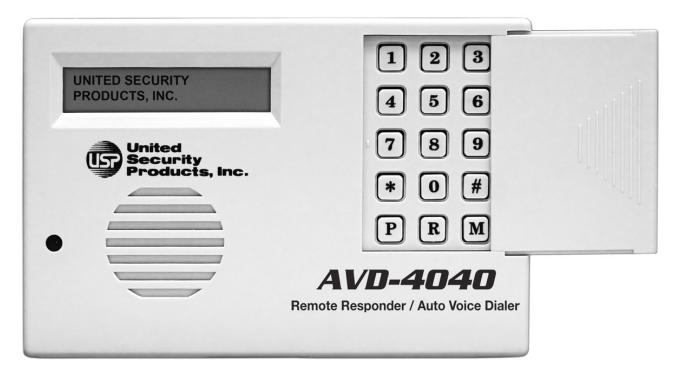
# **MODEL AVD-4040**

# Automatic Voice Dialer

w/Remote Responder and Remote Arm/Disarm Controlled by Any Cell or Landline Phone

Not just the next generation... it's the next millennium!



Versatile \* Full-featured \* Easy to Program

2-way Listen in Verification Operates with all alarm systems Ideal stand-alone dialer Provides reliable emergency notification 24 hours a day



PLEASE READ THIS MANUAL BEFORE PROGRAMMING AND USING THE UNIT. IMPORTANT: SAVE THESE INSTRUCTIONS

# **MODEL AVD-4040**

# Owner's Manual and Operating Instructions The Automatic Voice Dialer System *For The Next Millennium*

# Congratulations!

Thank you for purchasing United Security Product's Model AVD-4040 - the "smartest", most comprehensive automatic voice dialer available. Representing an exciting new level of achievement, the AVD-4040 combines technologically advanced features, ease of programming, and reliable operation in a compact unobtrusive dialer that is completely compatible with any security alarm system. Installation and hookup is quick and easy whether installed with normally open, or normally closed dry contact or voltage activation sensors. The unit can also function as a stand-alone device by simple connection to an ordinary telephone jack. The keypad cover glides on and off for added security.

# **How It Works**

The AVD-4040 features a "smart' Remote Responder System (RRS) that is always ready to use in response to the monitoring, dialing, and voice message features of this extraordinary product.

If an immediate response is required, the AVD-4040 may be used to Remotely Verify the status of assigned circuits (open or closed) and also Remotely Control those circuits (close or open) using the keypad on any phone. Refer to Remote Responder System, pages 13, 14, and 15, for complete operational details including Remote Arming or Disarming of monitored channels.

The AVD-4040 is extensively programmable, offering personalized customization to fulfill virtually any residential or business requirement. Plain-English prompts walk the user through the process in a timely manner.

Programming options abound, allowing the user to:

- Store up to 8 phone numbers.
- Choose 1- 9 calling efforts for the numbers dialed.
- Select 1-3 message repeats.
- Record a variable combination (maximum: 7) of instructional outgoing messages (total elapsed time: 60 seconds).

Program up to 4 separate input channels with individually enable/disable, entry/exit delay and activation options (Normally Open (N.O.), Normally Closed (N.C.) (dry contact or voltage activation) including momentary and continuous activation for each).

Further individualize each channel by selecting the delay times, landline or cell phone numbers to be dialed, and the specific outgoing messages to be played.

Please Familiarize Yourself With All Instructions Before Installation/Operation. This guide describes how to program and operate the dialer. We strongly recommend that you read the all instructional material before attempting to use the unit.

To enhance ease of programming and operation, this guide includes:

- A Programming Sample/Quick Setup review on page 16 with a corresponding Program Planner.
- A Blank Program Planner on page 17. One copy of this Planner should be kept in a safe place by the end user. A separate copy should also be retained by the installer.

We are happy to provide a full measure of security reassurance and peace of mind with the Model AVD-4040. For information about other innovative United Security Products equipment, call (800) 227-1592.

For Technical Service and Support: Call (858) 413-0149 \* Fax (858) 413-0124 E-mail: usp@unitedsecurity.com Monday – Friday \* 6:30 AM – 4:00 PM PST

# THIS PACKAGE CONTAINS: 1 ea. MODEL AVD-4040 1 ea. AC-2P AC ADAPTER 1 ea. PHONE CABLE 1 ea. INSTRUCTION MANUAL 4 ea. 1K RESISTORS

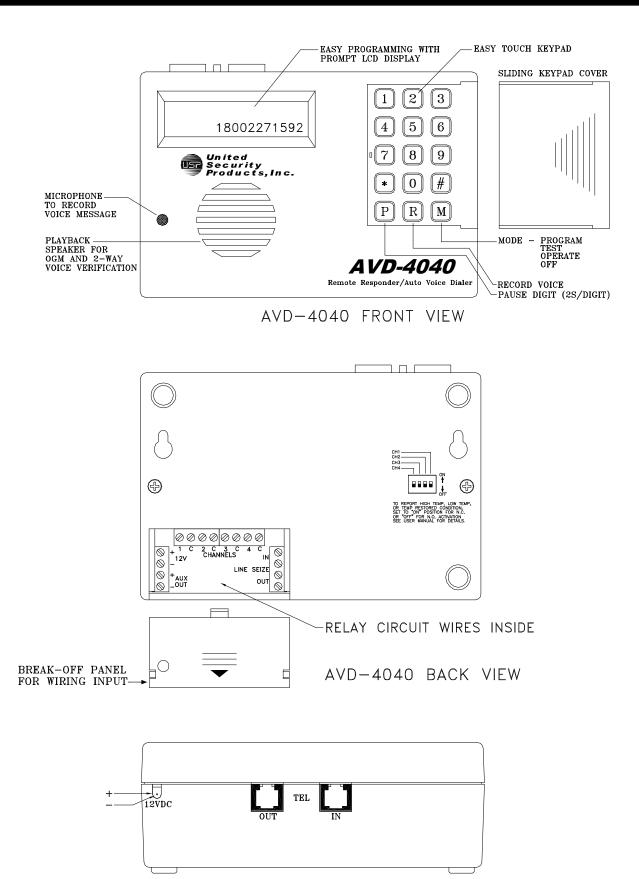
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# IMPORTANT

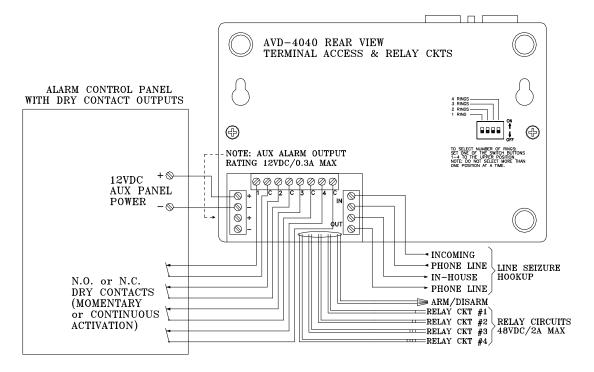
AVD-4040 PERFORMS BEST WHEN CONNECTED TO AN ANALOG "LAND LINE." DIGITAL CONVERSION OF ANALOG VOICE IN TELEPHONE LINES MAY RESULT IN A SLIGHT DELAY OF SIGNAL RECEIVED. IF AVD-4040 IS CONNECTED TO A DIGITAL PHONE LINE, IT MAY BE NECESSARY TO REPEAT SAYING "HELLO" IN ORDER TO RELEASE THE PRE-RECORDED MESSAGE.

# **AVD-4040 PANEL DISPLAYS**

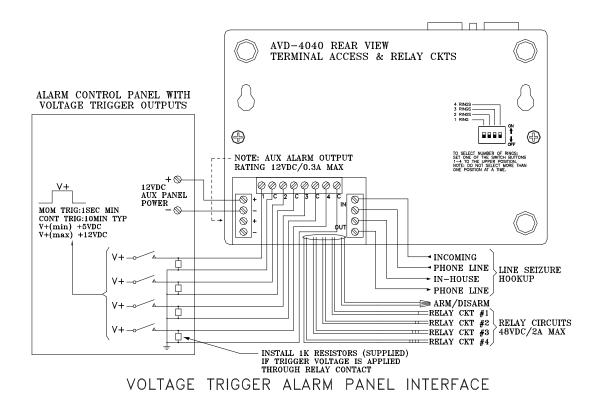


AVD-4040 TOP VIEW

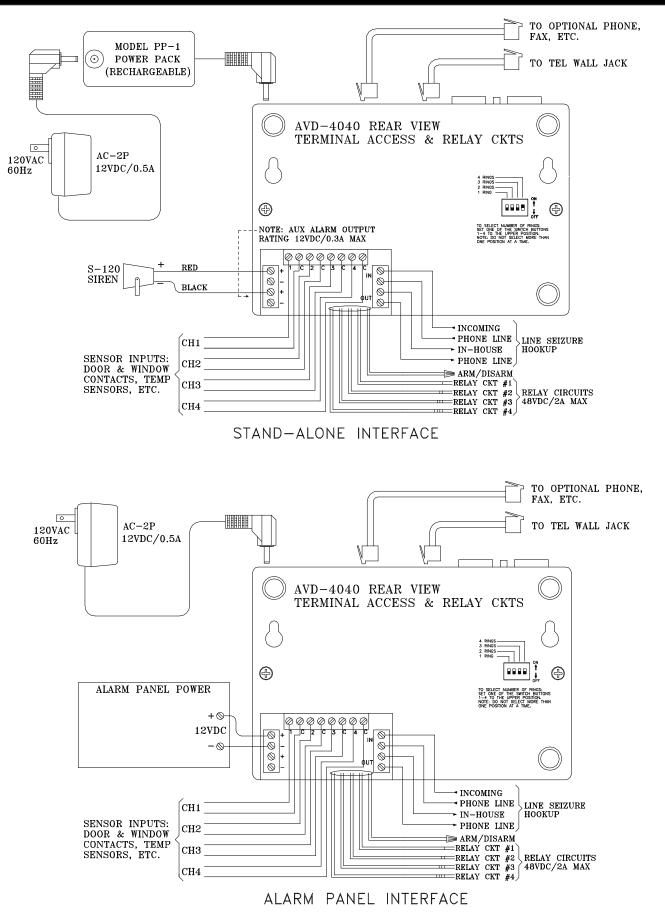
# **AVD-4040 INSTALLATION HOOKUPS**



DRY CONTACT ALARM PANEL INTERFACE



# **AVD-4040 INSTALLATION HOOKUPS**



# Overview

Please study this section thoroughly before beginning to program the dialer, referring to the Sample Program Planner on page 16. Then, select from among the options for each feature, listing each choice in pencil on the blank Program Planner on page 17. Once the dialer is correctly programmed, list each choice in ink. One copy of the Planner should be kept by the installer; one copy should remain with the end user.

# A Look At The Keypad



# **CALLOUT FOR NUMERALS:**

Press these keys to enter telephone numbers and other programming information as specified in this manual. A maximum of 50 digits can be input in each landline phone, cell phone, or pager location.

# • CALLOUT FOR P:

Press this key to program in a pause. Each "P" provides a 2-second pause.

# • CALLOUT FOR R:

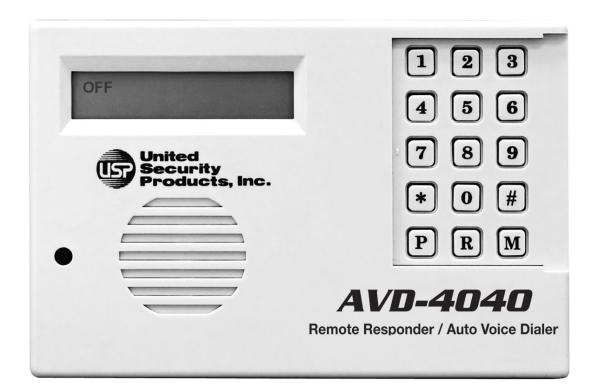
Press this key to record the combination of identification and directional outgoing messages (OGMs). The total elapsed OGM time cannot exceed 60 seconds.

# • CALLOUT FOR M:

Press this key to change the Mode of the dialer, in sequence:

PROGRAM TEST OPERATE OFF.

Once the unit has been programmed, removing power or placing the dialer in the OFF mode will not affect the programming.



# First Time Installation to Initialize Dialer Follow Steps 1 & 2.

STEP 1 A

Apply power to the unit. The LCD will read: NOT PROGRAMMED PRESS KEYPAD #1 STEP 2 Press 1.

The LCD will change to read: UNITED SECURITY PRODUCTS, INC. *then:* PROGRAM: NUMBERS *then:* SELECT: 1-8 0(DONE)

# Programming Landline Phone, Cell Phone, or Pager Numbers

You are now ready to begin programming the dialer. All programming can be input before connecting the dialer to a telephone line. Check the unit's LCD as you program numbers in the dialer to ensure accuracy. Please complete all programming instructions before attempting to operate the unit.

Before programming your dialer to call the police, fire department or 9-1-1 directly, you must check with these agencies for their approval.

A maximum of 50 digits (including pauses) can be programmed in at each location.

#### \*PROGRAM: NUMBERS SELECT: 1-8 1(YES) 2(NO) 0(DONE)

\*This prompt will appear after a number has been programmed and this section has been exited.

**STEP 1** Press location number 1-8 to program the first number. This can be any location 1-8. You do not have to program locations in sequence. For example, you can program numbers in locations 3 and 5. When you are done programming all the desired phone and/or pager numbers, press "O" to exit this section.

The LCD will read: **PAGER** 

## 1(YES) 2(NO)

**STEP 2** Press "1" if you wish to program in a numeric pager number (step 3A). Press "2" if you wish to program in a telephone number (step 3B), cellular phone number (step 3B), or a voice pager (step 3C).

## **STEP 3A- NUMERIC PAGERS**

**NOTE:** WHEN PROGRAMMING NUMERIC PAGERS, YOU MUST PROGRAM IN ONE OR MORE PAUSES. EACH "P" PROVIDES A 2-SECOND PAUSE. BEFORE PROGRAMMING IN A PAGER, CALL THE NUMBER TO DETERMINE THE NUMBER OF 2-SECOND PAUSES TO BE PROGRAMMED IN.

If you pressed "1" to program in a numeric pager...

Press the digits of the pager to be called. The numbers will appear on the LCD, as will the following key designations.

Press "P" one or more times in accordance with the number of seconds needed to accommodate the pager.

(**Remember, each "P" provides a 2-second pause**). Press the digits of the numeric pager code.

**NOTE:** SOME PAGER SERVICES REQUIRE A "#" SIGN FOR SEPARATION OF THE NUMERIC CODE OR AT THE END OF THE NUMERIC CODE FOR PROPER TRANSMISSION.

Press "\*" to store the sequence.

*Example:* To store numeric pager number 555-1212, a 4-second Pause and code 3456:

Press



# **STEP 3B – TELEPHONE NUMBERS**

If you pressed "2" and wish to program in a telephone number... Press the digits of the number to be dialed. For long-distance numbers, first press "1" followed by the area code and then the number. The number will appear on the LCD.

Press "\*" to store the sequence.

*Example:* Store telephone number 1-800-555-1212:

Press:

18005551212\*

**REMEMBER/NOTE:** Before programming your dialer to call the police, fire department 0r 9-1-1 directly, you must check with these agencies for their approval.

# **STEP 3C – VOICE PAGERS**

If you pressed "2" and wish to program in a voice pager...

Press the digits of the pager to be called.

Press "P" one or more times in accordance with the number of seconds needed to accommodate the pager.

(Remember each "P" provides a 2-second pause).

Press "\*" to store the sequence. The number will appear on the LCD.

Example: To store voice pager 555-1212 and a 4-second pause: Press:



**STEP 4** Repeat steps 1-3 for each number to be programmed in each location. Select any of 8 location numbers in Step 1 (SELECT: 1-8) for each number to be programmed.

**STEP 5** When you are done programming all desired telephone and/or pager numbers, press "0" to exit this section.

NOTE: IF YOU ENTER THE WRONG CHOICE, PRESS "M" KEY REPEATEDLY AND RETURN TO THE "PROGRAM MODE", THEN SELECT THE SECTION TO CHANGE ("1" ACCEPT SECTION, "2" FOR NEXT SECTION), THEN ENTER CORRECT INFORMATION.

# **Programming Auxiliary Information**

The dialer is preset at the factory to typical telephone line (T-LINE), PBX, Dialing Attempts and Message Repeat options. If you choose to accept the following default prompts, simply press "2" to scroll to the next section. If your landline phone system requires dialing a digit to get an outside line or dial tone, similar to PBX, then turn PBX on and enter digit to program.

## PRESETS

T-LINE	TONE
PBX	OFF
ATTEMPTS	2
MESSAGE	2

To change the presets, follow these steps.

#### **T-LINE**

The LCD will display: PROGRAM: T-LINE 1(YES) 2(NO) Press "1" to program T-LINE. Press "2" to scroll to the next section.

The LCD will display: **PROGRAM: T-LINE 1(TONE) 2(PULSE)** Press "1" for TONE. Press "2" for PULSE.

PBX

The LCD will display: **PROGRAM: PBX** 1(ON) 2(OFF)

Step 1: Press "1" for ON. Press "2" for OFF. Step 2: If "1" is entered, the LCD will display: PROGRAM: PBX ENTER PBX NUMBER

Enter PBX number (1 digit).

## ATTEMPTS

ATTEMPTS refers to the number of times the dialer will call each designated number. Both successful and unsuccessful (busy or no answer) call are considered attempts.

## The LCD will display: **PROGRAM: ATTEMPTS** ENTER 1-9

**Step 1:** Press the digit (1-9) corresponding to the number of times you wish the dialer to call each number.

## MESSAGE

MESSAGE refers to the number of times each message will be delivered to each designated number.

#### The LCD will display: **PROGRAM: MESSAGE REPEAT ENTER 1-3**

**Step 1:** Press the digits (1-3) corresponding to the number of times you wish the message(s) to be delivered.

After selecting the number of message repeats, the dialer will automatically exit this section.

# **Structuring Your Outgoing Messages**

The AVD-4040 dialer was designed with optimum versatility and functionality in mind. Nowhere is this more apparent than in the matrix of outgoing messages (OGMs). The user's ability to "mix and match" OGMs allows complete system customization and provides ultimate efficiency.

Total OGM time is 60 seconds.

A beginning identification (ID) message of up to 15 seconds can be programmed in (options #4, #6, and #8). Your ID message should clearly state your name, address and other pertinent emergency information.

Typically, each OGM will have a specific purpose. For instance, OGM 1 can alert the person notified to contact the fire department while OGM 2 can alert the person to contact the police department. Typically the dialer is programmed to notify family, friends or another responsible party. Before programming your dialer to call the police, fire department or 9-1-1 directly, you must check with these agencies for their approval.

- **OPTION #1** No OGM. Select this option if you do not wish to record any outgoing messages.
- **OPTION #2** 1 OGM. Select this option if you wish to record one OGM, which may be as long as 51 seconds.
- **OPTION #3** 2 OGMs. Select this option if you wish to record two OGMs, each of which may be as long as 25.5 seconds.
- **OPTION #4** ID plus 2 OGMs. Select this option if you wish to record one ID of up to 15 seconds in length, and two OGMs, each of which may be as long as 18 seconds.\*
- **OPTION #5** 3 OGMs. Select this option if you wish to record three OGMs, each of which may be as long as 17 seconds.
- **OPTION #6** ID plus 3 OGMs. Select this option if you wish to record one ID of up to 15 seconds in length, and three OGMs, each of which may be as long as 12 seconds.\*
- **OPTION #7** 4 OGMs. Select this option if you wish to record four OGMs, each of which may be as long as 12.75 seconds.
- **OPTION #8** ID plus 4 OGMs. Select this option if you wish to record one ID of up 15 seconds in length, and four OGMs, each of which may be as long as 9 seconds.\*

\*If your ID message is less than 15 seconds in length, the remaining time will be evenly divided among the OGMs.

Example: OPTION #4: ID plus 2 OGMs.

If the ID is 10 seconds, then each OGM can be (51 minus 10 equals 41 divided by 2 equals) 20.5 seconds in length.

# Programming And Recording Your Outgoing Messages

Follow these steps to program and record your outgoing messages. Skip this portion if you have programmed in only numeric pagers, which rely on coded DTMF messages. As with all AVD-4040 programming, the unit need not be connected to a phone line when information is programmed in. Remember that "OPT" on the LCD stands for option; "OGM" stands for outgoing message.

NOTE: IF YOU ENTER THE WRONG CHOICE, PRESS "M" KEY REPEATEDLY AND RETURN TO THE "PROGRAM MODE", THEN SELECT THE SECTION TO CHANGE ("1" ACCEPT SECTION, "2" FOR NEXT SECTION). THEN ENTER CORRECT INFORMATION.

**STEP 1** Decide which of the eight options you prefer.

**STEP 2** Before programming in this option, write down all your messages. Time them carefully, changing them if necessary to fit the alotted time frame. Practice saying them, clearly enunciating each message for maximum clarity in case of an emergency. Keep a final recording script.

STEP 3 Program your option.

- A) The LCD will read: PROGRAM: OGMS 1(YES) 2(NO)
- **B**) Press "1" to program your OGMs. Press "2" to scroll to the next section.
- C) Press "1" to select the option (#1- #8) displayed or press "2" to scroll to the desired option.

**STEP 4** After selecting your option as explained above, record your message.

A) The word RECORD will appear in the upper left corner of the LCD, above the instruction: PRESS R. The option selected will appear in the upper right corner. For instance, if you selected option #2, the LCD will read:

# RECORD OGM1 PRESS R

**B**) Speak 6-12 inches away from the microphone. Referring to your script and speaking in a normal voice, press and hold R (the word RECORDING will be displayed), releasing the key after you have completed enunciating your messages. The word DONE will appear on the LCD when the maximum allotted time has been reached.

C) The LCD will read: **PLAY OGM(S)** 

1(YES) 2(NO)

Press "1" to play back your recording **D**) The LCD will read: **ACCEPT** 

## read: AUCEPT

## 1(YES) 2(NO)

Press "1" to accept the recorded OGM(s). Press "2" if you wish to re-record the messages, beginning with Step 4.

## **Changing The OGMs**

After your system is up and operating, you may change one or more of the recorded OGMs and/or choose a completely different option. To do so, simply scroll to the programming section on your display: **PROGRAM: OGMS** 

## 1(YES) 2(NO)

Select the option, then begin again from Step 3 above to record your new message(s).

# **Programming The Channels**

The AVD-4040 is designed to be adaptable to a complete range of personalized applications. Each of the four input channels can be programmed individually for full system customization. In addition to setting enable/disable options, entry/exit delays and type of activation (N.O., N.C., & momentary or continuous), each user can specify which emergency messages will be delivered and which numbers will be dialed. The first channel activated will be the priority channel. Numbers programmed to that channel will be completed before the dialer moves on to the next channel(s).

Although comprehensive in scope, the system is easy to program. Just follow these simple steps.

NOTE: IF YOU ENTER THE WRONG CHOICE, PRESS "M" KEY REPEATEDLY AND RETURN TO THE "PROGRAM MODE", THEN SELECT THE SECTION TO CHANGE ("1" ACCEPT SECTION, "2" FOR NEXT SECTION), THEN ENTER CORRECT

STEP 1 The LCD will read: PROGRAM: CHANNELS 1(YES) 2(NO)

Press "1" to begin programming the channels.

STEP 2 The LCD will read: SELECT: 1-4

0(DONE)

Enter the channel you wish to program (1-4).

## Enable/Disable

**STEP 3** The LCD will read: CH X: ENABLE

1(YES) 2(NO)

("CH X" being the channel selected)

Press "1" to enable the channel. Press "2" to disable the channel.

## **Exit/Entry Delays**

Capable of programming up to a maximum of 3 minutes and 20 seconds each.

#### STEP 4 The LCD will read: CH X: EXIT DELAY 1(YES) 2(NO)

Proceed with A) if you wish to program an exit delay. Proceed with B) if you do not.

A) To program exit delay, press "1". The LCD will read: ENTER 0-199 THEN

PRESS \*

Enter the digits corresponding to the number of seconds you wish to install. (For example, press "120" then press "\*", if you wish to install a 120-second exit delay).

**B**) If you do not wish to program an exit delay, press "2".

# STEP 5 The LCD will read: CH X: ENTRY DELAY 1(YES) 2(NO)

Proceed with A) if you wish to program an entry delay. Proceed with B) if you do not.

A) To program an entry delay, press "1". The LCD will read: ENTER 0-199 THEN PRESS \*

Press "1" to program a delay. Then enter the digits corresponding to the number of seconds you wish to install. (For example, press "90" then press "\*", if you wish to install a 90-second delay).

B) If you do not wish to program an entry delay, press "2".

# Normally Open/Normally Closed

**STEP 6** The LCD will read:

# CH X: N.O./N.C.

1(N.O.) 2(N.C.)

- A) Press "1" to select a normally open channel.
- **B**) Press "2" to select a normally closed channel.

# Momentary/Continuous Activation

**STEP 7** The LCD will read:

#### CH X: MOM/CONT 1(MOM) 2(CONT)

- A) Press "1" to select a momentary trigger.
- **B**) Press "2" to select continuous activation.

## Numbers Dialed/Outgoing Messages

Following these steps allows you to choose which OGM(s) will be delivered and which numbers will be dialed for each channel. NOTE: Dialer LCD will only show programmed numbers and OGM options.

**STEP 8** The LCD will read:

## CH X: DIAL #X

#### 1(YES) 2(NO)

("Dial #X" being the number in phone/pager location 1-8)

A) Press "1" to dial phone/pager #X to be dialed when the selected channel is activated. Press "2" if you do not wish this number to be dialed. **B)** Continue the above procedure for each of the up to eight phone/pager numbers programmed in.

## **STEP 9** The LCD will read:

# CH X: OGM X

# 1(YES) 2(NO)

- ("OGM X" being the OGM recorded in OGM options #2 #8)
- A) Press "1" to deliver OGM *X* when the channel is activated. Press "2" if you do not wish this OGM to be delivered.
- **B)** Continue the above procedure for each Channel/OGM. If you have programmed in and recorded an ID message as one of your OGM options, this ID will be delivered to all channels. It will not appear in the Channel display.

**NOTE:** ID AND OGM(S) WILL ONLY BE DELIVERED TO LANDLINE NUMBERS, CELLULAR NUMBERS, AND PAGERS.

# **Completing The Programming**

Once you have programmed in all dialing and OGM options for each channel, the LCD will read:

## ACCEPT

#### 1(YES) 2(NO)

**STEP 10** Press "1" to accept the Channel programming. Press "2" to re-program or to revert to previously programmed setting.

You are now ready to review your programming and test the system.

#### PRESS "M" TO EXIT PROGRAMMING MODE.

# **TESTING YOUR SYSTEM**

## Test your system before an emergency occurs.

Do not neglect to review programmed information and verify all elements of your system thoroughly before relying on the dialer to deliver the necessary information to the desired parties accurately and completely.

We strongly recommend testing the system in test mode before connecting to a telephone line. The test mode tests the stored information, not the full functionality of the dialer. To test the full functionality of the dialer, the unit must be tested in the operate mode. In the test mode, the dialer will not make more than one attempt per number dialed or play any OGM more than once.

#### NOTE: IF YOU ENTER THE WRONG CHOICE, PRESS "M" KEY REPEATEDLY AND RETURN TO THE "PROGRAM MODE", THEN SELECT THE SECTION TO CHANGE ("1" ACCEPT SECTION, "2" FOR NEXT SECTION), THEN ENTER CORRECT INFORMATION.

STEP 1 Press the "M" Mode key until the LCD reads: TEST: T-LINE 1(YES) 2(NO)

**STEP 2** Press "1" to display the T-Line configuration. The data will scroll through all selections. Press "2" to scroll to the next section.

STEP 3 The LCD will read:

#### TEST: CHANNEL(S) 1(YES) 2(NO)

Press "1" to test channels. Press "2" to scroll to the next section. **STEP 4** The LCD will read:

#### SELECT: 1-4 5(ALL) 0(DONE)

## Select the channel you wish to test (1-4). Press "5" to test "all" Channels. Once a channel is selected (or "all") the programmed channel information will be displayed on the LCD. Verify data accuracy as the LCD scrolls through by comparing the information displayed with that specified on your Program Planner. Listen to your recorded message(s) to ensure that the correct OGM (if programmed) is delivered. Press "0" to exit testing.

**STEP 5** Now connect your dialer to the telephone line you will be using and test the system again, to determine if it functions correctly in an actual emergency situation.

Make sure you notify the receiving party of your intent to call them, and tell them it is just a test.

**STEP 6** To test the operation of your entire system, set Mode to OPERATE and proceed as explained in the next section: Operating Your System.

Test your system on a regular basis, at least once a week.

# **OPERATING YOUR SYSTEM**

You are now ready to begin operating your system, relying on the AVD-4040 to work in conjunction with your alarm system to provide 24-hour security reassurance and peace of mind.

When in the operating mode, the system will monitor all the enabled channels, initiating dialing when a valid alarm condition occurs. Upon activation the dialer will begin calling each phone/pager number selected, in sequence, for the pre-selected number of attempts. During each successful attempt, the voice message will be delivered 1, 2, or 3 times, in accordance with the option selected (**numeric messages will only be delivered one time**). In unsuccessful attempts, the dialer will move on to the next phone/pager number after receiving 8 busy or 8 rings without an answer. The dialer will not allow voice messages to be delivered to programmed numeric pager locations.

If you send a message to a phone attached to an answering machine, it will consider this a successful attempt. Make sure you designate the maximum number of message repeats to be sure that a complete message will be left on the answering machine, because part or all of your emergency message may be "lost" while the answering machine delivers its greeting message.

Placing your system in OPERATE can also be used as a final test of the full functionality of each channel's exit/entry delay, activation, momentary/continuous trigger, phone numbers and OGM. Although serving as a test, this mode reflects actual operation; therefore the OGM(s) will not be heard through your dialer's speaker but only by each party called.

To begin operating your system, simply press the "M" Mode key until the word OPERATE appears on the LCD. To disarm the dialer, switch the mode to OFF by pressing the same key. All programming information will be re-tained

# **System Notations**

Here are a few explanations to help you better understand how your AVD-4040 dialer operates. For specific information on the AVD-4040 unit alone, call United Security Products, Inc.'s Customer Service Department during normal business hours at (858) 413-0149.

# **Channel Activation**

Each of the dialer's four channels can be activated by any of the following: a normally open dry contact, normally closed dry contact or positive 5-28VDC voltage activation.

Under a momentary activation, a single violation of a channel will cause the dialer to initiate delivering all pre-selected OGMs to all programmed numbers associated with that channel. Under continuous activation, the dialer will initiate the process, terminating it if/when the activated channel is restored to a non-alarm state. Once an alarm has occurred and all attempts satisfied, the dialer will continue to monitor any remaining enabled channel(s). Once the activated channel has been restored to a non-alarm state, it will then be rearmed and ready for the next alarm.

# **Exit/Entry Delays**

If a channel is activated during a pre-selected exit delay, the alarm condition will be ignored until the delay has expired. If an alarm occurs, the entry delay will cause the dialer to wait before starting the dialing process. To de-activate the dialer during the entry wait period, simply press "M" to return to the OFF Mode. Both exit and entry delay times can be pre-selected to range from 1-199 seconds.

# **Additional features**

The dialer offers three innovative features that enhance the utility of the entire system.

# Listen-In

While receiving an OGM on a touch-tone phone, the called party can press "1" to listen in to the activity at the other end of the line for one minute. Pressing "1" again restarts the minute increment period and can be repeated indefinitely. When "1" is pressed the OGM will stop playing and the listen in period will start.

# **Two-Way**

After the called party is listening-in, that party can press "2" to begin a two-way conversation lasting for one minute. This procedure also can be repeated indefinitely by pressing "2" again to restart the minute. Once you are in two-way mode you cannot go back to Listen-In.

# **Remote Turn-Off**

The called party can remotely terminate the activated channel any time during the OGM by pressing "1" then "#" twice within one second. The dialer will continue to monitor the remaining channel(s). Once the terminated channel is restored to a non-alarm state, it will re-arm. If in listen-in or two-way, simply press "#" twice in one second, for remote turn-off.

# **REMOTE RESPONDER SYSTEM**

# SECURITY SENSITIVE INFORMATION PAGES 13 THROUGH 15 HAS BEEN SENSORED XX IN THIS INTERNET VERSION OF THE USER MANUAL

## Concept

The AVD-4040 is a combination of an Automatic Voice Dialer and a Remote Responder System (RRS) mounted inside the same enclosure. The RRS shares the same 12V power source and XXXXXXXX with the dialer assembly. Other than those XXXXXX, the RRS is uniquely configured to operate as an independent telephone receiver but without the familiar voice operation. Instead, when called, it allows the user to communicate with it using keypad code sequences to control up to four relay circuits for external interfacing with low voltage/current devices.

# **General Operation**

# **RSS** Operation

When called, after a preset number of rings, the RRS responds by sending a short sequence of high/low beep tones. Setting the number of rings before the RRS responds is done by means of a 4-position switch located on the back of the AVD-4040. Immediately after the high/low alternating confirmation tones, a 20-second timer is started during which the user <u>must</u> complete key code operations to activate, deactivate, or pulse relay circuits. Letting the 20-sec timer expire will cause the telephone line to be disconnected.

<u>Note</u>: It's important to set the number of rings such that other telephone sets on the same extension are allowed to seize the line before the RRS responds. For instance, setting the DIP switch on the back for 1 ring will result in the RRS seizing the line in 6 seconds, which may be too short for other operators to respond to incoming calls. Selecting 2 rings would be a better choice since it takes 12 seconds before the RRS seizes the line. For obvious reasons, an answering machine on a shared line is incompatible with the RRS; the answering machine will never respond if the RRS goes off-hook first. Likewise, if an answering machine comes on first, the RRS will never respond.

## Controlling individual relay circuits

When an incoming call is acknowledged, after hearing the high/low tone sequence, within 20 seconds, the user has the option to individually control any of 4 relays circuits in accordance with steps 1 through 4 below. To prevent staying connected, after 20 seconds, the RRS automatically goes back on-hook and stores relay circuit conditions up to that point in time in non-volatile (EEPROM) memory. In the unlikely event that power is completely off after battery standby has run out, relay circuits will assume the last memorized states when power is restored.

# **REMOTE RESPONDER SYSTEM**

# Power requirements

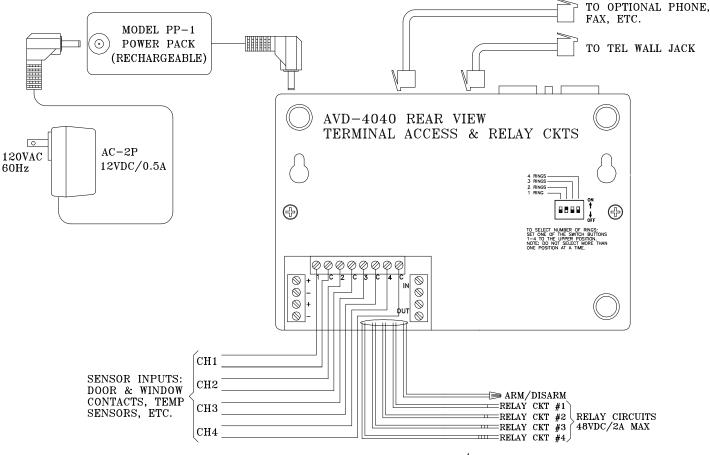
Both dialer and RRS can be simultaneously powered by a single AC-2P with the PP-1 as backup. Because of increased current consumption, depending on the number of relays energized at the same time, battery standby can vary between 6 and 12 hours.

# **CAUTION: Observe Contact ratings**

DPDT relay contacts are internally connected in parallel to double the maximum load capacity to 24VDC/2.5A, resistive load, but not exceeding 48VDC at 2A. Loads beyond these ratings can cause irreparable damage to the RRS relay circuits and external devices to be controlled. If heavier load switching is required, interfacing with external power relays and/or high voltage solid-state switching devices should be considered.

# Wiring

Rear view below shows relay circuit cables pulled through the rectangular access opening on the back, ready for hookup to external equipment. Take note of the striped markings (1 through 4) on individual relay circuit cable pairs. Use standard wire nuts (i.e. AWG 22-16) or other <u>certified means</u> to isolate and firmly connect to external devices. It's strongly recommended to adequately fuse each connected relay circuit with ratings not exceeding 5A.



WIRING INTERFACE WITH REMOTE ARM/DISARM

# REMOTE RESPONDER SYSTEM cont'd

# Setting Up For Remote Arming /Disarming

One of the important applications of the AVD-4040 is the option to remotely arm or disarm the dialer, without having to physically press the M(ode) button on the dialer's front panel. To configure the wiring on the back of the dialer for this purpose, refer to the installation drawing page 14. When the AVD-4040 is shipped from the factory, the ARM/DISARM wire pair is shunted (shorted) by means of a wire nut, which allows the dialer to immediately become active when power is applied. When opened, the dialer goes into a "sleep" mode, during which alarm conditions on its input channels are ignored; no programmed information (voice or stored numbers) will be lost in this mode. With the short removed, connect the exposed copper wires to the number 1 (one stripe) relay circuit using two 22-16 AWG wire nuts. By configuring one of the four RSS circuits (number 1) in this manner, you will be able to control (Arm or Disarm) the monitoring channels remotely.

Assuming that this is the first time the system is used, follow these steps before operating the dialer:

- 1. Connect the TEL IN to a (live) RJ11 phone jack.
- 2. Apply power to the AVD-4040 via the 12V jack on top.
- 3. Notice that the dialer LCD display remains blank dialer is asleep.
- 4. On the 4-position DIP switch set the number of rings to 2.
- 5. Use any cell phone or a landline phone on a different outgoing line and dial XXXXXXXXX.
- 7. This should wake up the AVD-4040 as indicated on the LCD display panel.
- 8. Proceed by programming the dialer (see manual starting on pages 7-11).
- 9. Complete wiring the dialer input channel(s) to various alarm sensors and contacts as desired.
- 10. Press the M(ode) button repeatedly until the dialer is in the OPERATE mode. After confirming that all security loops are working correctly, reset all alarm loops to the non-alarm states and set the dialer back in the OPERATE mode prior to step 11.
- 12. Remember to always leave the dialer in the OPERATE mode, active or during the sleep period.

# Advantages of remotely arming or disarming a security installation

It's often more convenient and more secure for the shop's proprietor, office or warehouse manager, using any phone, to remotely arm or disarm an entire monitored alarm system or part of it - anytime of day or night. The distinct advantage of having remote access to a centralized AVD-4040 security system, which may be concealed in a locked cabinet, is that at no time it's necessary to gain direct access to dialer's front panel controls to change its operation. Access to the dialer and XXXXXXXXX must be limited to the controlling party for this application to remain secure.

# Examples:

- 1. If a proprietor or manager leaves for home and forgets to turn on the alarm system, a quick call from a cell or landline phone would solve the problem by dialing XXX XXX XXX XXX XXX XXX XXX XXX and entering XXX, and confirming by listening to the high beep tones that the alarm system is enabled, without having to return to the protected site to manually activate the system.

- 4. While working alone after hours inside an office or warehouse, with the alarm system off, it might be a good idea to partially activate the perimeter protection circuit via cell phone.

# **Sample Program Planner**

AVD-4040 PROGRAM PLANNER

Date: 12/1/11

PROGRAM:	NUM	BERS		12/1/1
NUMBER		GER	TELEPHONE NUMBER	NAME OF PARTY TO BE REACHED
NOMBER	YES	NO	(exclude PBX digit, include numeric pager code)	NAME OF TAKIT TO BE REACHED
1		$\checkmark$	2345678	John Johnson's house
2				
3				
4				
5	$\checkmark$		3456789PP4455#	John Johnson's pager — burglary code
6	$\checkmark$		3456789PP5544#	John Johnson's pager — fire code
7				
8				

#### PROGRAM: T-LINE

TONE	PULSE	PBX		ATTEMPTS	MESSAGE REPEAT
TONE	FULSE	ON	OFF	1 THROUGH 9	1 THROUGH 3
<ul> <li></li> </ul>		NUMBER	~	2	2

# SAMPLE

#### PROGRAM: OGMs

OPT	ION	STYLE	BRIEFLY DESCRIBE TYPE OF VOICE MESSAGE(S)
	1	NO OGM	
	2	1 OGM	
	3	2 OGMs	
$\checkmark$	4	ID + 2 OGMs	ID: My name is Mary Smith and I need help. OGM1: Call the police department. OGM2: Call the fire department.
	5	3 OGMs	
	6	ID + 3 OGMs	
	7	4 OGMs	
	8	ID + 4 OGMs	

PROGRAM: CHANNELS																							
ENA	BLE	EΣ	KIT DE	ELAY(SEC)	EN	TRY I	ELAY(SEC)		ACTIV	ATION				DIA	LΝ	UMI	BER			Р	LAY	0G	M
YES	N0	YES	NO	0-199	YES	NO	0-199	NO	NC	MOM	CONT	1	2	3	4	5	6	7	8	1	2	3	4
$\checkmark$		<		30	$\langle$		15		$\checkmark$	$\checkmark$		$\checkmark$				$\overline{}$				<			
	<																						
	<																						
$\checkmark$			$\checkmark$	0		$\checkmark$	0	$\checkmark$			$\checkmark$	$\checkmark$					<						
	ENA	ENABLE	ENABLE EX	ENABLE EXIT DE	ENABLEEXIT DELAY(SEC)YESNOYESNOYESNOO-199	ENABLEEXIT DELAY(SEC)ENYESNOYESNO0-199YES	ENABLE         EXIT DELAY(SEC)         ENTRY I           YES         NO         YES         NO         0-199         YES         NO	ENABLE         EXIT DELAY(SEC)         ENTRY DELAY(SEC)           YES         NO         YES         NO         0-199         YES         NO         0-199	ENABLE         EXIT DELAY(SEC)         ENTRY DELAY(SEC)           YES         NO         YES         NO         0-199         YES         NO         0-199         NO	ENABLE         EXIT DELAY(SEC)         ENTRY DELAY(SEC)         ACTIV           YES         NO         YES         NO         0-199         YES         NO         0-199         NO         NC	ENABLE         EXIT DELAY(SEC)         ENTRY DELAY(SEC)         ACTIVATION           YES         NO         YES         NO         0-199         YES         NO         0-199         NO         NC         MOM	ENABLE         EXIT DELAY(SEC)         ENTRY DELAY(SEC)         ACTIVATION           YES         NO         YES         NO         0-199         YES         NO         NC         MOM         CONT	ENABLE       EXIT DELAY(SEC)       ENTRY DELAY(SEC)       ACTIVATION         YES       NO       YES       NO       0-199       YES       NO       0-199       NO       NC       MOM       CONT       1         V       V       30       V       15       V       V       V         V       Image: Control of the state o	ENABLE         EXIT DELAY(SEC)         ENTRY DELAY(SEC)         ACTIVATION           YES         NO         YES         NO         0-199         NO         NC         MOM         CONT         1         2           V         V         30         V         15         V         V         V         V           V         Image: Control of the state of the sta	ENABLEEXIT DELAY(SEC)ENTRY DELAY(SEC)ACTIVATIONDIAYESNOYESNO0-199YONONCMOMCONT123 $\checkmark$ $\checkmark$ $\checkmark$ 30 $\checkmark$ 15 $\checkmark$ <td>ENABLE         EXIT DELAY(SEC)         ENTRY DELAY(SEC)         ACTIVATION         DIAL N           YES         NO         YES         NO         0-199         NO         NC         MOM         CONT         1         2         3         4           V         V         30         V         15         V         V         V         0         0           V         30         V         15         V         V         0         &lt;</td> <td>ENABLE         EXIT DELAY(SEC)         ENTRY DELAY(SEC)         ACTIVATION         DIAL NUMI           YES         NO         YES         NO         0-199         YO         NO         NC         MOM         CONT         1         2         3         4         5           V         V         30         V         15         V</td> <td>ENABLE         EXIT DELAY(SEC)         ENTRY DELAY(SEC)         ACTIVATION         DIAL NUMBER           YES         NO         YES         NO         0-199         NO         NC         MOM         CONT         1         2         3         4         5         6           V         V         30         V         15         V</td> <td>ENABLE         EXIT DELAY(SEC)         ENTRY DELAY(SEC)         ACTIVATION         DIAL         NUMBER           YES         NO         YES         NO         0-199         YES         NO         NC         MOM         CONT         1         2         3         4         5         6         7           V         V         30         V         15         V</td> <td>ENABLE         EXIT DELAY(SEC)         ENTRY DELAY(SEC)         ACTIVATION         DIAL NUMBER           YES         NO         YES         NO         0-199         YES         NO         NO         NC         MOM         CONT         1         2         3         4         5         6         7         8           V         V         30         V         15         V</td> <td>ENABLE       EXIT DELAY(SEC)       ENTRY DELAY(SEC)       ACTIVATION       DIAL NUMBER       P         YES       NO       YES       NO       0-199       YES       NO       NC       MOM       CONT       1       2       3       4       5       6       7       8       1         V       V       30       V       15       V       <td< td=""><td>ENABLE       EXIT DELAY(SEC)       ENTRY DELAY(SEC)       ACTIVATION       DIAL       NUMBER       PLAY         YES       NO       YES       NO       0-199       YES       NO       NO       NC       MOM       CONT       1       2       3       4       5       6       7       8       1       2         V       V       30       V       15       V       &lt;</td><td>ENABLE       EXIT DELAY(SEC)       ACTIVATION       DIAL NUMBER       PLAY 0G         YES       NO       0-199       YES       NO       0-199       NO       NC       MOM       CONT       1       2       3       4       5       6       7       8       1       2       3         V       V       30       V       15       V</td></td<></td>	ENABLE         EXIT DELAY(SEC)         ENTRY DELAY(SEC)         ACTIVATION         DIAL N           YES         NO         YES         NO         0-199         NO         NC         MOM         CONT         1         2         3         4           V         V         30         V         15         V         V         V         0         0           V         30         V         15         V         V         0         <	ENABLE         EXIT DELAY(SEC)         ENTRY DELAY(SEC)         ACTIVATION         DIAL NUMI           YES         NO         YES         NO         0-199         YO         NO         NC         MOM         CONT         1         2         3         4         5           V         V         30         V         15         V	ENABLE         EXIT DELAY(SEC)         ENTRY DELAY(SEC)         ACTIVATION         DIAL NUMBER           YES         NO         YES         NO         0-199         NO         NC         MOM         CONT         1         2         3         4         5         6           V         V         30         V         15         V	ENABLE         EXIT DELAY(SEC)         ENTRY DELAY(SEC)         ACTIVATION         DIAL         NUMBER           YES         NO         YES         NO         0-199         YES         NO         NC         MOM         CONT         1         2         3         4         5         6         7           V         V         30         V         15         V	ENABLE         EXIT DELAY(SEC)         ENTRY DELAY(SEC)         ACTIVATION         DIAL NUMBER           YES         NO         YES         NO         0-199         YES         NO         NO         NC         MOM         CONT         1         2         3         4         5         6         7         8           V         V         30         V         15         V	ENABLE       EXIT DELAY(SEC)       ENTRY DELAY(SEC)       ACTIVATION       DIAL NUMBER       P         YES       NO       YES       NO       0-199       YES       NO       NC       MOM       CONT       1       2       3       4       5       6       7       8       1         V       V       30       V       15       V <td< td=""><td>ENABLE       EXIT DELAY(SEC)       ENTRY DELAY(SEC)       ACTIVATION       DIAL       NUMBER       PLAY         YES       NO       YES       NO       0-199       YES       NO       NO       NC       MOM       CONT       1       2       3       4       5       6       7       8       1       2         V       V       30       V       15       V       &lt;</td><td>ENABLE       EXIT DELAY(SEC)       ACTIVATION       DIAL NUMBER       PLAY 0G         YES       NO       0-199       YES       NO       0-199       NO       NC       MOM       CONT       1       2       3       4       5       6       7       8       1       2       3         V       V       30       V       15       V</td></td<>	ENABLE       EXIT DELAY(SEC)       ENTRY DELAY(SEC)       ACTIVATION       DIAL       NUMBER       PLAY         YES       NO       YES       NO       0-199       YES       NO       NO       NC       MOM       CONT       1       2       3       4       5       6       7       8       1       2         V       V       30       V       15       V       <	ENABLE       EXIT DELAY(SEC)       ACTIVATION       DIAL NUMBER       PLAY 0G         YES       NO       0-199       YES       NO       0-199       NO       NC       MOM       CONT       1       2       3       4       5       6       7       8       1       2       3         V       V       30       V       15       V

#### **Programming Example for Quick Setup**

Before programming the dialer, study the example shown on this page. This "quick setup" example programs in one telephone number, two numeric pager numbers, two attempts, two repeats, an ID plus two additional OGMs, and channels 1 and 4.

Once you understand the setup, use the blank Program Planner on page 14 to begin programming your dialer. We recommend making several blank copies of the Planner before beginning the process. It also is advisable to fill in the Planner in pencil initially.

## STEP 1 Press "1".

**STEP 2** When the LCD reads SELECT 1-8, press "1" to install the first phone number in location 1 press "2" to indicate no pager; then press, in sequence, (fictitious) phone number "2345678" followed by the "\*" sign to store the programming process for that number.

**STEP 3** Press "5" to install the second phone number in location 5; press "1" to indicate numeric pager; then press' in sequence, "3456789PP4455#" followed by the "\*" sign. The first seven digits represent the pager number dialed; each P stands for a 2-second pause; the next four digits followed by the # sign represent the pager code and the \* stores the programming process for that number.

Now press "6" to install the third phone number in location 6; press "1" to indicate numeric pager; then press, in sequence, "3456789PP5544#" followed by the "\*" sign.

#### STEP 4 Press "0" to exit PROGRAM NUMBERS.

STEP 5 At the PROGRAM: T-LINE prompt, press "1" to choose tone; press "2" to indicate no PBX; press "2" to program in two dialing attempts per emergency number called; press "2" to program in two message repeats for each call.

STEP 6 Press "1" to PROGRAM OGM(S). Press "2" three times to Scroll to option #4; press "1" to program in an ID message and two

## specific outgoing messages (OGMs).

STEP 7 Using a prepared script and speaking six-to-eight inches from the dialer's microphone on the front of the unit, press "R" when you are ready to enunciate your 15-second identification message and your two 18-second messages. Dialer automatically prompts to next OGM. Make OGM1 a message telling the receiving party to call the police department. Make OGM2 a message to call the fire department.

# STEP 8 Press "1" to play back all recorded messages; press "1" again to accept. (NOTE: DIALER LCD WILL ONLY SHOW PROGRAMMED NUMBERS AND OGM OPTIONS).

**STEP 9** Press "1" to PROGRAM CHANNELS.

STEP 10 Press "1" to program Channel 1. Press "1" to ENABLE. Press "1" then enter "30" then press "\*" for a 30-second EXIT delay; press "1" then enter "15" then press "\*" for a 15-second entry delay. Now press "2" for NORMALLY CLOSED and then "1" for MOMENTARY activation. Press "1" to select phone/pager number 1 to be dialed. Press "1" again to select phone/pager number 5 to be dialed. Press "2" to not select phone/pager number 6 to be dialed. Press "1" to select OGM1 to be delivered and press "2" to not select OGM2 to be delivered. Press "1" to accept the channel configuration.

STEP 11 Press "4" to program Channel 4. Press "1" to ENABLE. Press "2" twice to indicate no EXIT or ENTRY delay. Now press "1" for NORMALLY OPEN and the "2" for CONTINUOUS activation. Press "1" to select phone/pager number 1 to be dialed. Press "2" to not select phone/pager 5 to be dialed. Press "1" to select phone/pager number 6 to be dialed. Press "2" to not select OGM1 to be delivered and press "1" to select OGM2 to be delivered. Press "1" to accept the channel configuration.

STEP 12 Press "0" to exit PROGRAM: CHANNELS. Press "M" to exit programming mode.

# Fill out this Program Planner in pencil initially

PROGRAM:	NUM	BERS	AVD-4040 PROGRAM PLANNER	Date:
NUMBER	PAG YES	ER NO	TELEPHONE NUMBER (exclude PBX digit, include numeric pager code)	NAME OF PARTY TO BE REACHED
1				
2				
3				
4				
5				
6				
7				
8				

#### PROGRAM: T-LINE

TONE	PULSE	PBX		ATTEMPTS	MESSAGE REPEAT
TONE	PULSE	ON	OFF	1 THROUGH 9	1 THROUGH 3
		NUMBER			

PROG	FRA	M: OGMs	
OPTI	ON	STYLE	BRIEFLY DESCRIBE TYPE OF VOICE MESSAGE(S)
	1	NO OGM	
	2	1 OGM	
	3	2 OGMs	
	4	ID + 2 OGMs	
	5	3 OGMs	
	6	ID + 3 OGMs	
	7	4 OGMs	
	8	ID + 4 OGMs	

#### PROGRAM: CHANNELS

1 1.00	a rection .	OIIA	INTRE IN	5																				
СН	ENABLE EXIT DELAY(SEC)			ENTRY DELAY(SEC)			ACTIVATION				DIAL NUMBER							PLAY OGM			M			
Сп	YES	NO	YES	NO	0-199	YES	NO	0-199	NO	NC	MOM	CONT	1	2	3	4	5	6	7	8	1	2	3	4
1																								
2																								
3																								
4																								

PROGRAM	NUM	BERS	AVD-4040 PROGRAM PLANNER	Date:					
NUMBER	PAC YES	ER NO	TELEPHONE NUMBER (exclude PBX digit, include numeric pager code)	NAME OF PARTY TO BE REACHED					
1									
2									
3									
4									
5									
6									
7									
8									

#### PROGRAM: T-LINE

1 HOGHAM	· 1 DII\D				
TONE	PULSE	PBX	MESSAGE REPEAT		
TONE	FULSE	ON	OFF	1 THROUGH 9	1 THROUGH 3
		NUMBER			

#### PROGRAM: OGMs

1 100	T NOTIANI. OUMS													
OPT	ION	STYLE	BRIEFLY DESCRIBE TYPE OF VOICE MESSAGE(S)											
	1	NO OGM												
	2	1 OGM												
	3	2 OGMs												
	4	ID + 2 OGMs												
	5	3 OGMs												
	6	ID + 3 OGMs												
	7	4 OGMs												
	8	ID + 4 OGMs												

#### PROGRAM: CHANNELS

СН	ENABLE		EXIT DELAY(SEC)			ENTRY DELAY(SEC)			ACTIVATION				DIAL NUMBER								PLAY OGM			
	YES	NO	YES	NO	0-199	YES	NO	0-199	NO	NC	MOM	CONT	1	2	3	4	5	6	7	8	1	2	3	4
1																								
2																								
3																								
4																								

After thoroughly testing your system, redo your Program Planner in ink.

One copy should be kept in a safe place by the end user; one copy should be retained by the installer.

# SPECIFICATIONS

# **Electrical / Dimensions**

Power source: Current (OPERATE mode – standby): Current (OPERATE mode – dialing): Activation: 9-18VDC

28mA typical.

100mA max.

- 1) N.C. Activation: dialer activates when an "open" is detected
- 2) N.O. Activation: dialer activates when a "close" is detected
- 3) Voltage Activation: N.C. (applied voltage: Min. +5VDC, Max. +28VDC)
  - N.O. (loss of continuous voltage: Min. 0VDC, Max. 0.25VDC)

Max. digits for outgoing numbers: Operating temperature range: Dimensions (inches): Weight (ounces): Mounting: Case Material: Color: Warranty: 50 -18 to 55 C (0 to 130 F) 6 x 4 x 2 3/16 inch 16.75oz Wall or Flat Surface ABS White 1 Year

IMPORTANT See additional electrical ratings Remote Responder System page 14

Note: Design and specifications subject to change without notice.

# DIALER ACCESSORIES

# **Power Source**

## AC-2P: AC/DC Adaptor (included with AVD-4040)

Plugs into regular 110VAC outlet to provide the dialer with the required primary power.

## AC-2: AC/DC Adaptor

12VDC/0.5A for stand alone with siren use.

# **PP-1: Power (Rechargeable)**

Provides 12 (est.) hours of backup standby power.

#### **PB12P:**

Includes AC-2P that plugs into regular 110VAC outlet to provide power to PB12P backup battery for primary power and 12 (est.) hours of standby power

## **IR-1:** Isolation Relay

Converts alarm output voltage to N.C. to provide clean input trigger to dialer.

## **Industrial/Residential Sensors**

F20: Temperature Supervisory Switch <40 F HTS: High Temperature Switch WLS: Water Level Sensor RTS: Adjustable Temperature Controller, N.O., N.C. PLS: Power Loss Sensor (110VAC)

## Sensors

Magnetic Contacts – Door and Window Glass Break Detectors Hold Up Buttons/Emergency Switches Pressure Mats – Sealed and Under Carpet Motion Detectors

Siren S-120: 2" Mini Siren, 12VDC @ 120 mA typical **NOTE:** CALL UNITED SECURITY PRODUCTS FOR ADDITIONAL INFORMATION AND DEVICES NOT LISTED HERE.

# **IMPORTANT INFORMATION**

# **Care And Precautions**

# LOCATION

Place the dialer on a flat level surface or mount the unit on the wall, away from extreme cold or heat, direct sunlight, excessive humidity and away from equipment that generate strong magnetic fields. Avoid placing near large metal objects and areas that produce smoke, dust and mechanical vibrations.

# CARE

Clean the housing with a soft cloth lightly moistened with water or mild detergent solution. Never use solvents such as alcohol or thinner. Do not allow liquids to spill into the unit.

# **OPTIONAL BACKUP (included with AVD-4040)**

To ensure continuous operation during power outages, hookup to a 12VDC backup battery pack is recommended. Outer contact is (+) PP-1 available from United Security Products.

# CAUTION

Do not use the dialer if a gas leak is suspected or during lightning.

# PROBLEMS

If liquid or a foreign object penetrates the unit, disconnect it immediately and contact your installer or other qualified technician.

Before calling USP, please make sure...

- You have read this manual and understand how to operate the dialer.
- Your phone line is working.
- You check out the entire system, including external hookup wiring and sensors attached.
- You have read the FAQ Sheet

If you still have questions or concerns, call our USP Technical Service Department between the hours of 6:30 AM and 4:00 PM, PST, Monday through Friday.

## Federal Communications Commission Radio And Television Interference Statement For A Class 'B' Device

This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance

United Security Products Issue date: 06/16/11

with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class 'B' computing device in accordance with the specifications in Subpart B of FCC Rules and Regulations (as outlined in the Code of Federal Regulation, Title 47), which are designed to provide reasonable protection against such interference in a residential installation.

## **User Instructions**

If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off, then on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate radio or television.
- Increase the separation between the equipment and receiver.
- Connect the equipment into a different outlet so that the equipment and receiver are on different branch circuits.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by United Security Products, Inc. could void the user's authority to operate the equipment.

# Thank you for choosing...



# 40 Years of Superior American Manufacturing Made in U.S.A.

**U.S. and FOREIGN PATENTS**