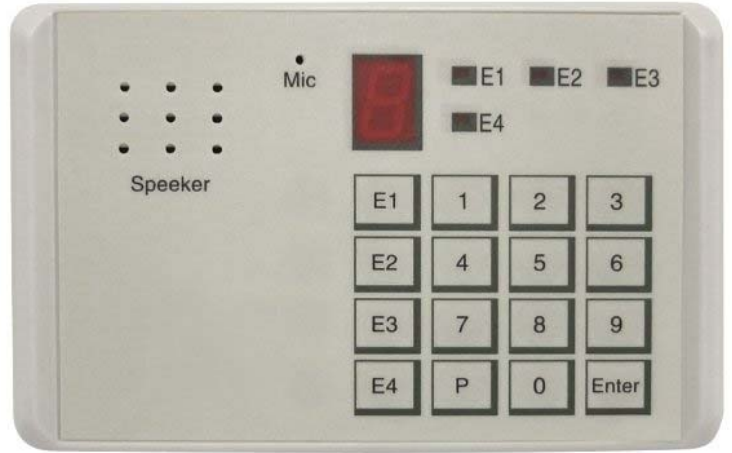


# ENVIROMUX-AVDS-CELC Automatic Voice Dialer INSTALLATION AND OPERATION MANUAL



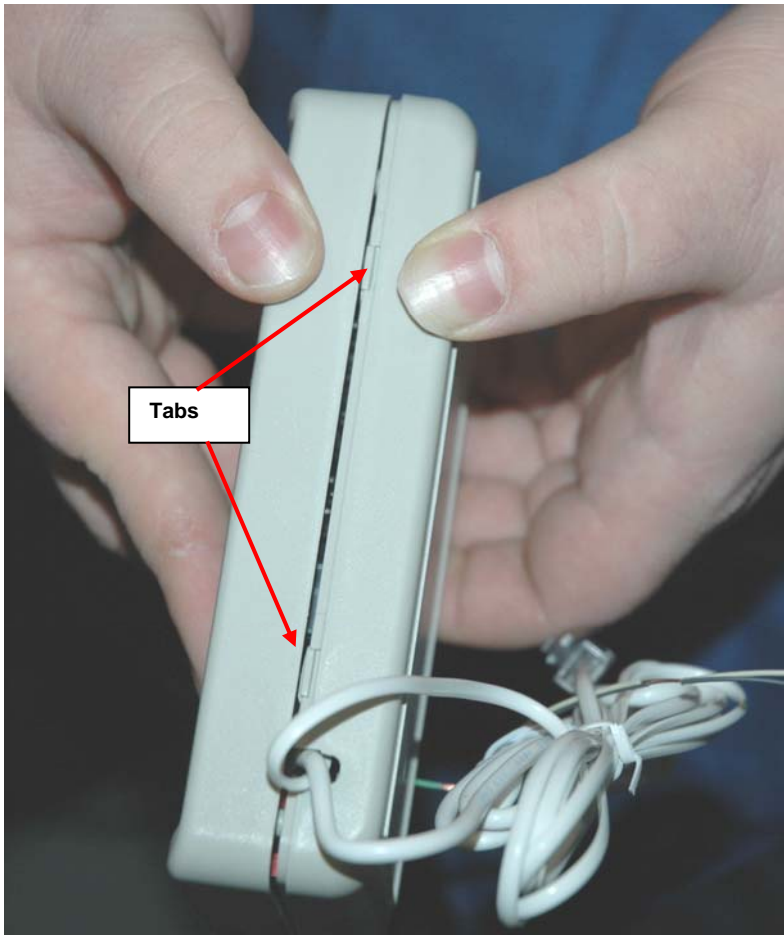
## INTRODUCTION

The ENVIROMUX-AVDS-CELC Automatic Voice Dialer is used to send voice alert messages from an ENVIROMUX Enterprise Environment Monitoring System (SYSTEM) to any user's cell phone or device capable of receiving voice messages.

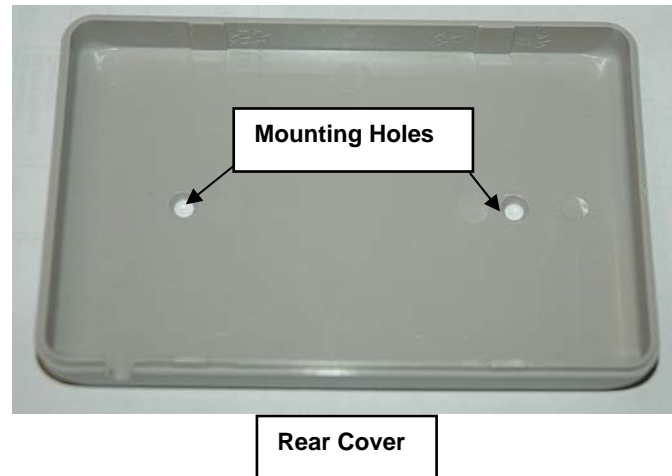
The ENVIROMUX-AVDS-CELCP includes a 12VDC power supply for connection to ENVIROMUX-MINI-LXO, ENVIROMUX-DI16DOR16 or any other SYSTEM where an external power supply will be needed.

## OPEN THE ENVIROMUX-AVDS-CELC

There are four tabs that hold the case together. Two on the top side, and two on the bottom side. To open the case for jumper placement, press down firmly on the seam of the case near the tabs on one side of the case and snap the case halves apart.



With the rear of the case removed, two counter-sunk mounting holes are provided on the rear cover. Use these to secure the ENVIROMUX-AVDS-CELC to your desired mounting location.

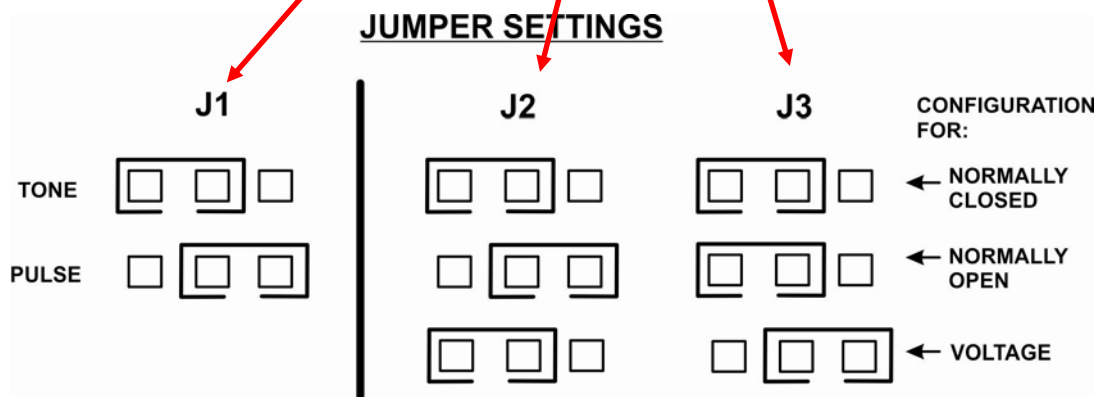
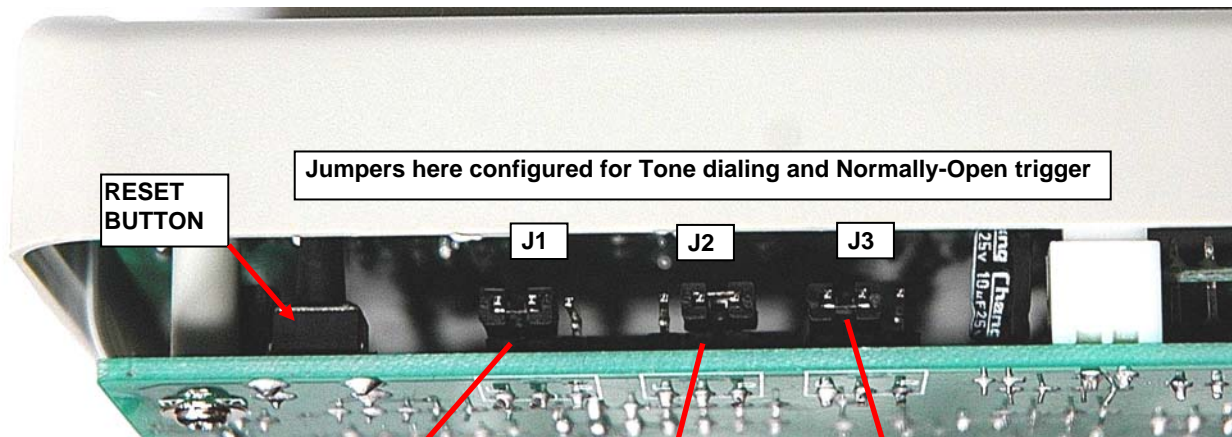
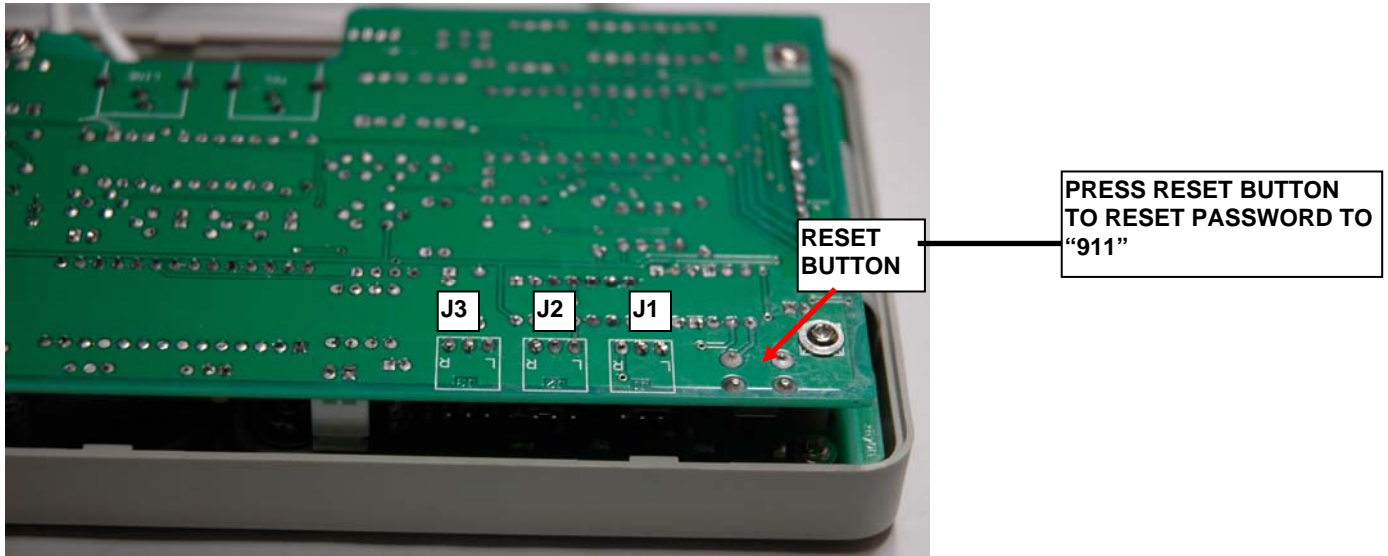


## CONFIGURE THE JUMPERS

Configure the jumpers on the ENVIROMUX-AVDS-CELC for connection to either Pulse or Tone dialing (default is Tone) to send voice messages and to be triggered by either the Normally-Closed (N.C.) or Normally-Open (N.O.) relay contact on the ENVIROMUX-xD. In the image below, the jumpers are set for Tone dialing and connection to the N.O. terminal.

To set the “normal” relay state to Normally-Open, apply the J2 jumper to the center and right pin, and J3 jumper to the center and left pin. In this configuration, a relay closure will trigger an alert state, activating the dialer.

To set the “normal” relay state to Normally-Closed, apply the J2 and J3 jumpers to the center and left pins. In this configuration, a relay open condition will trigger an alert state, activating the dialer.



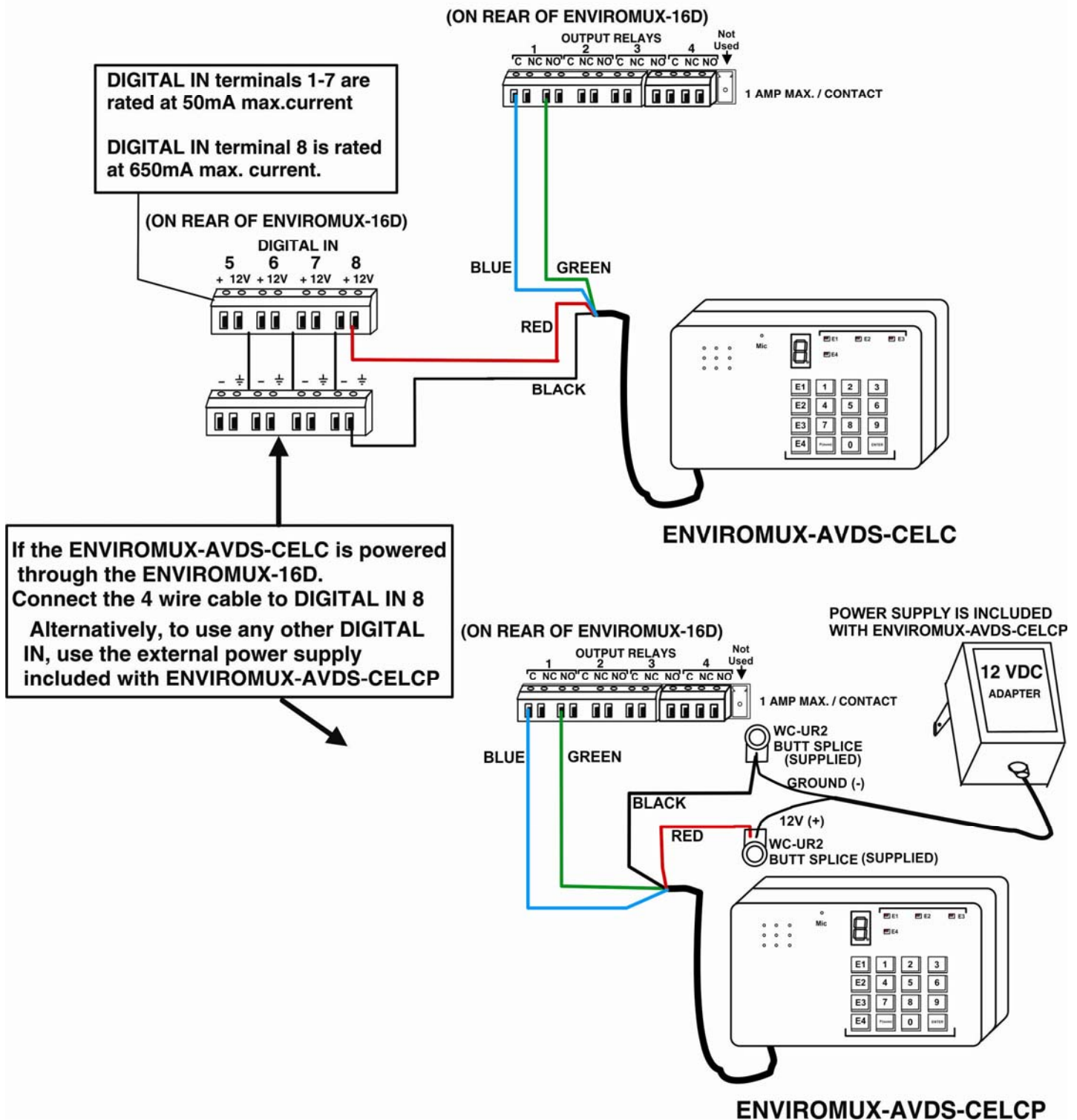
**NOTE:** The “VOLTAGE” jumper position is not used in conjunction with the ENVIROMUX-xD.

With the jumpers properly set, and the rear panel securely mounted, re-assemble the case.

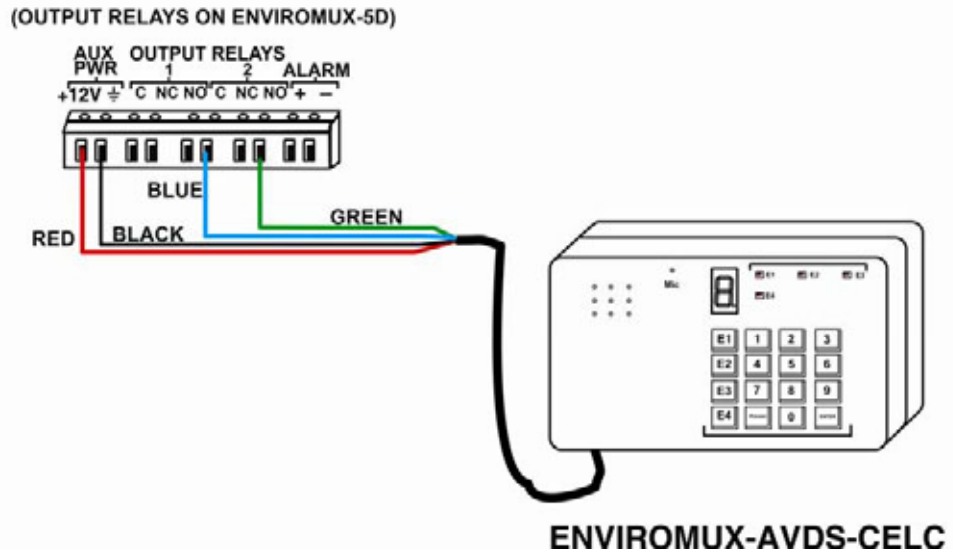
## WIRING METHODS

Connect the cable from the ENVIROMUX-AVDS-CELC to the ENVIROMUX-xD according to one of the following diagrams:  
**Note:** The attached cable is 30" long but can be extended up to 250 feet with any 4-conductor 22AWG (minimum) cable.

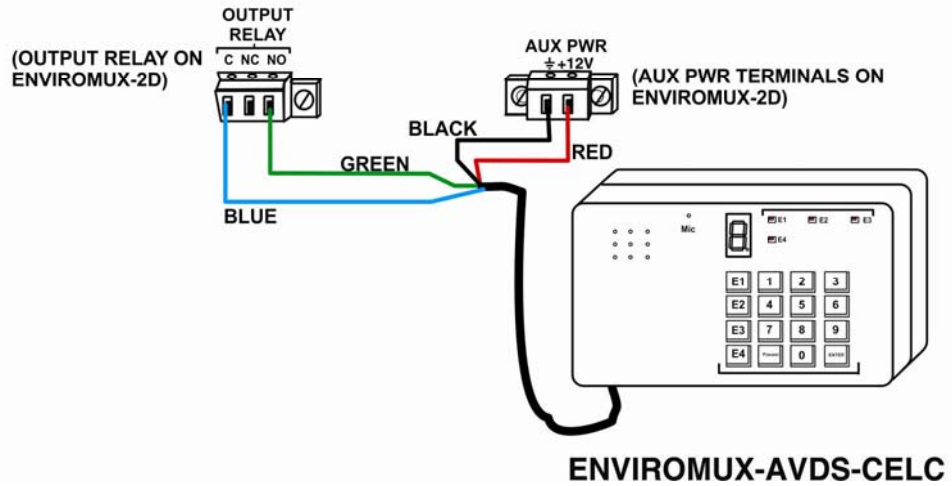
### Example of schematic for wiring ENVIROMUX-AVDS-CELC(P) to ENVIROMUX-16D



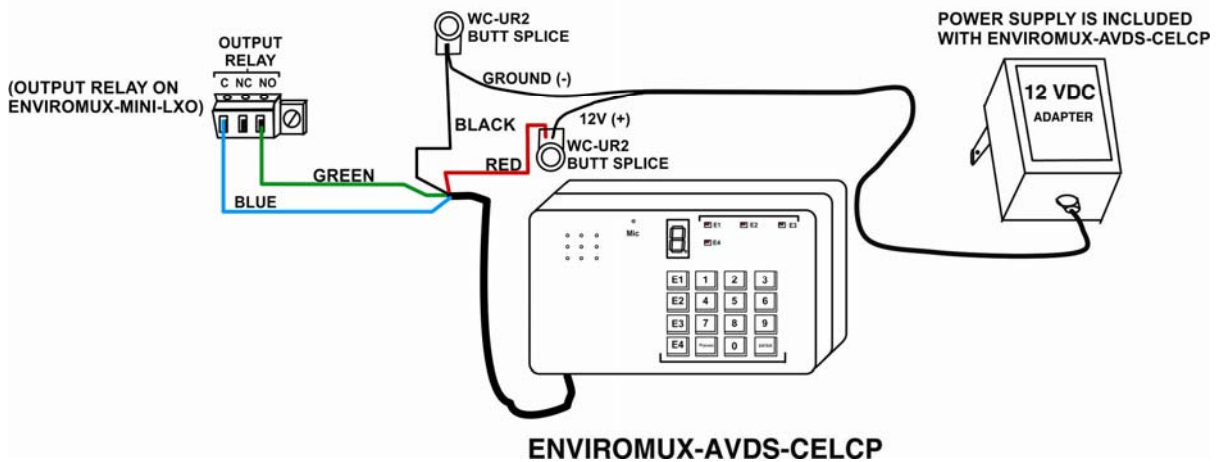
**Example of schematic for wiring ENVIROMUX-AVDS-CELC to ENVIROMUX-5D**

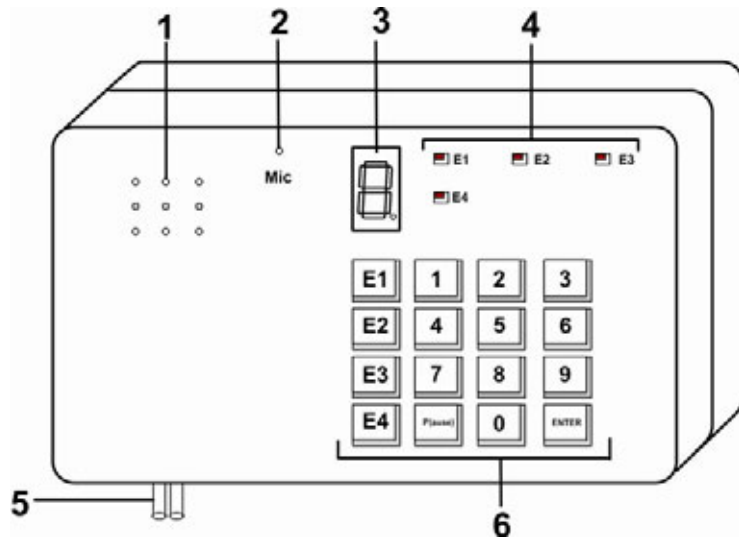


**Example of schematic for wiring ENVIROMUX-AVDS-CELC to ENVIROMUX-2D**



**Example of schematic for wiring ENVIROMUX-AVDS-CELC to ENVIROMUX-MINI-LXO**





## FEATURES

- (1) Speaker
- (2) Microphone
- (3) **LED** 7-segment display- displays the number input, provides indicators for phone numbers, and provides indicator for alarm and standby mode.
- (4) “E1” – “E4” indicators: ON while setting E1-E4 phone/mobile phone numbers.

**Note: E1 through E4 indicators will illuminate while setting the password.**

- (5) Connection Cable
  - red = 12V
  - black = Negative (ground)
  - green = Digital Contact wire #1
  - blue = Digital Contact wire #2

Second cable with RJ11 plug will go into telephone jack

- (6) Buttons: used to enter programming

## GENERAL INFORMATION

**Recording Duration:** 20 seconds,  
Telephone numbers and voice message programming remain intact even if the power is OFF.

**Telephone Number Storage:** 4 telephone numbers and each can be a maximum of 16 digits.

**Second-level Private Password:** 0-6 digit Private Password; the first three digits can be used to stop alarms and the whole password (all six digits) can be used to modify the settings.

**Default Password:** 911

# Auto-Dialer Operation Procedures

## Self-test after Being Turned ON:

After self-test, the instrument is ready to work and the decimal point at the lower right corner on the 7 segment display will turn ON and OFF (continuously blink). If configuration (phone numbers and voice message) already exists, the AUTO-DIALER will alarm automatically upon receiving an alarm signal. To setup or change the configuration, please follow the procedures below to save and check telephone numbers and passwords as well as to record and play back recorded files:

## 1. Log into the Programming Mode:

First press **P** , then put in the Private Password (0-6 digits), then press **ENTER**

**Note: The Default Password is 911**

For instance: Log into the Programming Mode as follows:

P 911 ENTER

If the password you put in is correct, The LED will illuminate the lower half “□”, and then log into the Programming Mode and display “**S**” ,

If the password you put in is incorrect, The LED will display “**E**” and return to the working mode. Repeat the procedure to try again.

## 2. Program the telephone numbers to be dialed

**A.** While in the Programming Mode (the screen displays “**S**”):

Press **E1+ the phone number + ENTER**

For instance, if the telephone number is 93953399, the procedure is as follows:

Press **E1+93953399+ENTER**

After pressing ENTER to save the number, if “□” is displayed, it means the number was saved correctly. The display will then return to Programming Mode (“**S**”);

However, If “**E**” is displayed, it indicates the number failed to be saved correctly; and the Dialer will return to the Programming Mode (“**S**”). Repeat the procedure.

To change a programmed number, follow the same procedure. Entering a new set of numbers will overwrite the first set of numbers.

If desired, to delete a telephone number and leave it blank, press **E1** followed immediately by **ENTER**.

**B.** You can dial to an automated broadcast telephone exchange where you need to automatically dial to an extension after the initial call is picked up. For example, supposed the extension number is 12, then program the saved telephone numbers as follows:

**E1+ initial phone number+ P+1+2+ENTER**

Pressing **P** once causes the dialer to pause for two seconds before sending the additional numbers. If additional time is needed, press **P** twice for four seconds.

To program numbers for E2, E3 and E4, follow the same steps above, substituting the corresponding E# for the number being programmed.

### 3. Search the pre-saved telephone numbers:

In the Programming Mode ("S"), press button **3** to CHECK for programmed numbers.

Then press the E1, E2, E3, E4 or PAUSE to start your intended search, the LED will display relevant numbers.

For example:

Press **3+ E1 or E2 or E3 or E4 or P**

The LED will display in sequence the pre-saved telephone numbers or Private Password and will end each number or password with a single "beep".

### 4. Save and play back the audio message:

**A.** This dialer can save a 20-second audio message. In the Programming Mode ("S"), press button **1** an "r" will be displayed, representing RECORD. The process of recording initiates directly.

For example:

When "r" is displayed, start speaking. After 20 seconds, a "beep" will indicate recording has stopped.

**B.** Play back the help audio information:

Press button **3** and then button **2**. A "P" will be displayed, representing PLAY). The play back of the recorded message will begin immediately.

The procedure is as follows:

**3+2** Play back the pre-saved 20-second message. A "beep" will indicate when it has ended.

### 5. Save and search the password

**A** Save the password:

You can save a Private Password (0-6 digits). The Default Password is **911**.

For example, if the Private Password is **714160**, the procedure is as follows:

In the Programming Mode ("S"), press **P+ 714160 +ENTER** . When "beeps" sound, the input is complete.

**B** Search the password:

In the Programming Mode ("S"), press button **3** and then press **P** to make the password display on the LED.

For example:

Press **3+P**, the LED will display the password and beeps will indicate the end.

**C** If the password gets lost, **with power to the AUTO-DIALER OFF**, open the cover on the dialer (page 1) and press the RESET button (location indicated on page 2). This will restore the Default Password to "911".

### 6 Two programmable alarm behaviors:

**A. Press 5+1+ ENTER:** If the alarm signal is triggered momentarily then the dialer will call the configured numbers. This response can be terminated by entering the password.

**B. Press 5+2+ ENTER:** The dialer will active only if the alarm signal remains constant. If the alarm signal is interrupted, the dialer will terminate response.

**To check which behavior is programmed, press 3+5,**

The relevant A or B programming method will be indicated by “1” or “2” respectively.

The alarm trigger is indicated on the LED by the upper half of the LED illuminating for approximately 6 seconds and then goes dark. Once the dialer is finished the calling cycle, it will resume standby and the decimal point in the lower right corner of the display will blink.

When entering the password, as you press “P”, the upper half of the LED will illuminate. Then, as you enter the numbers making up the password, the numbers will be displayed. Upon completion, the decimal point will start blinking, indicating the dialer is again in standby.

## **7. Stop the alarm signal:**

When the DIALER is triggered, the dialer gets through one of those pre-saved telephone numbers to report alarm. If you need to stop the automatic dialing process, type in the Private Password while “□” appears on the LED. The display will indicate the numbers pressed as they are pressed. If the password is correct, the alarm will terminate, indicated by “beeps”.

**Note:** If the password contains less than three digits, then “0” can be used as a substitute.

For instance: if the password is 1 and 2, then enter **1+2+0**.

## **8. Notice:**

**A.** Alteration can be made to any pre-set configuration. As long as in the Programming Mode, operate according to the steps mentioned previously to save changes automatically.

**B.** It is very important to install and operate according to these instructions. Most problems that may be encountered can be solved by paying special attention to the following:

- (1) Alarm Behavior Setting (See Section 6)
- (2) Alarm Wire Trigger Manner and Jumper Setting (See the trigger signal and telephone system setting on page 2 for details)
- (3) Connection of the Telephone Lines (See the trigger signal and telephone system setting for details)

**C.** Troubleshooting:

- (1) **PROBLEM:** Able to trigger the alarm but failed to dial out the phone number:  
**CAUSE:** The telephone lines are possibly connected in reverse.
- (2) **PROBLEM:** No Alarm  
**CAUSE:** The trigger behavior might be configured incorrectly, namely J2 and J3 jumpers are set up incorrectly (page 2).
- (3) **PROBLEM:** Noisy Audio Playback  
**CAUSE:** Defective power supply powering the dialer is usually the cause of this problem.
- (4) **PROBLEM:** Keeps Dialing  
**CAUSE:** The alarm behavior (Section 6) has not been programmed



## SPECIFICATIONS

Voltage	DC 11V to 15V
Static current	20mA (Based on operating voltage: DC 12V)
Operating current	170mA (MAX) (Based on operating voltage: DC 12V)
Triggering mode	N.C, N.O or voltage signal
Voice recording	20 seconds maximum
Phone numbers	Up to 4 contact numbers
Private password protection	6-digit private password programmable Default password = 911