

AS-80 Digital Voice Alarm Dialer

Version 1.05

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Introduction

The AS-80 is a State-Of-The-Art dual channel alarm dialer. It can be used with alarm systems to notify up to two persons when a burglar and/or fire alarm has been triggered, with an ATM machine to notify up to two persons when a machine is out of money and/or when a machine is out of receipts, or it can even be used in a food locker application to notify up to two persons if the temperature should raise above a certain point. Whatever your application is, the AS-80 can provide immediate notification of the detected problem.

The AS-80 can be programmed to call pagers, cellular phones, home phones or even answering services. The unit has several special commands that allows it to interface easily with most pager systems. You can program the AS-80 so that it will display a special code on your pager so that you can easily identify the problem. For voice calls, you can record your own voice message up to 28 seconds in length for each channel for easy identification of the problem. The AS-80 uses high tech digital integrated circuits for the announcement storage. There are no tapes to break or wear out. The announcement will be retained in the unit for up to ten years without power. Best of all, there are no batteries used in the unit for backup, so you never have to worry about replacing batteries again.

The AS-80 features a well refined answer detect algorithm. The answer detect causes the announcement not to play until the called party actually answers the phone. This way the called party hears the announcement from the beginning and doesn't have to listen to the announcement played over and over like other units.

Programming of the unit can either be done locally, without the use of telephone lines, or from a remote location via the telephone line. Remote programming requires a special four digit security access code so that only authorized personnel can access the unit.

The AS-80 can be connected to a dedicated telephone line or to save money you can share a

telephone line between the AS-80 and a voice line. When installed properly, the AS-80 takes priority over the line and will automatically disconnect the line from the other instruments when it needs access to the line. The AS-80 also has a unique method for handling incoming calls on a shared line. The problem is, "How do you allow incoming voice calls, but still allow the AS-80 remote access?". The AS-80 has the answer. The unit can be setup so that to access the AS-80 you call the line, let it ring twice, hang up, count to five, then call back. The AS-80 will only answer if you follow this sequence. The AS-80 allows the telephone line to be used for both voice and AS-80 incoming calls without hassles.

The AS-80 features a unique set of outputs that can be used to control external devices. Each channel has a dedicated OUTPUT. Each OUTPUT supplies 12vdc @ 20mA when it is "ON". The OUTPUTS are turned "ON" whenever the corresponding channel is activated. The OUTPUTS can be programmed to stay on from 0.1 to 9.8 minutes before resetting. They can also be setup to be latched in the "ON" state until the unit is reset. The OUTPUTS may also be triggered "ON" or "OFF" by remote control. This gives the AS-80 the power to be used as a remote control device.

The AS-80 is fast, versatile, State-Of-The-Art, reliable, and is virtually maintenance free. The AS-80 is the perfect choice for your application.

Features

- **2 Independent Channels**
- **2 alert phone numbers per channel**
- **Phone numbers can be from 2 to 32 digits in length.**
- **6 special dialing commands that make the unit compatible with pager systems.**
- **2 variable length user recordable announcements from 1 to 28 seconds.**
- **Selectable Dial method TONE or PULSE**
- **Variable redials for each channel from 0 to 9.**

- **Two OUTPUT CHANNELS to control external devices with remote control capability.**
- **Programmable RING DELAY for incoming calls, from 1-28, or special SHARE LINE mode.**
- **Programmable DOUBLE CONFIRMATION mode makes unit confirm each number 2 times**
- **3 different answer detect selections**
- **Local or Remote Programming**
- **4 digit security access code for remote programming**
- **Answer disable jumper**
- **Reset button**
- **Indicator leds show status of channels**
- **Priority telephone line circuit gives the AS-80 priority on shared line applications.**
- **Non volatile storage retains all system information and Announcements for up to ten years without power.**
- **No batteries for backup**
- **System operates on 12 VDC @ 200mA.**

Installation

● Phone Line Connection

These terminals connect to the telephone line that the AS-80 will use.

● Phone Set Connection

These terminals are ONLY used if you are sharing a line between the AS-80 and other phones or devices. In this case the other phones must be connected to these terminals and NOT directly to the phone line. The AS-80 should be the only device that is connected directly to the telephone line.

● + Output Channel 1

This is an auxiliary output that can be used to control external devices. When channel 1 on the AS-80 is triggered, the Output goes to +12vdc @ 20mA. The amount of time that the output stays high is dependent on how the unit

was programmed. The output can also be turned "ON" and "OFF" by remote control.

● - Output Channel 1

This is the ground for Output 1. It is tied directly to power ground.

● + Output Channel 2

This is an auxiliary output that can be used to control external devices. When channel 2 on the AS-80 is triggered, the Output goes to +12vdc @ 20mA. The amount of time that the output stays high is dependent on how the unit was programmed. The output can also be turned "ON" and "OFF" by remote control.

● - Output Channel 2

This is the ground for Output 2. It is tied directly to power ground.

● Input #1 (+)

This is the positive input for channel 1. There is approximately +12vdc on this terminal in the idle state. To trigger channel 1 you must place a short across this pin and ground for a minimum of 200 milli-seconds. An open collector NPN transistor may also be used between this terminal and ground.

● Input #1 (Grd)

This is the Ground for Input #1. It is tied directly to power ground.

● Input #2 (+)

This is the positive input for channel 2. There is approximately +12vdc on this terminal in the idle state. To trigger channel 2 you must place a short across this pin and ground for a minimum of 200 milli-seconds. An open collector NPN transistor may also be used between this terminal and ground.

● Input #2 (Grd)

This is the Ground for Input #2. It is tied directly to power ground.

• +12 vdc Power

This is the power input for the AS-80. It must be a regulated voltage in the range of 11-13 vdc @ 200mA. It must have no more than 30mv ripple.

• Ground--Power

This is the power ground for the AS-80.

Operation

To trigger the AS-80 a short must be placed across the input for a minimum of 200 milliseconds. When a channel has been triggered the corresponding LEDS will start to flash. There is a 10 second buffer period before the corresponding OUTPUT channel is triggered and before the AS-80 starts to dial. This allows time for you to reset the unit before it starts dialing. To reset the unit simply press the RESET button for 1/2 second.

After the 10 second buffer period, the AS-80 will take control over the phone line and start the call out process. It will continue calling for that channel until it has received a CONFIRMATION for each of the two phone numbers, or until it has gone through all redials for that channel. The LEDS for the channel will flash at a slow rate to indicate that the phone number was CONFIRMED, and will flash at a fast rate to show that the phone number was NOT CONFIRMED. The LEDS will display this information until the RESET button is depressed, or until the PROGRAMMING mode is entered.

Program Instructions

The AS-80 can be programmed either locally without the use of telephone lines, or it can be programmed from a remote location via the phone line.

• Local Programming

To perform local programming, the AS-80 MUST be connected to +12vdc and a standard single line telephone must be connected to the Local Telephone jack. Do not use a telephone that has a speakerphone build into it. Note: In the program mode, you must enter touch tones within 50 seconds or the AS-80 will time out. When it times out, it will issue a continuous tone. In this case, turn the program switch to "NORM" and then back to "PROGRAM" and re-program the unit.

- 1) Connect a standard single line telephone to the "Local Telephone" jack on the AS-80.
- 2) Connect 12vdc to the POWER terminals on the AS-80.
- 3) Pick up the phone and switch the program switch to the "Program" position.
- 4) After the pulsing tone stops, you are at the OUTPUT CONTROL section.

• Output Control

At this point you can either turn "ON" or turn "OFF" channel 1 or channel 2 outputs. When you turn an output "ON" it will only stay on for the duration of time that is specified in the SYSTEM SETUP INFO. If you do not wish to make any changes in the output control press # and the AS-80 will advance to PHONE NUMBER ENTRY.

***1 = Turn "ON" Channel #1**

***2 = Turn "ON" Channel #2**

***#1 = Turn "OFF" Channel #1**

***#2 = Turn "OFF" Channel #2**

= To Bypass

• Phone Number Entry

There are 4 alert phone numbers that can be entered. Phone numbers 1 and 2 are for channel 1 and phone numbers 3 and 4 are for channel 2. The AS-80 will BEEP one time indicating that you are at the phone number 1 entry point. After you enter the first phone number, press # and the AS-80 will BEEP two times to indicate entry number 2, and so on up to the 4th entry. A phone number can be from 2 to 32 digits in length. If you wish to erase a number simply press 1#. If you wish to bypass an entry without

making any changes to it, press #. If you wish to program a phone number to call a pager see the CALLING A PAGER section for more details.

Enter phone number then press #. Repeat for all 4 phone numbers.

1# = To Erase Number Completely

= To Bypass without making any changes.

- **Special Codes for TONE dialing!**

- *0x = Delay x=1-9 seconds
- *2 = Wait for 5 seconds of Silence before continuing.
- *3 = Dial a STAR Touch Tone
- *4 = Dial a POUND Touch Tone
- *8 = Next Touch Tone will last 6 seconds
- *9 = No Announcement at end of dialing.
- **Special Command Codes for Pulse Dialing!**
- ** = Switch to TONE dialing for the rest of the phone number
- *x = Delay x=1-9 seconds

- **System Setup Info**

The SYSTEM SETUP INFO is a string of 11 digits that controls many different functions on the AS-80. If you wish to make any changes at all, you MUST enter all 11 digits. If you should make a mistake during the entry, and you have not entered all 11 digits yet, simply press # and a dual tone error tone will sound. When the error tone is finished you can re-enter the 11 digit SYSTEM SETUP INFO. Once you have entered the 11 digit number the AS-80 will continue to the ANNOUNCEMENT mode. The following is a diagram showing the SYSTEM SETUP INFO and a description of each parameter.

- **Description of Parameters**

The following 8 parameters make up the 11 digit SYSTEM SETUP INFO. The default string is:

0 1 1 02 10 10 2 0

From left to right, the parameters are: Dial Method, Redials for #1, Redials for #2, Rings Until Answer, Output #1 Control Time, Output #2 Control Time, Answer Detect Mode and Double Confirmation.

- **Dial method**

This parameter controls the dial method the AS-80 uses when it makes outbound calls. The choice is either 1 for Dial Pulse(Rotary), or 0 for Touch Tone; default is 0.

- **Redials for #1**

This is the number of times that the AS-80 will redial alert numbers attempting to confirm a call for channel 1. If the parameter is set to 0, it will only call the initial time. This can be set from 0 to 9; the default is 1.

- **Redials for #2**

This is the number of times that the AS-80 will redial alert numbers attempting to confirm a call for channel 2. If the parameter is set to 0, it will only call the initial time. This can be set from 0 to 9; the default is 1.

- **Rings Until Answer**

This parameter controls how many rings before the AS-80 answers an incoming call. If the parameter is set to 29, then a the SHARED LINE feature is enabled. The SHARED LINE feature causes the AS-80 not to answer incoming calls unless a special format is followed. This format is that you call the line, let it ring two times, hang up, wait 5 seconds than call the line again. The line will ring one time than the AS-80 will answer the call. The SHARED LINE feature allows the AS-80 to operate on a standard voice line and allow both AS-80 incoming calls and standard voice calls to come in without interruption. It is important to note that the AS-80 will not answer any incoming call if the ANSWER/NO ANSWER jumper is set to the NO ANSWER position. This can be set from 01 to 29; the default is 02.

- **Output #1 Control**

This parameter controls how long OUTPUT #1 stays "ON" after it has been triggered. OUTPUT #1 can be triggered two different ways. The first way is by triggering the channel by shorting the input for 200mili-seconds or longer. Once the input has been triggered, there is a 10 second buffer before the OUTPUT goes high. After the 10 second buffer period, the OUTPUT is triggered and stays high for the

time designated by this parameter. The second way that the OUTPUT can be triggered is by switching it "ON" in programming mode. Here again the OUTPUT will only stay high as specified by this parameter. If this parameter is set to 99, then the OUTPUT will stay "ON" until it is turned "OFF" in program mode, or until the RESET button on the AS-80 is depressed, or until power is removed from the AS-80.

The parameter is entered as tenths of minutes. This means that an entry of 01 would equal one tenth of a minute or 6 seconds. An entry of 20 would represent 2 minutes while an entry of 35 would represent a time of 3.5 minutes or 3 minutes 30 seconds. This can be set from 01 to 98; the default is 10.

- **Output #2 Control**

This parameter controls how long OUTPUT #2 stays "ON" after it has been triggered. OUTPUT #2 can be triggered two different ways. The first way is by triggering the channel by shorting the input for 200mili-seconds or longer. Once the input has been triggered, there is a 10 second buffer before the OUTPUT goes high. After the 10 second buffer period, the OUTPUT is triggered and stays high for the time designated by this parameter. The second way that the OUTPUT can be triggered is by switching it "ON" in programming mode. Here again the OUTPUT will only stay high as specified by this parameter. If this parameter is set to 99, then the OUTPUT will stay "ON" until it is turned "OFF" in program mode, or until the RESET button on the AS-80 is depressed, or until power is removed from the AS-80.

The parameter is entered as tenths of minutes. This means that an entry of 01 would equal one tenth of a minute or 6 seconds. An entry of 20 would represent 2 minutes while an entry of 35 would represent a time of 3.5 minutes or 3 minutes 30 seconds. This can be set from 01 to 98; the default is 10.

- **Answer Detect**

This parameter controls how the AS-80 will detect a CONFIRMED condition. The DEFAULT is mode 2 which is the Normal Answer Detect. In mode 2 the unit will call the

number, if the line is BUSY, or if the phone is not answered by the 5th ring, the AS-80 will consider the call not confirmed. If it detects that the call has been answered, it will deliver the pre-recorded announcement. Mode 1 works the same but has more noise immunity built into it. Mode 1 should be used if you should experience frequent false answer detect in mode 1.

In mode 0, the AS-80 will dial the number, waits approximately 7.5 seconds, then will deliver the announcement. At the end of the Announcement the AS-80 will BEEP and wait 6 seconds for a touch tone 1 to be dialed. The called party must dial a touch tone 1 either during the announcement or during the 6 second silent period to cause a call to be CONFIRMED. This can be set from 0 to 2; the default is 2.

- **Double Confirmation**

When Double Confirmation is enabled, the unit must detect two CONFIRMATION conditions for each phone number, before it will consider the call CONFIRMED. This can be set 0 for one confirmation or 1 for double confirmation; the default is 0.

- **Announcement**

In the announcement section you may either test announcements or record new announcements for either or both channels. Each channel has a variable length Announcement from 1 to 28 seconds in length. During playback you can stop the announcement by pressing the 1 touch tone.

1# = Playback Channel 1 Message

2# = Playback Channel 2 Message

***1# = Record Channel 1 Message.**

Press # to end.

***2# = Record Channel 2 Message.**

Press # to end.

= To Bypass

After you have finished with the Announcement section you will hear a solid tone. At this point turn the program switch back to the NORMAL position and you have finished the program process.

• Remote Programming

In this mode you can re-program the unit by calling it from a remote location any where in the world, via a touch tone telephone. The ANSWER/NO ANSWER jumper must be in the ANSWER position to gain access to the AS-80 over the telephone line. To access the unit call the phone number that the AS-80 is connected to. The AS-80 will answer the call on the ring as specified by the RINGS UNTIL ANSWER parameter in the SYSTEM SETUP INFO. If this parameter is set to the SHARED LINE mode (29), then you must call the line, wait for it to ring two times, hang up, count to 5, then call again.

Once the AS-80 answers the line it will emit a single BEEP. At the end of the BEEP enter the following security access code:

1234#

At this point the AS-80 will BEEP on and off to indicated that you have gained access to the unit. You MUST keep making Touch Tone entries or the AS-80 will time out and disconnect after approximately 50 seconds.

• Output Control

At this point you can either turn "ON" or turn "OFF" channel 1 or channel 2 outputs. When you turn an output "ON" it will only stay on for the duration of time that is specified in the SYSTEM SETUP INFO. If you do not wish to make any changes in the output control press # and the AS-80 will advance to PHONE NUMBER ENTRY.

***1 = Turn "ON" Channel #1**

***2 = Turn "ON" Channel #2**

***#1 = Turn "OFF" Channel #1**

***#2 = Turn "OFF" Channel #2**

= To Bypass

• Phone Number Entry

There are 4 alert phone numbers that can be entered. Phone numbers 1 and 2 are for channel 1 and phone numbers 3 and 4 are for channel 2. The AS-80 will BEEP one time indicating that you are at the phone number 1 entry point. After you enter the first phone number, press # and

the AS-80 will BEEP two times to indicate entry number 2, and so on up to the 4th entry. A phone number can be from 2 to 32 digits in length. If you wish to erase a number simply press 1#. If you wish to bypass an entry without making any changes to it, press #. If you wish to program a phone number to call a pager see the CALLING A PAGER section for more details.

Enter phone number then press #. Repeat for all 4 phone numbers.

1# = To Erase Number Completely

= To Bypass without making any changes.

• Special Codes for TONE dialing!

- ***0x = Delay x=1-9 seconds**
- ***2 = Wait for 5 seconds of Silence before continuing.**
- ***3 = Dial a STAR Touch Tone**
- ***4 = Dial a POUND Touch Tone**
- ***8 = Next Touch Tone will last 6 seconds**
- ***9 = No Announcement at end of dialing.**
- **Special Command Codes for Pulse Dialing!**
- **** = Switch to TONE dialing for the rest of the phone number**
- ***x = Delay x=1-9 seconds**

• System Setup Info

The SYSTEM SETUP INFO is a string of 11 digits that controls many different functions on the AS-80. If you wish to make any changes at all, you MUST enter all 11 digits. If you should make a mistake during the entry, and you have not entered all 11 digits yet, simply press # and a dual tone error tone will sound. When the error tone is finished you can re-enter the 11 digit SYSTEM SETUP INFO. Once you have entered the 11 digit number the AS-80 will continue to the ANNOUNCEMENT mode. The following is a diagram showing the SYSTEM SETUP INFO and a description of each parameter.

• Description of Parameters

The following 8 parameters make up the 11 digit SYSTEM SETUP INFO. The default string is:

0 1 1 02 10 10 2 0

From left to right, the parameters are: Dial Method, Redials for #1, Redials for #2, Rings Until Answer, Output #1 Control Time, Output #2 Control Time, Answer Detect Mode and Double Confirmation.

- **Dial Method**

This parameter controls the dial method the AS-80 uses when it makes outbound calls. The choice is either Pulse for Dial Pulse(Rotary), or Tone for Touch Tone. The choice is either 1 for Dial Pulse(Rotary), or 0 for Touch Tone; default is 0.

- **Redials for #1**

This is the number of times that the AS-80 will redial alert numbers attempting to confirm a call for channel 1. If the parameter is set to 0, it will only call the initial time. This can be set from 0 to 9; the default is 1.

- **Redials for #2**

This is the number of times that the AS-80 will redial alert numbers attempting to confirm a call for channel 2. If the parameter is set to 0, it will only call the initial time. This can be set from 0 to 9; the default is 1.

- **Rings Until Answer**

This parameter controls how many rings before the AS-80 answers an incoming call. If the parameter is set to 29, then a the SHARED LINE feature is enabled. The SHARED LINE feature causes the AS-80 not to answer incoming calls unless a special format is followed. This format is that you call the line, let it ring two times, hang up, wait 5 seconds than call the line again. The line will ring one time than the AS-80 will answer the call. The SHARED LINE feature allows the AS-80 to operate on a standard voice line and allow both AS-80 incoming calls and standard voice calls to come in without interruption. It is important to note that the AS-80 will not answer any incoming call if the ANSWER/NO ANSWER jumper is set to the NO ANSWER position. This can be set from 01 to 29; the default is 02.

- **Output #1 Control**

This parameter controls how long OUTPUT #1 stays "ON" after it has been triggered.

OUTPUT #1 can be triggered two different ways. The first way is by triggering the channel by shorting the input for 200mili-seconds or longer. Once the input has been triggered, there is a 10 second buffer before the OUTPUT goes high. After the 10 second buffer period, the OUTPUT is triggered and stays high for the time designated by this parameter. The second way that the OUTPUT can be triggered is by switching it "ON" in programming mode. Here again the OUTPUT will only stay high as specified by this parameter. If this parameter is set to 99, then the OUTPUT will stay "ON" until it is turned "OFF" in program mode, or until the RESET button on the AS-80 is depressed, or until power is removed from the AS-80.

The parameter is entered as tenths of minutes. This means that an entry of 01 would equal one tenth of a minute or 6 seconds. An entry of 20 would represent 2 minutes while an entry of 35 would represent a time of 3.5 minutes or 3 minutes 30 seconds. This can be set from 01 to 98; the default is 10.

- **Output #2 Control**

This parameter controls how long OUTPUT #2 stays "ON" after it has been triggered. OUTPUT #2 can be triggered two different ways. The first way is by triggering the channel by shorting the input for 200mili-seconds or longer. Once the input has been triggered, there is a 10 second buffer before the OUTPUT goes high. After the 10 second buffer period, the OUTPUT is triggered and stays high for the time designated by this parameter. The second way that the OUTPUT can be triggered is by switching it "ON" in programming mode. Here again the OUTPUT will only stay high as specified by this parameter. If this parameter is set to 99, then the OUTPUT will stay "ON" until it is turned "OFF" in program mode, or until the RESET button on the AS-80 is depressed, or until power is removed from the AS-80.

The parameter is entered as tenths of minutes. This means that an entry of 01 would equal one tenth of a minute or 6 seconds. An entry of 20 would represent 2 minutes while an entry of 35 would represent a time of 3.5 minutes or 3 minutes 30 seconds. This can be

set from 01 to 98; the default is 10.

- **Answer Detect**

This parameter controls how the AS-80 will detect a CONFIRMED condition. The DEFAULT is mode 2 which is the Normal Answer Detect. In mode 2 the unit will call the number, if the line is BUSY, or if the phone is not answered by the 5th ring, the AS-80 will consider the call not confirmed. If it detects that the call has been answered, it will deliver the pre-recorded announcement. Mode 1 works the same but has more noise immunity built into it. Mode 1 should be used if you should experience frequent false answer detect in mode 1.

In mode 0, the AS-80 will dial the number, waits approximately 7.5 seconds, then will deliver the announcement. At the end of the Announcement the AS-80 will BEEP and wait 6 seconds for a touch tone 1 to be dialed. The called party must dial a touch tone 1 either during the announcement or during the 6 second silent period to cause a call to be CONFIRMED. This can be set from 0 to 2; the default is 2.

- **Double Confirmation**

When Double Confirmation is enabled, the unit must detect two CONFIRMATION conditions for each phone number, before it will consider the call CONFIRMED. This can be set 0 for one confirmation or 1 for double confirmation; the default is 0.

- **Announcement**

In the announcement section you may either test announcements or record new announcements for either or both channels. Each channel has a variable length Announcement from 1 to 28 seconds in length. During playback you can stop the announcement by pressing the 1 touch tone.

1# = Playback Channel 1 Message

2# = Playback Channel 2 Message

***1# = Record Channel 1 Message.**

Press # to end.

***2# = Record Channel 2 Message.**

Press # to end.

= To Bypass

After you have finished with the Announcement section you will hear a solid tone then the AS-80 will hang up.

- **Programming for Pagers**

The equipment that pager services use vary greatly in the way that they operate. For this reason we have developed several different methods to use with the AS-80 so that it will work with your pager service. We suggest that you try the different methods that are listed below until you find the method that works well with your service.

For our examples below we want our pager to display the number 1234 when an alert condition has been detected. The local number for the pager is 555-2554.

- **Example #1**

➤ **5552554*21234*4*9**

For the next example we need to call a long distance number, 800-555-2000, followed by a 5 digit pin number, 98765, followed by the identification number 1234.

- **Example #2**

➤ **18005552000*298765*4*031234*4*9**

If you are unsuccessful at getting your pager to work, please call for technical support.

Technical Specifications

- **Weight:1.0 lbs**
- **Height:1.3 inches**
- **Width:5.8 inches**
- **Depth:5.475 inches**
- **Storage Temperature:-65 Degrees C to +150 Degrees C**
- **Operating Temperature:0 Degrees C to +70 Degrees C**
- **Operating Voltage:11 vdc to 13 vdc**
- **Maximum Ripple Voltage:30 mili-volts RMS**
- **Maximum Current:200 mili-Amps**
- **Channels:2**

- **Input Short Circuit Current:48 MicroAmps**
- **Phone Numbers/Channel:2**
- **Phone Number Length:2 to 32 digits**
- **Announcements:2 . One for each Channel**
- **Announcement Length:Variable length to 28 seconds each.**
- **Announcement Type:Digital--8 KHz sample rate**
- **OUTPUTS:2--1 for each channel**
- **Output Voltage:12vdc @ 20 mili-Amps**

AS-80 Alarm Dialer

Version 2.00

Quick Programming Guide

After initial BEEP enter access code:

1 2 3 4 #

Output Control

← Start here for Local Programming

* 1 = Turn ON Channel #1
* 2 = Turn ON Channel #2
* # 1 = Turn OFF Channel #1
* # 2 = Turn OFF Channel #2
= To Bypass

Phone Number Entry

(Phone Number) then #

Entry MUST be from 2 to 32 characters long.

<1> <#> at beginning to ERASE phone number

of BEEPS indicate the phone number you are on (1-4)

at beginning to leave phone number unchanged.

====Tone Command Codes=====

* 0x = Delay (x=1-9 seconds)

*2 = Wait for 5 seconds of Silence.

*3= Dial a STAR Touch Tone

*4= Dial a POUND Touch Tone

*8= Next tone, sound for 6 seconds

*9=No Announcement Play

==== Pulse Command Codes =====

**=Switch to Tone Dialing

*x=Delay(x=1-9 seconds)

System Setup Info

= To Bypass

0	1 1	02	10	10	2	0
Dial Method (0-1) 0=Tone 1=Pulse	Redials for #2 (0-9) Redials for #1 (0-9)	Rings Until Answer (01-29) 29=Ring 2 Times, Hang Up, Count to 5, Call Back within 40 seconds.	Output #2 Control 0.1 to 9.8 Minutes 99=LATCH ON (01-99)	Output #1 Control 0.1 to 9.8 Minutes 99=LATCH ON (01-99)	Answer Detect 0=Tone to RESET 1=Noisy Lines 2=Normal Answer Detect (0-2)	Double Confirmation 0=No 1=Yes

Announcement

1 # = Playback Announcement #1
2 # = Playback Announcement #2
* ' # = Record Ann. #1, Press POUND to end.
* 2 # = Record Ann. #2, Press POUND to end.
= to Bypass.

Tech Support - 916-786-6186

If you have any problems getting the unit to work properly feel free to give us a call. Technical Support is available between the hours of 7:30 AM and 4:30 PM Pacific Time, Monday through Friday.

WARRANTY

This SKUTCH PRODUCT is warranted against defects for a period of one (1) year from the date of the original invoice. Within this period, we will repair it without charge for parts and labor. To obtain warranty service the product must be returned, at the customer's expense, to SKUTCH Electronics along with a copy of the original invoice. After the unit has been repaired, SKUTCH will ship the PRODUCT back via UPS GROUND service at our expense. If any other form of return shipment is requested, the customer will pay for 100% of the shipping cost.

This Warranty does not apply if in the sole opinion of SKUTCH Electronics, the PRODUCT has been damaged by lightning or any other Acts of God, or by accident, misuse, neglect, or improper packing, shipping, modification or servicing by other than an authorized SKUTCH Service Center.

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