is notified that a "Warning, there is a new alarm to report". If the operator does not act in 30 seconds allowing the subsequent alarm to report. If the operator sends the "EXTEND" command (a Touch Tone [7] on the touch tone phone). If the operator wishes to allow the subsequent alarm to report immediately, a Touch Tone [9] or [9] [9] is sent by the operator which shuts down the 1280 and al

WARNING: If your communicator/panel DOES NOT sense a dial tone before dialing, a two second pause is required before dialing to provide adequate time for a fresh line to be restored.

5.3.1 SUBSEQUENT ALARM REPORTING. (When CONNECTED to a DMPPanel.)

When the Model 1280 is connected to a DMP panel and has been activated it will ignore reactivation attempts from either the Auto or Manual trips. Instead, it will automatically turn on the new zone and announce that new status by voice message to the operator. The operator can replay the zone status anytime by pressing [*] [5].

5.4 SPEAKER & MICROPHONE ZONE CONTROL.

The Model 1280 has provisions for independently controlling each speaker-microphone zone. There are eight speaker-microphone zones on the 1280. Each Model 1281 Expansion Module contains an additional eight zones. Up to 31 Model 1281's may be added for a system total of 256 zones.

TABLE 4 MODE & STATUS TOUCH-TONE ® COMMAND SUMMARY.

COMMAND	FUNCTION
[1]	TALK ONLY
[2]	LISTEN ONLY
[3]	HIGH GAIN LISTEN ONLY
[7]	RESET SHUTDOWN TIMER or IGNORE SUBSEQUENT ALARM
[8] or [8] [8]	SHUTDOWN MODULE & INITIATE 5 MINUTE CALL BACK WINDOW
[9] or [9] [9]	SHUTDOWN MODULE or ALLOW SUBSEQUENT ALARM TO REPORT
[*] [4]	PLAY, TALK, LISTEN AND HIGH GAIN STATUS (i.e., "LISTEN MODE SELECTED")
[*] [5]	PLAY SPK/MIC ZONE STATUS (i.e., "ZONE 7 IS ACTIVE")
[*] [6]	PLAY MISSING 1281 STATUS (i.e., "EXPANSION MODULE 3 IS MISSING")

5.4.1 CONTROLLING INDIVIDUAL ZONES.

When the module activates, and is not connected to a DMP panel it will be in a low gain listen mode but no speaker-microphone zones will be active. If the 1280 is connected to a DMP panel then the last zone to trip on the DMP panel will be active on the 1280. To control which zones are on/off the operator uses Touch tone commands. A [4] activates the microphone command sequence. This is followed by a three digit zone number. Leading zeros (0's) are required for zone numbers less than 100. After pressing the [4] command, the operator will hear "SELECT ZONE". After the three digit zone is sent, the operator will hear a complete status message.

Example: To toggle speaker-microphone zone one (1), ON if it is OFF, or OFF if it is ON, the command **4 0 0 1** is sent. To toggle zone 16, the command **4 0 1 6** is sent. To toggle zone 194, the command **4 1 9 4** is sent. The procedure continues for the remaining zones in the system.

Microphones are controlled by the Touch Toned digits **2** & **3** and speakers controlled by the digit **1**. These commands control the microphone(s) or speaker(s) simultaneously in all active zones.

5.4.2 PAGING (ALL CALL).

All the speakers in all the zones can be returned ON at one time by pressing **4 ***. All zones can be returned OFF at one time by pressing **4 #**. The status of the speakers is heard by the operator with the message " **ALL SPEAKERSON** " & message " **ALL ZONES OFF** ". Once all the speakers are returned on the central station operator can make an announcement and then turn the speakers off. In addition to using the 1280/81's speakers for paging the "AUDIO OUT" output in conjunction with Option 14 can be used to support the paging audio to other audio systems such as intercoms. When Option 14 is selected for PAGE 2, the "AUDIO OUT" output will follow the **4 *** & **4 #** control of the 1280.

5.4.3 CONTROLLING ZONES IN GROUPS OF 8 (BANK SWITCHING)

It is possible to select zones in banks of eight by using a **6** in place of the **4**. When you press the **6** you will hear the message " **SELECT ZONE BANK** ". For Zones 1-8 enter a **0 0 1**. For groups of zones greater than eight enter the BANK# (Table 5) of the Model 1281 that contains the group of 8 zones you wish to activate.

Note: The BANK# is the address of the 1281+1. (Bank #1 is the 1280.)

Example: To turn on zones 145-152 refer to Table 5 and locate that zone grouping followed by the Model 1281 address associated with them. Now press **6** and the three digit address **0 1 9**. If you then press *** 6** the 1281 will playback the status of all eight zones as active.

Note: Be careful when entering Touch Toned digits where more than one digit is required to perform a function. The 1280 will "forget" that a digit has been pressed in four to six seconds so if you take longer than that to enter the additional digit(s) you will have to start over. Continuing to enter digits could cause unexpected actions to occur. In the example above if you pressed **6** then took longer than 6 seconds to enter the **0 1 9** you would first switch to the Talk mode by pressing the **1** and then cause a hangup by pressing the **9**.

TABLE 5 ZONE CONTROL GROUPS OF 8

ZONES	ADDRESS	ZONES	ADDRESS	ZONES	ADDRESS	ZONES	ADDRESS
001-008	001	081-088	011	161-168	021	241-248	031
009-016	002	089-096	012	169-176	022	249-256	032
017-024	003	097-104	013	177-184	023		
025-032	004	105-112	014	185-192	024		
033-040	005	113-120	015	193-200	025		
041-048	006	121-128	016	201-209	026		
049-056	007	129-136	017	210-216	027		
057-064	008	137-144	018	217-224	028		
065-072	009	145-152	019	225-232	029		
073-080	010	153-160	020	233-240	030		

TABLE 6 SPEAKER & MIC CONTROL TOUCH-TONE ® COMMAND SUMMARY.

COMMAND	FUNCTION
4	ACTIVATES ZONE CONTROL; AWAITING 3 DIGIT ZONE NUMBER R 0 0 1 - 2 5 6
4 #	TURN OFF ALL SPEAKERS & ZONES
4 *	TURN ON ALL SPEAKERS & ZONES
6	ACTIVATES ZONE BANK CONTROL; AWAITING 3 DIGIT ZONE BANK NUMBER 0 0 1 - 0 3 1

5.5 STATUS INTERROGATION.

5.5.1 AUDIOMODE, ZONE, & EXPANSION MODULE STATUS

The Model 1280 features status interrogation. This feature allows the central station the ability to interrogate the status of the current audiomode: Talk/Listen, which speaker/microphone zone(s) is/are active, and which if any Model 1281 zone expanders is/are missing.

The command ***4** initiates an audiomode status response: TALK, LISTEN, HIGH GAIN response from the 1280. For example, atypical response is “**LISTENMODE**”.

The command ***5** initiates a zone status response from the 1280. For example, atypical response is “**ZONE7IS ACTIVE**”.

The command ***6** initiates a missing zone expander status response from the 1280. For example, atypical response is “**EXPANSIONMODULES4,25AREMISSING**”. Note: If no expanders are missing then no message will be heard.

5.6 INTERNAL CONTROLS.

5.6.1 CENTRAL STATION DETECTION.

The Model 1280 features Eagle's exclusive central station detection. This feature allows the 1280 to detect a central station receiver dropping offline before an operator picks up on the two-way line. When detected (about 15 to 20 seconds post receiver hangup) the module will shut itself down and initiate the five-minute callback window.

This feature also is useful if the central station operator does not send the shut-down command. In this case the Model 1280 will shut down (after 15 to 20 seconds post operator hangup.) It will not activate the callback mode.

6.0 OPTIONAL CONNECTIONS

6.1 INTERNAL SIREN

The internal siren driver requires an input from the alarm panel (closure between ALARM and GND terminals.) The alarm tones will be sent to all speakers for as long as the input is active and the 1280 is off hook. When the 1280 is activated and goes on hook the internal siren tones are shut off.

6.2 EXTERNAL SIREN.

There is no external siren driver input for the Model 1280 or 1281. External sirens must be connected to separate speakers. If utilized, it is recommended to series the output to the driver (or power for a self-contained siren) through the Audio Active Relay, Normally Closed connection.

6.3 MODEL 1403 REMOTE CONTROL RELAY MODULE

An Eagle Model 1403 Remote Control Relay Module can be connected to the **1403** connector. The Model 1403 provides 4 relays which are controlled by the central station operator.

6.4 DMP INTERFACE OPERATION

Once the 1280 is activated, either by the DMP panel hangup (with key off from the CS receiver) or by calling the 1280, the activation of the 1280's audio zone is controlled either by the active zones on the DMP panel or by the operator. When a new alarm zone is activated on the DMP panel, a corresponding audio zone will activate on the 1280 and the previous active zone will turn off. To select which audio zone will be activated on the 1280 by a selected zone on the DMP panel, program the first four (4) character positions of the Zone Description for that zone on the DMP panel with an “A” followed by the 3 digit number corresponding to the audio zone you want activated on the 1280/1281(s).

Note: Multiple DMP zones can activate as single 1280 zone.

Example: To program Zone 1 on the DMP panel to activate audio Zone 001 on the 1280, start the zone description on Zone 1 with an “A” followed by “001” then continue with the remainder of the zone description.

Example: A001 FRONT DOOR. To program Zone 55 of the DMP panel to activate Zone 055 of the 1280, enter A055 followed by its description.

Note: The leading 0's are required for single & double digit zones.

Note: The leading 0's are required for single digit zones.

7.0 MODEL 1281 EXPANSION MODULE

7.1 MODEL 1281 TERMINAL STRIP CONNECTIONS

7.1.1 "OTHER" TERMINAL STRIP CONNECTIONS.

DC: Power input. 12VDC. Observe polarity.

EARTH: Earth ground connection. MUST BE CONNECTED TO ENSURE PROPER LIGHTENING AND ELECTRICAL NOISE PROTECTION. WARRANTY VOID IF NOT CONNECTED! Examples of good EARTH GROUND sources are a cold water pipe or the ground on an electrical outlet.

7.1.2 "DATA" TERMINAL STRIP CONNECTIONS.

If shielded cable is used, connect the shield at the EARTH GND terminal of the 1281 and to EARTH GND on the 1280 terminal strip.

GND: Connect to the GND terminal (next to EARTH) on all the 1281(s).

DATA: Connect to the "DATA" terminal on the 1281(s).

CLOCK: Connect to the "CLOCK" terminal on the 1281(s).

ACK: Connect to the "ACK" terminal on the 1281(s).

7.1.3 "AUDIO" TERMINAL STRIP CONNECTIONS.

If shielded cable is used, connect the shield at the EARTH GND terminal of the 1281 and to EARTH GND on the 1280 terminal strip.

GND: Connect to GND on all 1281's "AUDIO" terminal strip.

SPK'S: Connect to "SPK'S" on all 1281's. This terminal provides the audio to the speaker drivers on the 1281(s).

SIREN: Connect to "SIREN" on all 1281's. This terminal provides the alarm tone to the speaker drivers on the 1281(s).

MIC'S: Connect to "MIC'S" on all 1281's. This terminal feeds the microphone audio from the 1281(s) back to the 1280.

7.1.4 MIC & SPK TERMINAL STRIP CONNECTIONS.

MICX, SPKX: Microphone and speaker zones 9, 48, 256, etc. Each microphone and speaker requires two wires each. The MIC & SPK inputs are not polarity sensitive. The "X" is a zone number, and each MIC & SPK are selected as a ZONE. For example, MIC1 or SPK1 are selected as Zone1 etc. Run two or four conductor cable (two if using just a mic and no speaker or vice versa or four if using both) to each 2172 speaker/mic location. For runs of 100' or less a 2 or 4 conductor 22 awg. shielded/twisted pair cable is recommended. For long runs up to 1000' use 18 awg shielded/twisted pair cable.

7.2 CIRCUIT BOARD DESCRIPTION.

7.2.1 STATUS LED

The STATUS LED on the 1281 is used to indicate the status of the communications between the Model 1280 and the Model 1281 as indicated in Table 7.

TABLE 7 LED STATUS INDICATOR.

# OF FLASHES EVERY FIVE SECONDS	STATUS OF COMMUNICATIONS
1 (ONE)	COMMUNICATIONS BETWEEN THE 1280 & THIS 1281 ARE OPTIMAL.
2 (TWO)	THIS 1281 IS SEEING DATA BUT NOT IT'S OWN ADDRESS.
4 (FOUR)	THIS 1281 IS NOT SEEING ANY DATA.

7.2.2 EIGHT (8) ZONE(S) WITH ACTIVE MIC LED'S

These 8 LED's indicate which zones have an active (open) microphone.

Note: These LED's indicate MIC status only when the 1280 is in the Talk Mode these LED's turn OFF.

7.3 ADJUSTMENTS.

MICS & SPEAKER (X) Potentiometers – Used to adjust the gain of the each microphone input & volume of each speaker output (where “ X” is the zone number); Turning the potentiometer clockwise increases gain/volume; counter clockwise decreases gain/volume.

7.4 1281 DIPSWITCH (1281 ADDRESS PROGRAMMING).

Supervision of the multiple Model 1281's in the system is accomplished by selecting a unique address for each 1281 using the 6 position DIP switch located on the 1281 circuit board and by programming the total number of 1281s in Option 13 of the Model 1280's option program. Once every 15 seconds all the 1281s are polled. If one or more do not respond they are re-polled and if they still do not respond the “MISSING EXPANDER” LED lights and the MISSING EXPANDER relay will activate. The LED & relay will deactivate automatically if the missing 1281(s) are restored to the system. It is important that the 1281's be programmed sequentially not only because of the supervision but also because the address of the 1281 also determines which zones are controlled by that particular 1281. The Table below shows how the DIP switch should be set for each address and which zones that address will control.

Note: The supervision of the 1281's can be disabled by programming Option 13 with however, the programming of the DIP switches on the 1281 is still required.

MODEL1281DIPSWITCHTABLE

Address	ZOFFes	Switch1	Switch2	Switch3	Switch4	Switch5	Switch6
001	009-016	OFF	ON	ON	ON	ON	ON
002	017-024	ON	OFF	ON	ON	ON	ON
003	025-032	OFF	OFF	ON	ON	ON	ON
004	033-040	ON	ON	OFF	ON	ON	ON
005	041-048	OFF	ON	OFF	ON	ON	ON
006	049-056	ON	OFF	OFF	ON	ON	ON
007	057-064	OFF	OFF	OFF	ON	ON	ON
008	065-072	ON	ON	ON	OFF	ON	ON
009	073-080	OFF	ON	ON	OFF	ON	ON
010	081-088	ON	OFF	ON	OFF	ON	ON
011	089-096	OFF	OFF	ON	OFF	ON	ON
012	097-104	ON	ON	OFF	OFF	ON	ON
013	105-112	OFF	ON	OFF	OFF	ON	ON
014	113-120	ON	OFF	OFF	OFF	ON	ON
015	121-128	OFF	OFF	OFF	OFF	ON	ON
016	129-136	ON	ON	ON	ON	OFF	ON
017	137-144	OFF	ON	ON	ON	OFF	ON
018	145-152	ON	OFF	ON	ON	OFF	ON
019	153-160	OFF	OFF	ON	ON	OFF	ON
020	161-168	ON	ON	OFF	ON	OFF	ON
021	169-176	OFF	ON	OFF	ON	OFF	ON
022	177-184	ON	OFF	OFF	ON	OFF	ON
023	185-192	OFF	OFF	OFF	ON	OFF	ON
024	193-200	ON	ON	ON	OFF	OFF	ON
025	201-209	OFF	ON	ON	OFF	OFF	ON
026	210-216	ON	OFF	ON	OFF	OFF	ON
027	217-224	OFF	OFF	ON	OFF	OFF	ON
028	225-232	ON	ON	OFF	OFF	OFF	ON
029	233-240	OFF	ON	OFF	OFF	OFF	ON
030	241-248	ON	OFF	OFF	OFF	OFF	ON
031	249-256	OFF	OFF	OFF	OFF	OFF	ON

8.0 NOTES & RETURNS.

TECHNICAL SUPPORT HOTLINE: 800.447.E 3 A2 G4 L5 E

When using multiple speaker/mics at the subscriber end, be aware that loud background noise picked up by one speaker/mic will "drown out" the other speaker/mic.

As with all electronic devices, electrostatic discharge can damage the components. Handle the circuit board with care!

Features and specifications subject to change without notification.

Use of this equipment may be in violation of local laws. Please verify and obey all local laws. Eagle Security Products, Inc. does not assume any liability for the illegal use of this equipment.

Trademarks and Registered Trademarks are the property of their respective owners.

RETURNS:

IMPORTANT: COPY, COMPLETE AND RETURN THIS FORM WITH YOUR RETURNS .

NOTE: YOU MUST OBTAIN A RMA NUMBER FROM TECH SUPPORT FROM THE FIELD BEFORE RETURNING PRODUCT .

SECTION 1 (TO BE COMPLETED BY DEALER) DATE/...../.....

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

9.0 FCC REQUIREMENTS

1. The Federal Communications Commission (FCC) has established Rules which permit this device to be directly connected to the telephone network. Standardized jacks are used for these connections. This equipment should not be used on party lines or coin lines.
2. If this device is malfunctioning, it may also be causing harm to the telephone network; this device should be disconnected until the source of the problem can be determined and until repair has been made. If this is not done, the telephone company may temporarily disconnect service.
3. The telephone company may make changes in its technical operations and procedures; if such changes affect the compatibility or use of this device, the telephone company is required to give adequate notice of the changes. You will be advised of your right to file a complaint with the FCC.
4. If the telephone company requests information on what equipment is connected to their lines, inform them of:
 - a. The telephone number this unit is connected to
 - b. The ring equivalence number
 - c. The USOC jack required
 - d. The FCC Registration numberItems 'b' and 'd' are indicated on the label.

The ring equivalence (REN) is used to determine how many devices can be connected to your telephone line. In most areas, the sum of the RENs of all devices on any one line should not exceed five (5.0). If too many devices are attached, they may not ring properly.
5. In the event of equipment malfunction, all repairs should be performed by your Company or an authorized agent. It is the responsibility of users requiring service to report the need for service to our Company or to one of our authorized agents. Service can be obtained at:

Eagle Security Products, Inc.
11650 Genesee Street Suite #2
Alden, NY 14004-9630
SALES: 800.334.7188 or 716.937.0095
FAX: 716.937.3127
www.eagle-security.com
Tech support email: tech@eagle-security.com
Sales email: sales@eagle-security.com

TECHNICAL SUPPORT HOTLINE: 800.447.E 3A2G4L5E

or at your local installation company.

EAGLE SECURITY PRODUCTS False Alarm Terminator TM Advantage Plus
Complies with Part 68, FCC Rules
FCC Registration #: 1SYUSA-18688-KX-N
Ring Equivalence: 0.0B

LIMITED WARRANTY

Eagle Security Products, Inc. warrants that the products of its manufacture shall be free from defects in materials or workmanship to one year from the date of invoice if such goods have been properly installed, are subject to normal proper use, and have not been modified in any manner whatsoever. Upon return of the defective product to the nearest Eagle Security Products dealer, Eagle Security Products will, at its sole discretion, either repair or replace, at no cost to the customer, such goods as may be of defective material or workmanship. Customers outside the United States are to return products to their distributor for repair.

In addition, any out of the box failure will be repaired at no charge providing the unit has not been altered physically. Alterations include, but not limited to, soldering, the addition of tape/foam tape or any form of physical damage.

EAGLE SECURITY PRODUCTS, INC. SHALL NOT UNDER ANY CIRCUMSTANCES BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING FROM LOSS OF PROPERTY OR OTHER DAMAGE OR LOSSES OWING TO THE FAILURE OF EAGLE SECURITY PRODUCTS' PRODUCTS BEYOND THE COST OF REPAIR OR REPLACEMENT OF ANY DEFECTIVE PRODUCTS.

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