

# Model 1108

## User's Manual



version 1.03



***Phonetics, Inc.***

## *Sensaphone® Model 1108 User's Manual*

Every effort has been made to ensure that the information in this document is complete, accurate and up-to-date. Phonetics, Inc. assumes no responsibility for the results of errors beyond its control. Phonetics, Inc. also cannot guarantee that changes in equipment made by other manufacturers, and referred to in this manual, will not affect the applicability of the information in this manual.

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Written and produced by Phonetics, Inc. Please address all comments on this publication to:

Phonetics, Inc.

901 Tryens Road

Aston, PA 19014

[www.sensaphone.com](http://www.sensaphone.com)

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# IMPORTANT SAFETY INSTRUCTIONS

Your Model 1108 has been carefully designed to give you years of safe, reliable performance. As with all electrical equipment, however, there are a few basic precautions you should take to avoid hurting yourself or damaging the unit:

- Read the installation and operating instructions in this manual carefully. Be sure to save it for future reference.
- Read and follow all warning and instruction labels on the product itself.
- To protect the Model 1108 from overheating, make sure all openings on the unit are not blocked. Do not place on or near a heat source, such as a radiator or heat register.
- Do not use your Model 1108 near water, or spill liquid of any kind into it.
- Be certain that your power source matches the rating listed on the AC power transformer. If you're not sure of the type of power supply to your facility, consult your dealer or local power company.
- Do not allow anything to rest on the power cord. Do not locate this product where the cord will be abused by persons walking on it.
- Do not overload wall outlets and extension cords, as this can result in the risk of fire or electric shock.
- Never push objects of any kind into this product through ventilation holes as they may touch dangerous voltage points or short out parts that could result in a risk of fire or electric shock.
- To reduce the risk of electric shock, do not disassemble this product, but return it to Phonetics Customer Service, or other approved repair facility, when any service or repair work is required. Opening or removing covers may expose you to dangerous voltages or other risks. Incorrect reassembly can cause electric shock when the unit is subsequently used.

- If anything happens that indicates that your Model 1108 is not working properly or has been damaged, unplug it immediately and follow the procedures in Appendix C for having it serviced. Return the unit for servicing under the following conditions:
  1. The power cord or plug is frayed or damaged.
  2. Liquid has been spilled into the product or it has been exposed to water.
  3. The unit has been dropped, or the cabinet is damaged.
  4. The unit doesn't function normally when you're following the operating instructions.
- Avoid using a telephone (other than a cordless type) during an electrical storm. There may be a remote risk of electric shock from lightning.
- Do not use the telephone to report a gas leak in the vicinity of the leak.

### **CAUTION**

To Reduce the Risk of Fire or Injury to Persons, Read and Follow these Instructions:

1. Use only the following type and size batteries:  
Alkaline, size D.
2. Do not dispose of the batteries in a fire. The cell may explode. Check with local codes for possible special disposal instructions.
3. Do not open or mutilate the batteries. Released electrolyte is corrosive and may cause damage to the eyes or skin. It may be toxic if swallowed.
4. Exercise care in handling batteries in order not to short the battery with conducting materials such as rings, bracelets, and keys. The battery or conductor may overheat and cause burns.
5. Do not mix old and new batteries in this product.

## FCC Requirements

**Part 68:** The Sensaphone® Model 1108 complies with Part 68 of the FCC rules. On the back of the unit there is a label that contains, among other information, the FCC Registration Number and the Ringer Equivalence Number (REN) for this equipment. You must, upon request, provide this information to your local telephone company.

The REN is useful to determine the quantity of devices that you may connect to your telephone line and still have all of those devices ring when your telephone number is called. In most, but not all areas, the sum of the REN's of all devices connected to one line should not exceed five (5.0). To be certain of the number of devices that you may connect to your line, you may want to contact your local telephone company to determine the maximum REN for your calling area.

This equipment may not be used on coin service provided by the telephone company. Connection to party lines is subject to state tariffs.

Should the Model 1108 cause harm to the telephone network, the telephone company may discontinue your service temporarily. If possible, they will notify you in advance. But if advance notice isn't practical, the telephone company may temporarily discontinue service without notice and you will be notified as soon as possible. You will be informed of your right to file a complaint with the FCC. The telephone company may make changes in its facilities, equipment, operations, or procedures where such action is reasonably required in the operation of its business and is not inconsistent with the rules and regulations of the FCC that could affect the proper functioning of your equipment. If they do, you will be notified in advance to give you an opportunity to maintain uninterrupted telephone service.

If you experience trouble with this equipment, or you need information on obtaining service or repairs, please contact:

PHONETICS, INC.  
901 Tryens Road, Aston, PA 19014  
(610)558-2700 Fax: (610)558-0222

The telephone company may ask that you disconnect this equipment from the network until the problem has been corrected or until you are sure that the equipment is not malfunctioning.

**Part 15:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/television technician for help.

## Canadian Department of Communications Statement

**Notice:** The Canadian Department of Communications label identifies certified equipment. This certification means that the equipment meets certain telecommunications network protective operational and safety requirements. The Department does not guarantee the equipment will operate to the user's satisfaction.

Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local telecommunications company. The equipment must also be installed using an acceptable method of connection. In some cases, where the company's inside wiring is associated with a single line, individual service may be extended by means of a certified connector assembly (telephone extension cord). The customer should be aware that compliance with the above conditions may not prevent degradation of service in some situations.

Repairs to certified equipment should be made by an authorized Canadian maintenance facility designated by the supplier. Any repairs or alterations made by the user to this equipment, or equipment malfunctions, may give the telecommunications company cause to request the user to disconnect the equipment.

Users should ensure for their own protection that the electrical ground connections of the power utility telephone lines and internal metallic water pipe system, if present, are connected together. This precaution may be particularly important in rural areas.

**CAUTION:** Users should not attempt to make such connections themselves, but should contact the appropriate electric inspection authority, or electrician, as appropriate.

The Load Number (LN) assigned to each terminal device denotes the percentage of the total load to be connected to a telephone loop which is used by the device to prevent overloading. The termination on loop may consist of any combination of devices subject only to the requirement that the total of the Load Numbers of all the devices does not exceed 100. For the Sensaphone® Model 1108, the Load Number is 8.

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# Model 1108

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# Chapter 1: Introduction

The Sensaphone® Model 1108 is a fully-programmable, environmental monitoring system that offers extensive on-site and remote monitoring capability to small businesses, private homes, farms, greenhouses, computer rooms, and remote facilities. Designed for desktop or wall mounting, the Model 1108 is simple to install, program and operate; no changes to standard electrical or telephone service are required. Connected to a telephone line, it will respond to an alarm by dialing up to eight separate telephone numbers. When the call is answered, an “Alert Condition” message is delivered in digitized speech.

The Model 1108 features built-in sensors to monitor a variety of conditions:

- High sound level
- AC electric power failure
- Battery backup
- Temperature\*

\*(Note: While technically not a “built-in” sensor, temperature is factory installed on input 1, and if left installed will limit your additional inputs as listed below to 7.)

Equipped with 8 alert inputs, additional sensors\* can be added for extended monitoring:

- Intrusion or unauthorized entry
- Water leaks and seepage
- Temperature
- Humidity
- Equipment operation
- Many other conditions that may require unique monitoring solutions

\*Refer to Appendix B for information on additional sensors (available separately from Phonetics) that are best suited to your application.

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The status of each monitored condition is readily obtained at the unit's installation site or remotely, by telephone. At the close of every Status Report, time is provided for listening to on-site sounds.

To ensure reliable operation, the Model 1108 features power backup capability; in the event of AC power failure, six D-cell batteries (not included) will continue to power the unit for approximately 24 hours.

This manual comprises the instructions and commands for installing and operating the Model 1108. The Quick Start chapter is included to speed understanding of programming and operation. Communication and Alarm Programming chapters demonstrate step-by-step methods for utilizing the full range of available features. The Troubleshooting chapter provides assistance in the event that problems are encountered.

## **Technical Support**

If any questions arise upon installation or operation of the Model 1108, please contact Phonetics Technical Service Department at the number shown below, and have the following information:

- Date of Purchase \_\_\_\_\_
- Serial Number of your Model 1108 \_\_\_\_\_

Technical Support is available from 8:00 AM to 5:00 PM EST.

### ***Phonetics, Inc.***

901 Tryens Road

Aston, PA 19014

(610)558-2700

Fax: (610)558-0022

[www.sensaphone.com](http://www.sensaphone.com)

# Chapter 2: Installation

Correctly installing the Model 1108 will ensure proper functioning of the unit. Please read the entire chapter before starting the installation process.

Within the packaging will be a Warranty Registration Card. Please take the time to fill this out and mail. The One Year Limited Warranty is explained in the back of this manual.

## 2.1 Operating Environment

The Model 1108 should be installed and operated in an area that provides space for wiring sensors to the screw terminals, near an AC power source and telephone line. Operating temperature ranges from 32° Fahrenheit (0° Celsius) to +120° Fahrenheit (+49° Celsius).

### NOTE

The Model 1108 is a sensitive electronic device. Do not install the Model 1108 near strong electrostatic, electromagnetic or radioactive fields. Do not expose to fumes or corrosive vapors.

## 2.2 Mounting

Flat Mount: Place the Model 1108 on top of a desk or other horizontal surface. Wall Mount: Mount on a wall with two screws using the keyholes on the back panel of the unit. Place the screws or bolts  $3\frac{1}{16}$ " apart at the desired height from the floor. Hook the unit over the screws and toward the floor. Refer to Figure 2-1.

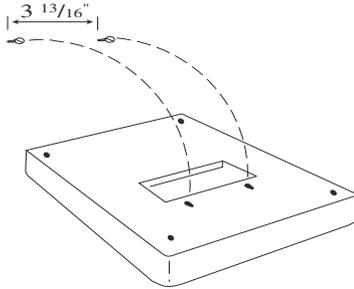


Figure 2-1. Wall Mount

### 2.3 Power Surge Protection

The Model 1108 can be damaged by power surges and lightning through the telephone line and the 120 VAC power supply. Although the Model 1108 has built-in surge protection, **we recommend that additional protection be obtained for the unit and for any electronic equipment that is attached to your power supply and telephone lines. Power surge protection is especially important if you live in a lightning-prone area.** The ISOTEL Surge Protector Model IB-4 is available through Phonetics. See Appendix B.

### 2.4 Power Supply and Battery Backup

The Model 1108 is provided with an AC power transformer that will plug into any standard 120 VAC outlet and a battery backup (batteries not included) that enables the unit to continue functioning if AC power is removed (due to electric power disruption or failure). The Model 1108 uses six, D-cell alkaline batteries. Do not use rechargeable nicad batteries.

#### NOTE

Be sure that the AC transformer is plugged into an outlet before installing batteries.

To install the batteries, open the battery compartment hatch located underneath the unit, align batteries according to the diagram shown in Figure 2-2, and replace the hatch.

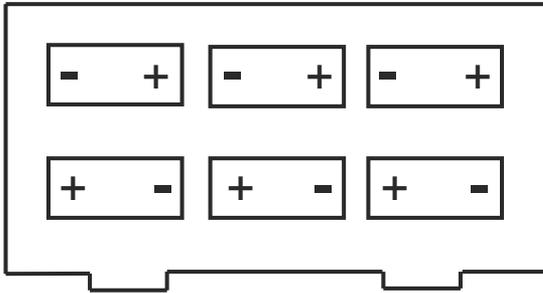


Figure 2-2. Battery Installation

## 2.5 Starting the Model 1108

When the AC power transformer is first plugged into the electrical outlet, the Model 1108 automatically starts in RUN mode. The red LED light will begin to glow. The unit will respond with “*Hello, this is Sensaphone® 1108.*”

## 2.6 Run Mode and Standby Mode

Pressing the RUN/STANDBY key on the Model 1108 keypad will alternately activate or deactivate the unit. If the unit is activated and in RUN mode, the red LED (small red light on the upper right of the unit's front panel) glows steadily. In STANDBY mode, the red LED goes out, but will blink every few seconds to indicate that power is still supplied to the unit.

In RUN mode, the Model 1108 is able to receive incoming calls and to automatically dial out in the event of an alarm on one of the monitored conditions. To enter STANDBY mode, press RUN/STANDBY.

As soon as the Model 1108 enters STANDBY mode, it responds with “*Have a good day.*” The red light immediately goes out and then resumes with a blink every few seconds. While in STANDBY mode, all functions are disabled, but programmed memory is preserved. Upon exiting STANDBY mode, any currently existing alert conditions will be announced.

**NOTE**

STANDBY mode is not equivalent to “power off”—an electrical source, such as the 120 VAC, or the battery backup, continues to provide full power to the unit. If the unit is placed in STANDBY mode, unplugged from the 120 VAC outlet, and placed in storage, the batteries will continue to power the Model 1108, discharging until they fail. Consequently, batteries should always be removed from the unit following disconnection from any 120 VAC outlet, prior to storage.

Press the RUN/STANDBY key again to return to RUN mode.



**Figure 2-3. The RUN/STANDBY Key**

## **2.7 Telephone Line**

The Model 1108 will operate with all standard telephone systems that accept pulse or tone dialing. The Model 1108 cannot be used on an extension line to dial its own telephone number. Also, it may not be installed on a party line or pay telephone line.

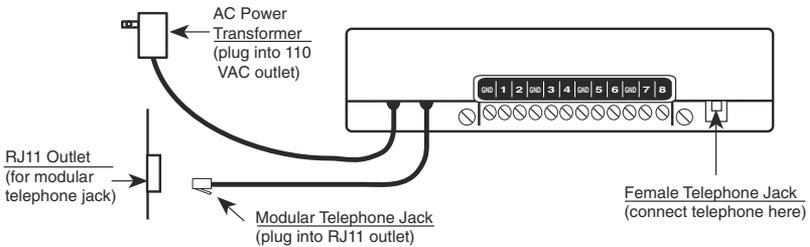
Certain private telephone systems and public switching equipment may not accept the Model 1108 dialing or may generate an unacceptable ring signal. In those cases, a dedicated line may be required. Consult the supplier of your telephone system if you encounter problems.

If you do not have a modular telephone extension at the Model 1108's location, you must contact your local telephone company to have one installed (there is a charge for this service). If you have four-pin jacks, adapters are available to convert them to the modular plugs. Contact your local telephone company or electronics parts store.

**CAUTION**

Never install telephone wiring during a lightning storm. Never install telephone jacks in wet locations unless the jack is specifically designed for wet locations. Never touch uninsulated telephone wires or terminals unless the telephone line has been disconnected at the network interface. Use caution when installing or modifying telephone lines.

To install the telephone line, plug the modular telephone jack provided into any standard RJ11 phone outlet. Refer to Figure 2-4.



**Figure 2-4. Installing the Telephone Line**

On the back of the Model 1108 is a female telephone jack. This is provided so that a telephone or other answering device may be used on the same line as the unit. It is not necessary to hook up a telephone for the Model 1108 to operate.

## 2.8 The Microphone

The Model 1108 is provided with a built-in microphone which is used to monitor high sound levels produced near the installation site. The sensitivity of the microphone is configurable and will detect a continuous as well as a beeping alarm.

Other programming options that apply to the microphone include setting the length of time before a high sound causes an alarm.

If this sound level exists for 8 consecutive seconds (default) or for the programmed length of time, the Model 1108 will dial out with an alarm message.

**NOTE**

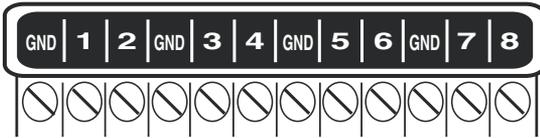
The proximity of the audible alarm to the microphone is extremely important. Normally, the Model 1108 and the audible alarm must be in the same room. The maximum distance can vary considerably depending on the alarm, the acoustics, and the size of the room.

During an alarm dial-out, the microphone allows four-second intervals to listen-in to sounds at the Model 1108's location.

When calling for a Status Report, the microphone permits listening to on-site sounds for a programmed time interval.

**2.9 Alert Inputs**

The Model 1108 can monitor up to 8 inputs (represented by the numbered terminal screws shown in Figure 2-5, below). Two input terminals share the same ground.



**Figure 2-5. Alert Inputs**

Inputs are configured as either dry contact or temperature. An input configured as dry contact can be used with any normally open (N.O.) or normally closed (N.C.) device. “Open” refers to an opened circuit path; if conditions cause the circuit to close, an alert condition occurs. “Closed” refers to a continuous circuit path; if a closed circuit is opened, an alert condition occurs. The Model 1108 determines the way inputs are configured by the type of sensor connected to each alert input (refer to Chapter 5, Section 5.1).

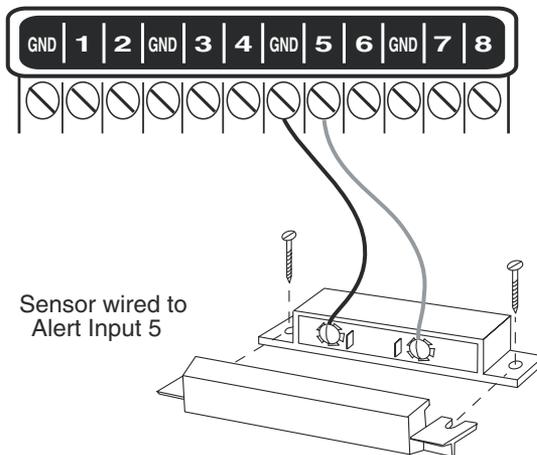
An input configured as “temperature” is designed to evaluate a range of settings. The Model 1108 will read the temperature at the sensor’s location and compare that value to programmed high and low temperature limits. Temperature inputs *must* be used with Phonetics Remote Temperature Sensor.

**NOTE**

Before wiring, it is advisable to disable the inputs to prevent accidentally tripping an alarm. Refer to Chapter 5, Section 5.2.

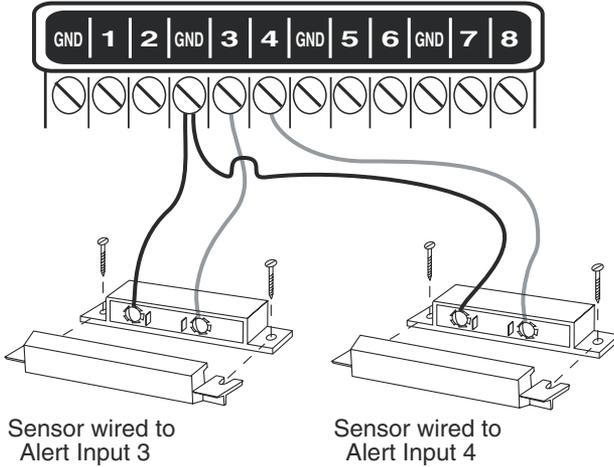
## 2.10 Installing the Sensor

After you have selected the sensor, loosen the screw of the alert input and its corresponding ground. Two wire leads are used to connect any monitoring sensor. Fasten one lead to the numbered screw and the other lead to GND. Tighten both screws. If the input was not disabled, the Model 1108 may recite its “Alert Condition Exists” message as you connect the sensor. If it does, just press any key to stop. Re-enable the input after wiring. Refer to Figures 2-6 and 2-7 for connecting a sensor to an alert input.



**Figure 2-6. Sensor Connected to an Alert Input**

Any sensor can be attached to the Model 1108 using 22-gauge wire. The sensor can be several hundred feet from the unit, as long as the total resistance of the circuit is not greater than 50 ohms. Use wire appropriate for the application.



**Figure 2-7. Two Sensors Wired to Adjacent Inputs Share the Same Ground Terminal Screw**

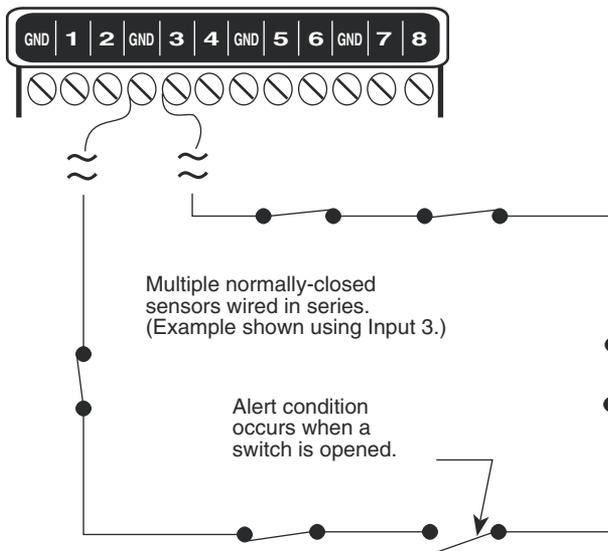
**NOTE**

Do not use sensors, switches, or relays that supply any voltage or current to the Model 1108. Be aware of proximity to other electrical wires or components when placing wires that lead from the sensors to the unit. Avoid running the wires near electrical devices that use high voltage or current, such as motors, heavy machinery, etc. This voltage may be inductively coupled into the sensor wiring and could result in damage to the the Model 1108's circuitry. Try to place wires at least 6 inches from other electrical wiring or devices.

## 2.11 Multiple Sensors

The Model 1108 may have more than one sensor connected to the same alert input, as long as the normal condition for each sensor on the same alert input is identical (either all N.O. or all N.C.). However, only one remote temperature sensor can be used on each input.

When wiring several normally closed sensors on one input, they must be connected in series. Connect one lead from the first sensor to the numbered screw of the alert input. Next, take the other lead from the first sensor and connect it to one lead from the next sensor. Continue connecting sensors end-to-end until you have connected all of your sensors. Take the second lead from the last sensor and connect it to the ground screw on the Model 1108. See Figure 2-8. Multiple N.C. sensors are typically magnetic reed switches to monitor the security of windows and doors.



**Figure 2-8. Multiple Normally Closed Sensors**

To wire several normally open sensors to one alert input, connect them in parallel. To do this, take one lead from each sensor and attach it to the numbered terminal. Then, take the second lead from each sensor and attach each to the corresponding ground screw. Refer to Figure 2-9.

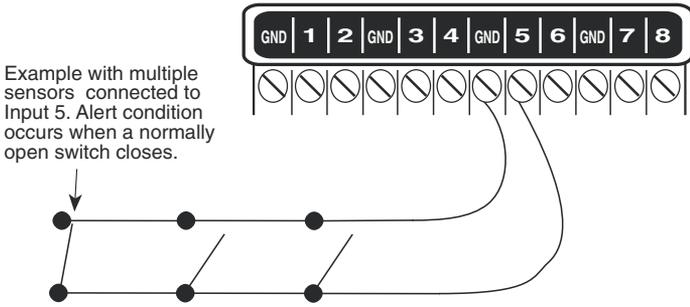


Figure 2-9. Multiple Normally Open Sensors

## 2.12 Outdoor Wiring

When wiring sensors outdoors, **DO NOT** allow exposed wires to run freely in open air; under such conditions, the Model 1108 is susceptible to serious damage during a lightning storm. Depending upon the distance outdoor wiring must travel, consideration should be given to use of shielded wire inside a metal conduit. Both shield and conduit should be connected to earth ground. This prevents stray voltage from entering the unit.

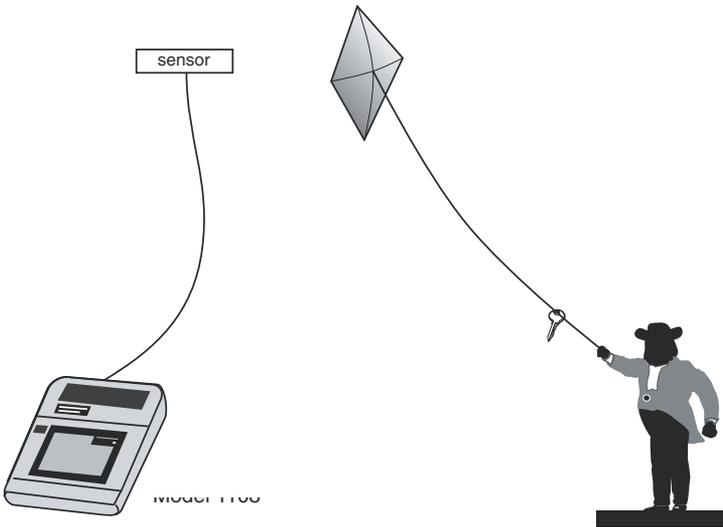


Figure 2-10. Potential Sensor Damage from Stray Electrical Noise

## **2.13 Disconnecting the Model 1108 for Storage or Seasonal Use.**

If you plan to employ the Model 1108 as a seasonal “watch-dog” for a few months during the year, **you must disconnect all wires from the unit completely to avoid damage to the circuitry when the unit is not in use**. If the unit is unplugged but left in place with all the sensors still connected, the wires act as antennae that draw in any stray “electrical noise” from such devices as fans, blowers, microwaves, etc.

Additionally, it is important to remove the batteries, or they will discharge until they fail.

Preserve your Model 1108 during the off-season, or when not in use:

- Remove the sensor wires at the screw terminals
- Remove the batteries
- Unplug the unit and store in a safe place



# Chapter 3: Quick Start

This section presents a useful guide for first-time programming of the Model 1108. Follow instructions for installation before attempting to program the Model 1108. Refer to Chapter 2: Installation.

## 3.1 The Local Keypad

Programming is accomplished using the local keypad (shown below, Figure 3-1). Notice that a single key has several functions assigned to it; *programming results are determined by the order in which keys are pressed.*

Individual keystrokes are illustrated to show programming steps in the correct order. If you make a mistake by entering the wrong key, do not press another key until you hear the message “Error 1.” Then, start over with the first key in the programming sequence.

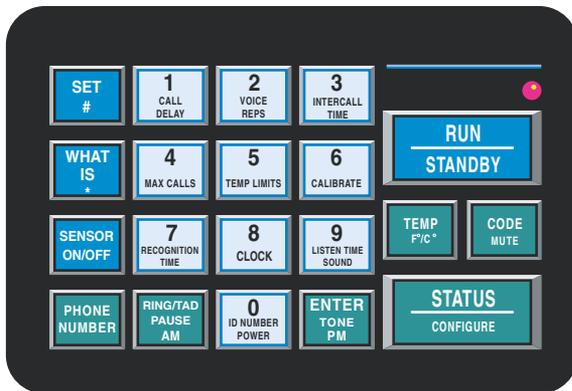


Figure 3-1. The Model 1108 Keypad

### 3.2 Preparation for Programming

Read complete instructions in Chapter 2: Installation, and make sure to follow these steps first:

1. Plug the AC adaptor into the 120 VAC outlet.
2. Install the batteries.
3. Connect the Model 1108 to a telephone line.

When these steps are completed, the Model 1108 is fully operational and able to monitor temperature, high sound, AC power failure and battery backup condition; it can also be called on the telephone for a Status Report or used for listening to on-site sounds from any remote location. Now, the unit is ready for programming.

### 3.3 Quick-Start Programming Steps

#### Step 1: Set Configuration of Inputs

The Model 1108 will scan the 8 external inputs and determine if they are N.O. (normally open), N.C. (normally closed), or Temperature. If external sensors are added, make sure they are in their *normal* positions before proceeding—refer to Chapter 5, Section 5.1.

1. Press STANDBY to place the Model 1108 in Standby mode.



2. If you have external sensors available, wire the sensors to the inputs on the back of the Model 1108 (see Chapter 2, Section 2.10). Otherwise, skip this step and move to step 3.
3. Press RUN. The red light glows when the Model 1108 returns to Run mode.



4. Press SET.



5. Press CONFIGURE.



6. The Model 1108 will audibly recite the new configuration for each of the eight inputs, responding with “OK,” if it detects N.O. (normally open), “beep-OK,” if it detects N.C (normally closed) or “Temperature,” if it detects temperature (regardless of whether all the inputs have attached sensors or not). If an input is unused, it is treated as normally open.

## Step 2: Set the ID Number

It is recommended that you set the ID number to reflect the telephone number on which the Model 1108 is installed.

1. Press SET.



2. Press ID NUMBER.



3. Using the number keys, enter the digits (up to 16 are permitted) for the ID number. The Model 1108 will recite the digits as they are pressed.



4. Press ENTER. The 1108 will respond: "Enter."



### Step 3: Set Dial-Out Telephone Numbers

To program dial-out telephone numbers:

1. Press SET.



2. Press PHONE NUMBER.



3. Select which telephone number to program. Press any unassigned number key (from 1 to 8) to represent the new telephone number entry. Model 1108 will respond: "Enter number."



4. Enter the complete telephone number using the number keys. The Model 1108 will recite the digits as they are pressed.



5. Press ENTER. The unit will respond: "Enter."



6. Repeat above procedure to program up to eight separate telephone numbers.

## Step 4: Set Temperature Limits

High and low temperature limits can be separately programmed for each input that is configured as temperature. Limits can range from  $-20^{\circ}$  to  $+150^{\circ}$  Fahrenheit, or from  $-30^{\circ}$  to  $65^{\circ}$  Celsius. Default settings are:  $10^{\circ}$  F for low temperature and  $100^{\circ}$  F for high temperature. Do not set temperature limits too close to normal room temperature, since minor fluctuations could result in frequent and unnecessary alarm dialouts.

1. Press SET.



2. Press TEMP LIMITS.



3. From the number keys, press a number (from 1 to 8) that corresponds to the temperature input being programmed.



The Model 1108 responds: “Enter low temperature limit.”

4. Using the number keys, enter a value for low temperature limit. The Model 1108 will recite the digits as they are pressed. If a negative number is required, first press PAUSE, then enter the number.



5. Press ENTER.



The Model 1108 responds: “Enter high temperature limit.”

- Using the number keys, enter the value for high temperature limit. The Model 1108 will recite the digits as they are pressed.



- Press ENTER. The Model 1108 responds: “Enter.”



This concludes minimum programming to achieve normal operation of the Model 1108. In addition to the programming just accomplished, default settings for many more features take effect when the unit is first powered. You will be able to reprogram most of these factory-set defaults to suit your application.

For a complete explanation of each feature (with illustrations of keystrokes), refer to Chapter 4: Communications Programming and Chapter 5: Alarm Programming.

To gain a basic understanding of how the alarm dial-out feature works, refer to this chapter, Section 3-4. For extended information regarding dial-out and related programmable parameters, refer to Chapter 7: Operation.

### 3.4 Summary of the Alarm Dial-Out Process

Action—Response	Programmable Feature
<p><b>1. THE Model 1108 DETECTS AN ALERT CONDITION</b></p> <p>An alert condition is not the same as a valid alarm—the condition must continue for the programmed time period, or <i>Recognition Time</i>, before it is recognized as a valid alarm.</p> <p><b>2. A VALID ALARM IS CONFIRMED</b></p> <p>An audible, on-site alarm message begins and continues until the alarm is acknowledged. (If the Mute feature is turned on, there is no on-site message.) <i>Call Delay</i> is activated.</p> <p><b>3. DIAL-OUT BEGINS</b></p> <p>Dial-out begins by calling telephone number 1 to report an alarm. If there is no acknowledgment, the Model 1108 waits the programmed <i>Intercall Time</i> before dialing subsequent telephone numbers. Dial-out continues in this manner, cycling through the remaining telephone numbers, for the programmed <i>Max Calls</i>.</p> <p><b>4. THE ALARM IS ACKNOWLEDGED</b></p> <p>When the alarm is acknowledged, the dial-out process is cancelled and the audible, on-site alarm message stops.</p>	<ul style="list-style-type: none"> <li>• <b>Recognition Time</b></li> <p>This is the programmed waiting period to determine if an alert condition has persisted long enough to be considered a valid alarm. If the sensor returns to normal within recognition time, then no alarm will occur.</p> <li>• <b>Call Delay</b></li> <p>This is the programmed waiting period, before the first telephone number is called, to report an alarm.</p> <li>• <b>Intercall Time</b></li> <p>This is the programmed waiting period, in between sequential dialing of telephone numbers, to report an alarm.</p> <li>• <b>Max Calls</b></li> <p>This is the total number of telephone calls that will be dialed in response to any valid alarm. Telephone numbers are dialed sequentially, and continue to cycle until the maximum number of calls is reached. If no acknowledgment occurs, then at the completion of Max Calls, all alarms are automatically acknowledged.</p> </ul>



# Chapter 4: Communications Programming

This chapter explains the keypad commands for communications programming of the Model 1108, including interrogation and resetting of the following:

- The Unit ID Number
- Dial-out Telephone Numbers
- Tone or Pulse Dialing
- Special Dialing with Pagers, Beepers and Access Numbers.
- Rings Until Answer and Telephone Answering Device Compatibility
- Listen-in Time
- Call Delay
- Local Voice Mute
- Voice Repetitions
- Intercall Time
- Maximum Number of Calls
- The Clock
- Security Code

## 4.1 The Unit ID Number

The Unit ID Number is the identification number of the Model 1108. This number may be the same as the telephone number where the unit is installed, or it may be designated using any number that best suits your application.

The purpose of the Unit ID Number is to immediately provide the source of any alarm, especially when using multiple Model 1108 units in a complex monitoring system. When the Model 1108 is called from a remote location, it always begins its message with the identification number:

*“Hello, this is telephone number (Unit ID Number).”*

### 4.1.1 Programming the ID Number

To program the ID Number:

1. Press SET.



2. Press ID NUMBER.



3. Using the number keys, enter up to 16 digits for the ID number. The Model 1108 will recite the digits as they are pressed.



4. Press ENTER. The Model 1108 will respond: "Enter:"



### 4.1.2 Interrogating the ID Number

To interrogate the ID numbers:

1. Press WHAT IS.



2. Press ID NUMBER. The Model 1108 will recite the Unit ID Number programmed.



## 4.2 Dial-out Telephone Numbers

The Model 1108 can store up to eight 32-digit phone numbers. These are the numbers that will be called during dial-out. In the event of an alarm, the numbers are dialed sequentially, 1 through 8. Begin programming the first telephone number by assigning it to the key labeled with the number 1 on the keypad, and continue to assign any other telephone numbers in numerical order. *A pause, pound or asterisk can be added to an individual phone number to access different phone and beeper systems. See Special Dialing, Section 4.4.*

### 4.2.1 Programming Dial-out Telephone Numbers

To program dial-out telephone numbers:

1. Press SET.



2. Press PHONE NUMBER.



3. Select which telephone number to program. Press any unassigned number key (from 1 to 8) to represent the new telephone number entry. The Model 1108 will respond: “Enter number.”



4. Enter the complete telephone number using the number keys.



5. Press ENTER. The unit will respond with "Enter."



6. Repeat above procedure to program up to eight separate telephone numbers.

## 4.2.2 Interrogating a Dial-out Telephone Number

To interrogate dial-out telephone numbers:

1. Press WHAT IS.



2. Press PHONE NUMBER.



3. Press a number key (from 1 to 8).



Model 1108 will recite the corresponding telephone number. If there is no number programmed for a particular key, the unit will respond: "No number."

## 4.2.3 Erasing a Telephone Number

To erase a telephone number:

1. Press SET.



2. Press PHONE NUMBER.



3. Press the number key (from 1 to 8) representing the telephone number you want to erase.



4. Press ENTER. The Model 1108 will say, “Enter.”



### 4.3 Tone or Pulse Dialing

The Model 1108 can dial out in pulse or Touch-Tone™. Select the type of dialing, in either pulse or tone, depending upon the type of service provided by your telephone company. The default is tone.

To program for either pulse or tone:

1. Press the SENSOR ON/OFF key.



2. Press TONE.



The Model 1108 will respond: “Off” to indicate that tone dialing is off and pulse is enabled, or “On” to indicate that tone dialing is on and pulse is disabled.

3. Repeat key sequence to switch between settings.

### 4.4 Special Dialing

The Model 1108 has provisions for special dialing sequences. Special dialing sequences allow:

- Dialing that requires an access number to connect with an outside line.

- Dialing that requires the pound (#) or asterisk (\*).
- Dialing to a beeper or pager.

#### 4.4.1 Special Dialing Keys

The following designated keys represent special functions when used with PHONE NUMBER entries:

1. *Pause*



PAUSE represents a four second pause in dialing. It can be used when an access number is required before dialing to an outside line. (For example, in some cases a “9” or other number, must be dialed first, in order to get a dial tone for an outside line.) When interrogating telephone numbers, PAUSE is audibly represented by a “beep.”

2. *Pound (#)*



A pound may be required when calling some phone or beeper systems. When interrogating telephone numbers, pound (#) is audibly represented by the word “twelve.”

3. *Asterisk (\*)*



An asterisk may be required when calling some phone or beeper systems. When interrogating telephone numbers, asterisk (\*) is audibly represented by the word “eleven.”

4. *Code*



CODE instructs the Model 1108 to wait until the call is answered before continuing. When interrogating telephone numbers, CODE is audibly represented by the word “fourteen.”

### NOTE

Each time a pause, pound (#) or asterisk (\*) is incorporated in a programming sequence, it is counted as one digit toward the total of 32 digits allowed.

#### 4.4.2 Incorporating a Pause

Incorporate PAUSE to access an outside telephone line:

1. Press SET.



2. Press PHONE NUMBER.



3. Press any unassigned number key (from 1 to 8) to represent the new telephone number entry. Model 1108 will respond: “Enter number.”



4. From the number keys, enter the access digit (i.e., 9). The Model 1108 will recite the digit.



5. Press PAUSE. The Model 1108 will *beep*.



6. Enter the complete telephone number (1 + area code) using the number keys. The Model 1108 will recite the digits as they are pressed.



7. Press ENTER. The Model 1108 will respond: "Enter."



### 4.4.3 Incorporating a Pound (#) or Asterisk (\*)

Incorporate a pound or asterisk if it is normally included in telephone number:

1. Press SET.



2. Press PHONE NUMBER.



3. Press any unassigned number key (from 1 to 8) to represent the new telephone number entry. Model 1108 will respond: "Enter number."



4. Enter the telephone number using the number keys. The Model 1108 will recite the digits as they are pressed.



5. Position the pound (#) or asterisk (\*) within the telephone number where required by pressing SET (where the pound is located) or WHAT IS (where the asterisk is located). The Model 1108 will *beep* each time pound or asterisk is pressed.



–OR–



6. Enter any remaining digits of the telephone number.
7. Press ENTER. The Model 1108 will say “Enter.”



### 4.4.4 Special Dialing to a Beeper or Pager

The following example demonstrates just one solution to programming the Model 1108 for dialing to a beeper or pager. Many other key sequences will also work. Start with steps 1–3 below; next, enter special dialing keys where required for your beeper or pager service.

To incorporate a pound or asterisk:

1. Press SET.



2. Press PHONE NUMBER.



3. Press any unassigned number key (from 1 to 8) to represent the new telephone number entry.



4. Enter the complete telephone number using the number keys. The Model 1108 will recite the digits as they are pressed.



5. Press CODE. This instructs the Model 1108 to wait for the telephone call to be answered by the beeper or pager service. (A voice message will not occur—only digital tones are used.) Note that CODE may not work with beepers where there is no ring before the beeper connects. If that proves to be the case for your particular beeper, skip the CODE step and proceed from Step 4 to Step 6.



6. Now press PAUSE once to activate a four second delay. This assumes the call is answered by a beeper/pager service that immediately delivers a prerecorded voice message. PAUSE may be pressed more than once to program more time for the beeper/pager service to finish its message. Each press of PAUSE allocates four additional seconds. The Model 1108 will *beep* with each press.



## Chapter 4: Communications Programming

7. Enter a telephone number or custom code number that will identify the Model 1108 as the caller to your beeper or pager. A code may consist of any number(s) you designate. Many users find it convenient to use the telephone number to which the Model 1108 is connected.



8. A pound or asterisk may be required in some dialing situations. If required, position the pound (#) or asterisk (\*) within the telephone number where required by pressing SET (where the pound is located) or WHAT IS (where the asterisk is located). The Model 1108 will *beep* each time pound or asterisk is pressed. Enter any remaining digits of the telephone number.



–OR–



9. Press ENTER. The Model 1108 will say “Enter.”



### 4.5 Rings Until Answer

Rings Until Answer is the programmed number of times the telephone rings before the Model 1108 will answer an incoming call. This can be set from 1 to 15 rings. The default value is 4.

#### 4.5.1 Programming Rings Until Answer

To program Rings Until Answer:

1. Press SET.



2. Press RING/TAD. The Model 1108 will respond: “Enter number.”



3. Using the number keys, enter a value.



4. Press ENTER. The Model 1108 will respond: “Enter.”



## 4.5.2 Interrogating Rings Until Answer

To interrogate Rings Until Answer:

1. Press WHAT IS.



2. Press RING/TAD.



## 4.6 TAD (Telephone Answering Device)

The TAD feature is especially useful because it integrates the operation of the Model 1108 with your telephone answering device in a way that retains the full flexibility of each system. This allows you to have on-demand telephone access to the Model 1108, for obtaining a Status Report, or for issuing call-in

commands, while your telephone answering device is set to receive outside calls. Programming for use with a telephone answering device (TAD) is always used in conjunction with Rings Until Answer, detailed in section 4.5.

### NOTE

The TAD feature only applies to answering devices connected to the same telephone line as the Model 1108.

#### 4.6.1 TAD Enable/Disable

To enable/disable the TAD feature:

1. Press SENSOR ON/OFF.



2. Press RING/TAD PAUSE AM.



The Model 1108 will respond: “On.” (If the Model 1108 says “Off,” repeat steps 1 and 2 to reactivate TAD.)

#### 4.6.2 Using the TAD Feature

1. Make sure the TAD feature is *enabled* on the Model 1108. (The default setting is *disabled*, so you must enable it first.)
2. Determine the number of rings your telephone answering device uses to answer the telephone. (Most answering devices require 4 rings; others are selectable.)
3. On the Model 1108, program Rings Until Answer to a greater number than the number of rings set on your answering machine.

Example:

Telephone answering device, rings = 4

Model 1108, Rings Until Answer = 6

Using the procedure just outlined, all incoming calls will be answered by the telephone answering device, allowing it to operate normally. With the programming just accomplished, the Model 1108 can be accessed remotely, by telephone, to obtain the Status Report.

1. Dial the telephone number of the Model 1108.
2. Let the telephone ring once and then hang up.
3. Wait approximately ten seconds
4. Call the Model 1108 back.

It will answer the telephone on the first ring.

Explanation: The pattern of one ring, followed by a second call (within 30 seconds), signals the Model 1108 to answer your incoming call, excluding the telephone answering device.

#### **NOTE**

Special Case: If the Model 1108 shares the same line with a telephone answering device, and during certain time periods, frequent, incoming calls are expected on that line, then you may want to temporarily disable the TAD feature. If you leave the TAD enabled, it will not adversely affect normal operation, but if two outside telephone calls are received within the same 30-second time window, the Model 1108 will interpret this pattern as a signal to answer the telephone. If this occurs, press any key on the Model 1108 to hang up.

### **4.6.3 No TAD In Use**

If a telephone answering device is not used on the same telephone line as the Model 1108, make sure that the TAD feature is disabled, or turned off. Only Rings Until Answer programming will determine how incoming calls are answered. For example, if you program Rings Until Answer to 3, incoming calls will be answered in 3 rings.

## 4.7 Listen-in Time

The Listen-in Time is the amount of time you can listen to sounds from the Model 1108's built-in microphone at its installation site. When you call in for a Status Report, the Model 1108 announces Listen-in Time at the end of its first round of status readings, saying, "*Listen to the sound level for (programmed time entered).*" The programmable range is from 0 to 255 seconds (or up to 4.17 minutes). The default value is 15 seconds.

### NOTE

The microphone is also used to monitor high sound level. See Chapter 5, Section 5.10 through Section 5.11.1.

### 4.7.1 Programming the Listen-in Time

To program the Listen-in Time:

1. Press SET.



2. Press LISTEN TIME. The Model 1108 will respond: "*Enter seconds.*"



3. Using the number keys, enter the seconds. The Model 1108 will recite the digits as they are pressed.



4. Press ENTER. The Model 1108 will respond: "*Enter.*"



### 4.7.2 Interrogating the Listen-in Time

To interrogate the Listen-in Time:

1. Press WHAT IS.



2. Press LISTEN TIME. The Model 1108 will recite the listen time in seconds programmed.



## 4.8 Call Delay

Call Delay is the programmed length of time the Model 1108 waits, following detection of an alarm, before it begins the dial-out sequence. *This applies only to the first call.* (Delay time between calls is also programmable: refer to Intercall Time, Section 4-11.)

The purpose for Call Delay is to allow time for personnel at the Model 1108's installation site to respond to and cancel an alarm before dial-out begins. During this time, the Model 1108 will audibly repeat its "alert condition" message (unless the Local Voice Mute feature has been activated—refer to Section 4.9). The default for Call Delay is 30 seconds. Call Delay can be programmed from 0 seconds to 60 minutes (1 hour).

### 4.8.1 Programming the Call Delay

To program the Call Delay:

1. Press SET.



2. Press CALL DELAY.



The Model 1108 will respond: "Enter minutes."

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- Using the number keys, enter the minutes.  
The Model 1108 recites the digits as they are pressed.



- Press ENTER. The Model 1108 responds: “Enter seconds.”



- Using the number keys, enter the seconds.  
The Model 1108 recites the digits as you press them.



- Press ENTER. The Model 1108 responds: “Enter.”



### 4.8.2 Interrogating Call Delay

To interrogate Call Delay:

- Press WHAT IS.



- Press CALL DELAY.



The Model 1108 will recite the programmed Call Delay.

## 4.9 Local Voice Mute

When the Model 1108 dials out to report an alarm, it also audibly recites the alarm message at its installation site. The Local Voice Mute command allows you to turn off the voice at the Model 1108's site during alarm dialouts and status call-ins. This feature is used to prevent intruders or unauthorized persons from hearing the alarm dial-out message or from hearing the Status Report during an off-site call.

### 4.9.1 Enable/Disable Local Voice Mute

To enable/disable Local Voice Mute:

1. Press SENSOR ON/OFF.



2. Press MUTE.



The Model 1108 will say “*On*” to indicate that Local Voice Mute is enabled, or “*Off*” to indicate that it is disabled.

3. Repeat key sequence to switch between enabled or disabled Local Voice Mute.

## 4.10 Voice Repetitions

The Voice Repetitions feature allows programming of the number of times the alarm message is delivered *per phone call* during alarm dial-out.

The maximum repetitions may be set to 10; the default is 3 repetitions.

### 4.10.1 Programming Voice Repetitions

To program Voice Repetitions:

1. Press SET.



2. Press VOICE REPS.



The Model 1108 will respond: "Enter number."

3. Using the number keys, enter a value from 0 to 10.



4. Press ENTER. The Model 1108 will respond: "Enter."



### 4.10.2 Interrogating Voice Repetitions

To interrogate Voice Repetitions:

1. Press WHAT IS.



2. Press VOICE REPS.



The Model 1108 will recite the number programmed.

## 4.11 Intercall Time

The Intercall Time is the programmable period of time the Model 1108 waits in calling subsequent telephone numbers. Intercall Time is activated **only after alarm dial-out to the first telephone number fails to be acknowledged**. This period can be programmed from 10 seconds to 60 minutes. The default intercall time is 1 minute.

If an incoming telephone call is made to the Model 1108 during Intercall Time (in between its dialing of subsequent telephone numbers to report an alarm), it will answer the incoming call and immediately report any existing alarms. The manner in which the incoming call is answered depends upon whether or not TAD is enabled or disabled:

- If TAD (Telephone Answering Device) is enabled, Rings Until Answer will be 1.
- If TAD is disabled, Rings Until Answer will be 10.

Refer to Section 4.5, Rings Until Answer, and Section 4.6, TAD (Telephone Answering Device).

### 4.11.1 Programming Intercall Time

To program Intercall Time:

1. Press SET.



2. Press INTERCALL TIME.



The Model 1108 will respond: “Enter minutes.”

3. Using the number keys, enter the minutes.  
The Model 1108 recites the digits as you press them.



4. Press ENTER. The Model 1108 will respond: “Enter seconds.”



6. Using the number keys, enter the seconds. The Model 1108 recites the digits as you press them.



7. Press ENTER. The Model 1108 responds: “Enter.”



### 4.11.2 Interrogating Intercall Time

To interrogate Intercall Time:

1. Press WHAT IS.



2. Press INTERCALL TIME.



The Model 1108 will recite the programmed Intercall Time.

### 4.12 Maximum Number of Calls (Max Calls)

The Max Calls feature controls the total number of repeated calling attempts by the Model 1108 in the event of an alarm. When an alarm occurs, the dial-out process begins, and continues to cycle through your programmed telephone

numbers until a maximum number of calls is reached. The Max Calls setting regulates the number of calls that will be made as a result of any alarms; if more than one alarm is detected at once, or if a second alarm occurs during dial-out on the first alarm, the Max Calls setting will start the calling process from zero, until the programmed number of calling attempts are completed.

The default setting for Max Calls is 100, but it may be programmed from 0 to 255 calls. Max Calls is cancelled when an alarm is acknowledged. If the maximum number of calls is completed and no alarm acknowledgement has occurred, the Model 1108 will automatically acknowledge any alarm and stop the dial-out.

**NOTE**

If only one telephone number is programmed, the Model 1108 will dial out a maximum of 15 times to report an alarm.

**4.12.1 Programming Max Calls**

To program Max Calls:

1. Press SET.



2. Press MAX CALLS.



The Model 1108 will respond: "Enter number."

3. Using the number keys, enter a value. The Model 1108 will recite the digits as you press them.



5. Press ENTER. The Model 1108 responds: “Enter.”



### 4.12.2 Interrogating Max Calls

To interrogate Max Calls programmed:

1. Press WHAT IS.



2. Press MAX CALLS.



The Model 1108 will recite the value set for Max Calls.

### 4.13 The Clock

The Model 1108 has a built-in clock. The power-up time is 12 AM. The clock will keep time from 12 AM until you program the current time. It will then keep time from your programmed time. If the AC power fails, the clock will continue to keep time until the battery back-up fails. It will then reset to 12 AM when power is restored. *An incorrect time is a good indication that the power has failed and the batteries have been expended.*

#### 4.13.1 Setting the Clock

To set the clock:

1. Press SET.



2. Press CLOCK.



- Using the number keys, enter the correct time. The Model 1108 will recite the digits as they are pressed.



- If the time is AM, press the AM key. The Model 1108 will *beep*. (If the time is PM, there is no key to press—the clock will be automatically set to PM if AM is not set.)



- Press ENTER. The Model 1108 will respond: “Enter.”



Example: You want to set the clock to 12:45 AM. Press the following keys in the order shown:

SET...CLOCK...1...2...4...5...AM...ENTER.

### 4.13.2 Interrogating for the Current Time

To interrogate the Model 1108 for the current time:

- Press WHAT IS.



- Press CLOCK. The Model 1108 will recite the programmed time.



## 4.14 The Security Code

The Security Code is the last step after setting all other programming parameters for the Model 1108. The code consists of a 4-digit number you select and will effectively prevent unauthorized changes to the Model 1108's programming. When the Security Code is activated, all keyboard programming is inaccessible. The Model 1108 may be interrogated using the WHAT IS key, but the keyboard must be unlocked, via the Security Code, before any additional programming is possible.

### 4.14.1 Locking the Keypad

To program the Security Code:

1. Press SET.



2. Press CODE.



The Model 1108 will respond: “Enter security code.”

3. Using the number keys, enter 4 digits. The Model 1108 says “OK.” The keyboard is now locked.



If unauthorized persons attempt to set a parameter, an error message, “Error 2,” is returned. Whenever any operation except WHAT IS takes place without entering the security code first, this error message occurs.

### 4.14.2 Unlocking the Keypad

To unlock the keyboard:

1. Press WHAT IS.



2. Press CODE.



The Model 1108 will respond: “Enter Security Code.”

3. Using the number keys, enter the digits for the code.



If the correct code is entered, the Model 1108 will say “OK.” If the wrong code is entered, the Model 1108 will say “Error 2.”

# Chapter 5: Alarm Programming

This chapter explains the alarm programming and monitoring capabilities of the Model 1108, with specific instructions for the following features:

- Configure inputs as dry contact or temperature
- Enable/disable inputs
- Program alarm Recognition Time for each input
- Program high and low temperature limits
- Disable alarm response to high or low temperature
- Program temperature in Fahrenheit or Celsius scale
- Calibrate temperature
- Obtain current temperature
- Program AC power-failure Recognition Time
- Enable/disable AC power monitoring
- Program sound level sensitivity
- Program high sound Recognition Time
- Disable alarm response to high sound
- Use Exit Delay via Status Report

## 5.1 Input Configuration

In preparing the Model 1108 to sense an alert condition, the inputs must be configured as dry contact (either open or closed) or as temperature inputs. The default setting for input 1 is temperature; for inputs 2-8, the default is dry contact and open. To configure input normality, sensors are first wired to the terminal strip at the back of the unit. (Refer to Chapter 2, Section 2.9–2.12, for an explanation on wiring inputs.)

The configuration process directs the Model 1108 to initialize the 8 inputs and establish normal settings. Any change in the status of an input (for example, from a normally open contact to a suddenly closed contact) is recognized as an ***alert condition***. In the case of a temperature input, an alert condition is recognized when established temperature limits are exceeded.

**NOTE**

Before starting keyboard commands to configure input normality on the Model 1108, *it is very important to check that the sensors you have wired to the unit are set in their normal, non-alarm positions.* For example, if a magnetic reed switch (a normally-closed sensor used to detect unauthorized entry) has been wired to the Model 1108, make sure that the door or window to be monitored is shut before configuring the input. If a motion-detector is wired to the unit, it is advisable to block all sources of motion from the sensor before and during configuration.

**5.1.1 Programming Input Configuration**

1. Press STANDBY to place the Model 1108 in Standby mode.



2. Wire sensors to the inputs to the back of the Model 1108 (see Chapter 2, Section 2.10).
3. Press RUN. The red light glows when the Model 1108 returns to Run mode.



4. Press SET.



5. Press CONFIGURE.



6. The Model 1108 audibly recites the configuration for each of the eight inputs:
  - If the input is normally open, the Model 1108 recites the number of the input and says “OK.”
  - If the input is normally closed, the Model 1108 recites the number of the input, followed by a *beep* and “OK.”
  - If the input is configured as temperature, the Model 1108 recites the number of the input, followed by “*Temperature.*”

### 5.1.2 Verifying Input Configuration

Input configuration can be verified when interrogating the Model 1108 for a complete Status Report. Refer to Chapter 6 for a more detailed description of the Status Report.

## 5.2 Enable/Disable Inputs

This function allows you to enable or disable an input’s response to an alert condition. An enabled input will respond to an alert condition and allow dial-out. A disabled input will cause dial-out to be suppressed, but any existing alert conditions will be revealed during the Status Report. Enable/disable programming is useful during wiring of inputs (see Chapter 2) or when a condition needs to be monitored, but is not critical enough to be programmed for dial-out reporting. It is important to verify input status after performing any task that requires disabling. The default setting for all inputs is enabled (ON). If an alert condition exists when inputs are re-enabled, Recognition Time will restart—refer to Section 5.3.

## 5.2.1 Changing Enabled/Disabled Input Status

1. Press SENSOR ON/OFF.



2. Press the number (1 to 8) of the selected input to enable/disable. The Model 1108 says “Off” to indicate disabled or “On” to indicate enabled.



## 5.2.2 Verifying Enabled/Disabled Input Status

1. Press WHAT IS.



2. Press STATUS.



The Model 1108 audibly recites the current status of every input. In a Status Report, each input is first identified by its input number, followed by a report that specifies parameters currently affecting that input. ***If an input is disabled, the word “Off” immediately follows the number recited for that input.***

For example, input 3 is configured as a normally open, dry contact input. During the Status Report:

- ***If disabled***, the Model 1108 recites:  
“Number 3—***Off***—OK,” for input 3.
- ***If enabled***, the Model 1108 recites:  
“Number 3—OK,” for input 3.

In another example, input 5 is configured as a temperature input. The current temperature is 76 degrees. During a Status Report:

- **If disabled**, the Model 1108 recites “Number 5—Off—76 degrees—OK.”
- **If enabled**, the Model 1108 recites “Number 5—76 degrees—OK.”

### 5.3 Input Recognition Time

The Input Recognition Time is the length of time an alert condition must be present before a valid alarm exists and dial-out is activated. This time period is programmable, from 0 minutes, 0 seconds (for immediate response) up to a period of 272 minutes, 0 seconds. If an alert condition begins and then clears within the established Recognition Time, no dial-out will occur. When an alert condition continues beyond the programmed Recognition Time, the Model 1108 initiates dial-out. The default setting for Input Recognition Time is 0 minutes, 3 seconds.

#### 5.3.1 Programming Input Recognition Time

1. Press SET.



2. Press RECOGNITION TIME.



3. Press the number (1 to 8) of the selected input to be programmed.



The Model 1108 responds: “Enter minutes.”

- Using the number keys, enter the minutes. For example, to set a Recognition Time of five minutes, simply press “5” on the keypad. The Model 1108 recites the digits as they are pressed.



- Press ENTER. The Model 1108 responds: “Enter seconds.”



- Using the number keys, enter the seconds. The Model 1108 recites the digits as they are pressed.



- Press ENTER. The Model 1108 responds: “Enter.”



### 5.3.2 Interrogating Input Recognition Time

- Press WHAT IS.



- Press RECOGNITION TIME.



3. Press the corresponding input key (1 to 8).



The Model 1108 recites the programmed Recognition Time for that input.

## 5.4 Establishing High and Low Temperature Limits

High and low temperature limits can be separately programmed for each input configured as temperature. Limits can range from

-20° to +150° Fahrenheit, or from -30° to 65° Celsius.

When temperature limits exceed high or low settings, the Model 1108 will dial out with an alarm message. Default settings are: 10° F for low temperature and 100° F for high temperature.

### 5.4.1 Programming Temperature Limits for a Selected Input

1. Press SET.



2. Press TEMP LIMITS.



3. From the number keys, press a number (from 1 to 8) that corresponds to the temperature input being programmed.



The Model 1108 responds: “Enter low temperature limit.”

- Using the number keys, enter a value for low temperature limit. The Model 1108 will recite the digits as they are pressed. If a negative number is required, first press PAUSE, then enter the number.



- Press ENTER.



The Model 1108 responds: “Enter high temperature limit.”

- Using the number keys, enter the value for high temperature limit. The Model 1108 recites the digits as they are pressed.



- Press ENTER. The Model 1108 responds: “Enter.”



## NOTE

Do not set temperature limits too close to normal room temperature. Minor temperature fluctuations could result in frequent and unnecessary alarm dialouts.

### 5.4.2 Disabling Alarm Response to High or Low Temperature

To disable alarm response to either high or low temperature settings exclusively, enter the maximum temperature limit when programming the selected input. (The Model 1108 will

not respond to temperatures encountered at maximum settings or beyond.) Begin by following the key sequence shown in Section 5.4.1, and when prompted to enter the high or low temperature value:

- Set high temperature to either +150° F or +65° C (high temperature limit) to prevent the Model 1108 from responding to a high temperature alarm.
- Set low temperature to either -20° F or -30° C to prevent the Model 1108 from responding to a low temperature alarm.

### 5.4.3 Interrogating High and Low Temperature Limits

1. Press WHAT IS.



2. Press TEMP LIMITS.



3. Press the number key corresponding to the selected temperature input.



## 5.5 Temperature Scale

Temperature inputs may be set in either Fahrenheit or Celsius degrees. The default temperature scale is Fahrenheit. To change to Celsius:

1. Press SENSOR ON/OFF.



2. Press TEMP. The Model 1108 responds: “Off,” indicating Celsius scale has replaced Fahrenheit scale.



3. To return to Fahrenheit scale, repeat the key sequence. The Model 1108 responds: “On,” indicating Fahrenheit scale is in effect.

### NOTE

When switching from Fahrenheit to Celsius, or vice versa, the change applies to all inputs configured to read temperature. When switching temperature scales it is important to reset high and low temperature limits on all temperature inputs. Refer to Section 5.4.1 to reset temperature limits.

## 5.6 Temperature Calibration

To compensate for minor variances in sensor accuracy, an offset may be programmed for each temperature input. The amount of offset is measured in degrees Fahrenheit or degrees Celsius. Adjustments are possible within a range from -10 degrees to +10 degrees. For example, if input 3 is sensing temperature and is reading 1 degree too high, then the calibration for input 3 is set at -1 to obtain an accurate reading.

### 5.6.1 Programming Temperature Calibration

1. Press SET.



2. Press CALIBRATE.



3. Press the number (1 to 8) of the selected temperature input to be calibrated.



4. Enter the number required to offset the current temperature reading so a correct reading is obtained.



- To program a positive offset number (up to +10 degrees), enter the number on the keypad. The Model 1108 recites the digits as they are pressed.
  - To program a negative offset number (up to -10 degrees), first press PAUSE. The unit responds with a “beep.” Next, enter the number on the keypad. The unit recites the digits as they are pressed.
5. Press ENTER. The Model 1108 responds: “Enter.”



**NOTE**

If you find that your calibration offset exceeds more than + 5 or - 5 degrees, other complicating factors could be affecting normal operation of the Model 1108. Call Phonetics for technical assistance.

## 5.6.2 Interrogating Temperature Calibration

1. Press WHAT IS.



2. Press CALIBRATE.



3. Press the number key corresponding to the selected temperature input.



If a “beep” precedes the number as it is recited, then a **negative** offset is indicated.

## 5.7 Obtaining Current Temperature

Current temperature readings for each temperature input may be accessed at any time. The Model 1108 recites the input number, and the actual temperature detected by the attached sensor, for all inputs configured as temperature. To obtain current temperature:

1. Press WHAT IS.



2. Press TEMP.



## 5.8 AC Power Monitoring Enable/Disable

The Model 1108 monitors AC power failure. This command enables or disables the power failure detection feature. When enabled, the Model 1108 will monitor power and dial out when AC power failure exceeds a programmable span of time (refer to AC Power Failure Recognition Time, Section 5.9).

The default setting for AC power monitoring is enabled (on). When disabled, the Model 1108 will not dial-out to report power failure.

### 5.8.1 Enabling/Disabling the AC Power Alarm

1. Press SENSOR ON/OFF.



2. Press POWER.



- The Model 1108 will say “Off” to indicate that the power alarm is disabled, or
  - The Model 1108 will say “On” to indicate that the power alarm is enabled.
3. Repeat key sequence to change settings.

## 5.9 AC Power Failure Recognition Time

The AC Power Failure Recognition Time is the length of time that AC electric power is off before a valid alarm is recognized and dial-out begins. The default setting is 5 minutes, 0 seconds, but is programmable from 0 seconds to a maximum of 272 minutes.

When AC power failure occurs, and throughout the programmed Recognition Time, the Model 1108 steadily repeats the message “*the electricity is off*” at the unit’s installation site. There is no Call Delay programming available for AC power failure. Immediately following Recognition Time, the Model 1108 begins the dial-out process to report power failure.

To cancel the power-failure message locally at the keypad (during or after Recognition Time) press any key on the Model 1108 keypad. This action also cancels the dial-out process. The AC power failure alarm may also be cancelled remotely, by telephone acknowledgment (see Chapter 6, Section 6.1).

### 5.9.1 Programming Power Failure Recognition Time

1. Press SET.



2. Press RECOGNITION TIME.



3. Press POWER. The Model 1108 responds: *“Enter minutes.”*



4. Using the number keys, enter the number of minutes. The Model 1108 will recite the digits as they are pressed.



5. Press ENTER. The Model 1108 responds: *“Enter seconds.”*



- Using the number keys, enter the number of seconds. The Model 1108 will recite the digits as they are pressed.



- Press ENTER. The Model 1108 responds: “OK.”



### 5.9.2 Interrogating Power Failure Recognition Time

- Press WHAT IS.



- Press RECOGNITION TIME.



- Press POWER.

The Model 1108 will recite the power Recognition Time.



## 5.10 Sound Alarm Monitoring

This feature allows you to program the level and duration of sound that will cause the Model 1108 to respond to an alarm and dial-out. It may be useful to desensitize the Model 1108 to sound if it is installed in an area with a relatively high noise level, or where a loud noise occurs frequently but is not associated with an alarm. In some applications, it may be desirable to increase sound sensitivity to low sound levels.

### 5.10.1 Programming Sound Alarm Sensitivity

The sensitivity setting for sound alarm monitoring ranges from 1 to 255. A value of 1 makes the microphone the MOST sensitive to changes in sound. The value 255 makes the microphone the LEAST sensitive to sound. The default value is 32.

1. Press SET.



2. Press CALIBRATE.



3. Press SOUND. The Model 1108 responds: "Enter number."



4. Using the number keys, enter a value for sound sensitivity. The Model 1108 recites the digits as you press them.



5. Press ENTER. The Model 1108 responds: "Enter."



### 5.10.2 Interrogating Sound Sensitivity

1. Press WHAT IS.



2. Press CALIBRATE.



3. Press SOUND. The Model 1108 recites the programmed sound sensitivity level.



### 5.10.3 Programming High Sound Alarm Recognition Time

The Recognition Time for sound alarm monitoring ranges from 2 seconds to 59 seconds. The default value is 8 seconds.

1. Press SET.



2. Press RECOGNITION TIME.



3. Press SOUND. The Model 1108 responds: “Enter seconds.”



4. Using the number keys, enter the number of seconds. The Model 1108 will recite the digits as they are pressed.



5. Press ENTER.



## 5.11 High Sound Alarm Enable/Disable

The Model 1108 monitors sound through the built-in microphone. When the sound level suddenly exceeds the programmed high sound limit, the Model 1108 will respond to an alert condition. The increased sound level must continue throughout the programmed recognition time. The default for high sound alarm is enabled (on).

### NOTE

The microphone is also used for listening to on-site sounds. Refer to Chapter 4, Section 4.7. Disabling the sound alarm does not affect listen-in capability.

### 5.11.1 Changing Enabled/Disabled High Sound Alarm

1. Press SENSOR ON/OFF.



2. Press SOUND. The Model 1108 will say "Off" to indicate disabled or "On" to indicate enabled.



3. Repeat key sequence to change settings.

## 5.12 Exit Delay

When tripping an alarm is unavoidable, yet a true alert condition has not actually occurred, the alarm response, including dial-out, can be temporarily suppressed.

The Model 1108 is able to suppress and then reset its dial-out function automatically through use of the Status Report. This is especially convenient when an alert condition is created upon exiting a monitored door and there is no way to cancel from the local keypad.

**Example:** You are planning to exit through a monitored door. Prior to exiting, you initiate a Status Report recitation at the Model 1108 keypad by pressing WHAT IS, followed by STATUS, (key sequence shown below). You have approximately 30 seconds to exit without activating the Model 1108's programmed alarm response. At the conclusion of the Status Report, normal alarm response is reactivated.

To use exit delay, initiate the Status Report.

1. Press WHAT IS.



2. Press STATUS. The Model 1108 recites the full Status Report; during this time, you are able to exit the monitored area without tripping an alarm.





# Chapter 6: Acknowledgment, Status Report, and Remote Access

In addition to communication and alarm monitoring capabilities, the Model 1108 will also respond to your instructions and provide you with access to information on monitored conditions at all times.

By issuing commands to the unit, either at the installation site or over standard telephone lines, the following features may be activated:

- Acknowledgment of existing alarms
- The Status Report on all monitored conditions.

## 6.1 Alarm Acknowledgment

When the Model 1108 dials out with an alarm message, it will request acknowledgment before hanging up. Acknowledgment indicates to the unit that the alarm message has been received. Upon acknowledgment, the Model 1108 will cancel the dial-out sequence.

There are three ways\* that an alarm is acknowledged directly:

- Local Acknowledgment
- Touch-Tone™ Acknowledgment
- Callback Acknowledgment

\* A fourth method of alarm acknowledgment is indirect. Refer to Max Calls, Chapter 4, Section 4.12 for an example of automatic alarm acknowledgment.

### 6.1.1 Local Acknowledgment

To acknowledge an alarm locally (directly at the installation site of the Model 1108), press any key.

### 6.1.2 Touch-Tone™ Acknowledgment

This method of remote alarm acknowledgment works with a Touch-Tone™ telephone.

Example: You receive a call from the Model 1108, reporting that an alarm exists. The message concludes: "Indicate you have received warning message." Now, or at any time during this call, you may acknowledge the alarm with the code "555" if you are using a Touch-Tone™ telephone.

- To enter "555," press the number (5) key on the Touch-Tone™ phone keypad three times. The Model 1108 will respond: \* ***"Warning message received by telephone number (last number dialed)."*** The Model 1108 will hang up and the dial-out sequence, including any further response to the alarm, will be cancelled.
- If you enter the wrong code or do not enter it within 10 seconds following the conclusion of the message, the Model 1108 will respond: ***"Dial telephone number (the programmed unit phone number) within (Intercall Time)."*** Then, the Model 1108 will hang up. The alarm is still not acknowledged until you call back. You have a period equal to the programmed Intercall Time to call the unit back in order to acknowledge the alarm. Refer to Callback Acknowledgment, Section 6.1.3, below.

### **6.1.3 Callback Acknowledgment**

This method of remote alarm acknowledgment works with *any telephone*: pulse, rotary, or Touch-Tone™.

Example: The Model 1108 calls you with an alarm message. You answer the call with a rotary or pulse telephone, and do the following:

- You listen to the message and hang up.
- Then you call the Model 1108 back on any telephone. You must wait for 10 rings—this signals the Model 1108 to answer your telephone call. (Make sure to call back within the programmed setting for Intercall Time—refer to Chapter 4, Section 4.11.)

When the Model 1108 answers your return call, it gives a Status Report (refer to Section 6.2). Then it says: "*Warning message received by ...*" and recites the telephone number last dialed. This indicates that the alarm has been acknowledged.

**NOTE**

If you have the TAD feature ( telephone answering device) enabled, the Model 1108 will answer the telephone on the first ring. If it is disabled, the telephone must be allowed to ring 10 times. This serves as a precaution against a random alarm acknowledgment. Refer to Chapter 4, Section 4.6, for complete information on using the TAD feature.

**6.2 Status Report**

The Status Report allows access to complete information on all monitored conditions either locally, from the keypad, or by telephone, from any location. The Model 1108 will answer an incoming telephone call following the programmed Rings Until Answer (refer to Chapter 4, Section 4.5). Included with the Status Report are messages related to alarm conditions, AC power, battery backup and sound level. It also provides an opportunity for listening to on-site sounds (refer to Listen-in Time, Chapter 4, Section 4.7).

To initiate the Status Report:

1. Press WHAT IS.



2. Press STATUS.



Sections 6.2.1, 6.2.2, and 6.2.3 demonstrate two different Status Report recitations. The Status Report starts with:

*“Hello. This is telephone number 555-1234 (or the programmed ID).”*

*“The time is 12:15 PM (or the current time).”*

The Model 1108 proceeds with a separate report for each input. Each input identifies itself by reciting the input number.

## **6.2.1 Example: Status Report, No Alarms**

Inputs 2, 3, 4, and 6 are configured as dry contact and inputs 1, 5, 7 and 8 are configured as temperature. No alarms exist. The Status Report begins by saying, *"Hello, this is telephone number 555-1234; the time is 12:15 PM."* Following this introduction, the report continues:

*"Number 1, 74 degrees, OK."*

*"Number 2, OK."*

*"Number 3, OK."*

*"Number 4, OK."*

*"Number 5, 76 degrees, OK."*

*"Number 6, OK."*

*"Number 7, 86 degrees, OK."*

*"Number 8, 70 degrees, OK."*

*"The electricity is ON."* This refers to AC power.

*"Battery condition, OK."* Other responses: *"Battery condition low"* or *"Replace batteries."* (Refer to Section 6.2.4 for additional information regarding battery condition.)

*"Sound level, OK."*

*"Listen to the sound level for 10 seconds."* In this case, the programmed Listen-in Time is set at 10 seconds. (This feature is not available when obtaining the Status Report on-site, directly at the keypad.)

The Status Report repeats once more and the Model 1108 concludes the call, saying: *"Have a good day."* (The Status Report will not repeat if obtained at the keypad; *"Have a good day,"* is also not recited.)

The phrase *"no number"* at the end of a Status Report indicates that no dial-out phone numbers have been programmed.

## **6.2.2 Example: Status Report, Existing Alarms**

Inputs 2, 3, 4, and 6 are configured as dry contact and inputs 1, 5, 7 and 8 are configured as temperature. An emergency situation is at hand: a fire in a greenhouse has tripped a smoke alarm and electrical power has been disrupted. In addition to high sound and AC power alarms, separate alarms exist on inputs 5, 6, 7, and 8. You happen to call in for the Status Report, which begins with, *“Hello, this is telephone number 555-1234; the time is 12:15 PM.”* Following this introduction, the report continues:

*“Number 1, 74 degrees, OK.”*

*“Number 2, OK.”*

*“Number 3, OK.”*

*“Number 4, OK.”*

*“Number 5, 105 degrees, HIGH.”*

*“Number 6, EXISTS.”*

*“Number 7, 110 degrees, HIGH.”*

*“Number 8, 98 degrees, HIGH.”*

*“The electricity is OFF.”*

*“Battery condition, OK.”*

*“Sound level, HIGH.”*

*“Listen to the sound level for 10 seconds.”*

*“Warning message received by ...(last telephone number dialed\*).”*

The Status Report repeats once more and the Model 1108 concludes the call, saying: *“Have a good day.”*

\* The “last telephone number dialed” refers to any one of the programmed, dial-out telephone numbers through which the Model 1108 was able to receive alarm acknowledgment, prior to your call for a Status Report; this could also refer to the Model 1108’s I.D. Number, if the alarms are acknowledged at the keypad by someone present at the site.

### **6.2.3 Example: Status Report, Disabled Inputs**

If an input is *disabled*, the dial-out feature for that input is deactivated, but all other programmed parameters remain in effect. In the example below, all 8 inputs are disabled, although inputs 5 and 6 are detecting alarms. AC power and Sound Level are also disabled for dial-out. (Note that to indicate disabled status, only AC power will return two audible *beeps*, rather than the word, "OFF.") When you call the Model 1108 for a Status Report, you hear the following:

*"Hello, this is telephone number 555-1234.*

*"The time is 12:15 PM."*

*"Number 1, OFF, OK."*

*"Number 2, OFF, 74 degrees, OK."*

*"Number 3, OFF, OK."*

*"Number 4, OFF, OK."*

*"Number 5, OFF, 96 degrees, HIGH."*

*"Number 6, OFF, EXISTS."*

*"Number 7, OFF, 86 degrees, OK."*

*"Number 8, OFF, 70 degrees, OK."*

*"The electricity is (beep, beep), ON."* If the electricity is off, or the AC adaptor is disconnected, you will hear:

*"The electricity is (beep, beep), OFF."*

*"Battery condition, OK."*

*"Sound level, OFF, OK."* If the sound level is high you will hear: *"Sound level, OFF, HIGH."*

*"Listen to the sound level for 10 seconds."*

The Status Report repeats once more and the Model 1108 concludes the call, saying: *"Have a good day."*

### **6.2.4 Battery Condition**

During a Status Report, you may hear one of three possible messages regarding battery power. The Model 1108 determines the appropriate message by measuring battery voltage. Depending upon the remaining voltage, it may respond:

- “*Battery Condition , OK,*” if over 8.2 Volts.
- “*Battery Condition , low,*” if between 7.2 and 8.2 Volts.
- “*Replace batteries,*” if below 7.2 Volts.

### **6.2.5 Remote Access by Touch-Tone™ Telephone**

Calling the Model 1108 for a Status Report provides the opportunity to access other functions, using Touch Tone™ push-button commands. Remote telephone commands include:

- Disabling/enabling any input.
- Disabling/enabling High Sound Alarm monitoring.
- Disabling/enabling AC Power monitoring.
- Activation of Listen-In Time.
- Activation of the Status Report.

To issue commands by telephone, first dial the number of the Model 1108 to access the Status Report. The Status Report will be followed by the programmed Listen-In Time. If you remain on the telephone, the Status Report will be repeated, followed by a 10 second waiting period and hang-up. During this 10 second waiting period, or ***at any time during the call, other commands may be accessed by pressing any push button on the telephone.***

If a Security Code is in effect, the Model 1108 will prompt you with: “*Enter Security Code.*” If no Security Code is set, then it will say “*O.K.*”

- Enter your Security Code (4 digits) with the telephone push buttons. If the code you enter is correct, the Model 1108 will respond: “*OK.*”
- If you enter the wrong Security Code, the Model 1108 says, “*Error. Have a good day,*” and hangs up.

**Disabling/enabling inputs** – If an input is set to detect an alert condition, it can be disabled to prevent the Model 1108 from dialing out, or re-enabled at any time.

This feature allows the convenience of disabling an input, even if you are away from the site of the Model 1108. One such application may involve an input programmed to detect unauthorized entry. You are in another locale, but must allow someone else temporary access to the area monitored by the Model 1108. Using a Touch-Tone™ telephone, you can disable the appropriate input (thereby disabling any alarm dial-out response). The input remains disabled until you issue the same command, which effectively returns it to its former, enabled state.

Press the following push-buttons on the Touch-Tone™ telephone to execute the desired command:

**\*(asterisk), 1**

...equal to Sensor On/Off, for input 1. To re-enable the input, repeat the same Touch-Tone™ button sequence used for disabling.

**\*(asterisk), 2**

...equal to Sensor On/Off for input 2, and so on, for inputs up to 8. To re-enable the input, repeat the same Touch-Tone™ button sequence used for disabling.

**Disabling/enabling High Sound Monitoring –**

**\*(asterisk), 9**

...equal to SENSOR ON/OFF for High Sound Alarm monitoring. To re-enable High Sound Alarm, repeat the command.

**Disabling/enabling AC Power –**

**\*(asterisk), 0**

...equal to Sensor On/Off for AC Power monitoring. To re-enable AC Power monitoring, repeat the command.

## ***Chapter 6: Acknowledgment, Status Report, and Remote Access***

### ***Activating Listen-In Time –***

**#(pound), 1**

...initiates Listen-In Time for listening to on-site sounds for the programmed time available.

### ***Activating Status Report –***

**#(pound), 2**

...initiates a full recitation of the Status Report.

### ***Exiting –***

**#(pound), #(pound)**

...forces exit. The 1108 says, “*Have a good day,*” and hangs up.



## **Chapter 7: Operation**

After installation and programming is completed, the Model 1108 is fully operational. This chapter explains the sequence of events that occur during an alarm dialout to illustrate how the Model 1108 operates.

### **7.1 Alarm Detection, Dial-out and Acknowledgment**

Generally, an alarm event is structured in the following manner:

- I. The Model 1108 detects an alert condition due to a change at the sensor.
- II. A valid alarm is recognized.
- III. Dial-out begins.
- IV. The alarm is acknowledged.

Often, an alarm does not proceed through all stages: either an alert condition does not persist long enough to be considered valid, or a valid alarm is cancelled.

The table on the following page explains the alarm detection, dial-out and acknowledgment features and lists important variable factors affecting their operation.

I. Model 1108 Detects a Change at the Sensor	Variable Factors
<ul style="list-style-type: none"> <li>• Model 1108 detects a change in the monitored condition (from the sensor wired to one of the inputs). This is considered an <i>alert condition</i>, and does not qualify as a valid alarm at this point.</li> <li>• The condition continues throughout the programmed Recognition Time. If the condition (or sensor) reverts to its normal state before the Recognition Time is reached, no alarm will occur.</li> </ul>	<p><i>Input Type: (1) An open circuit closes, (2) a closed circuit opens, or (3) temperature limits are exceeded.</i></p> <p><i>Recognition Time: Activated</i></p>
II. A Valid Alarm Is Recognized	Variable Factors
<ul style="list-style-type: none"> <li>• The condition must persist long enough to meet or exceed the programmed Recognition Time. When Recognition Time has expired, but the alert condition continues, the Model 1108 will determine that a valid alarm exists.</li> <li>• When a valid alarm is determined, Call Delay is activated, forcing the Model 1108 to wait for a programmed period of time before starting the dial-out process. Call Delay applies to the period just prior to dial-out, before the first telephone call is made.</li> <li>• Call Delay provides the opportunity to cancel a valid alarm at the Model 1108's installation site, before dial-out occurs. An audible voice message indicates which of the inputs is in alarm. If on-site personnel acknowledge the alarm within the Call Delay time, the Model 1108 will not dial out. (Local Voice Mute is disabled, so that alarm messages can be heard at the site.)</li> </ul>	<p><i>Recognition Time: Expired</i></p> <p><i>Valid Alarm: Exists</i></p> <p><i>Call Delay: Activated</i></p> <p><i>Alarm Message: Audible, On-site Activated</i></p> <p><i>Local Voice Mute: Disabled</i></p>

III. Dial-out Begins	Variable Factors
<ul style="list-style-type: none"> <li>• The dial-out process is activated as soon as the Call Delay time expires (if the alarm has not been cancelled at the Model 1108's installation site.) The dial-out begins with telephone number 1 and proceeds sequentially, through the remaining telephone numbers.</li> </ul>	<p><i>Call Delay: Expired</i></p>
<ul style="list-style-type: none"> <li>• If the alarm is not acknowledged with the first dial-out telephone call, the Model 1108 waits the duration of Intercall Time before dialing the next telephone number. Intercall Time is the programmed waiting period in between each dial-out telephone call.</li> </ul>	<p><i>Intercall Time: Activated</i></p>
<ul style="list-style-type: none"> <li>• When the telephone is answered, the programmed Voice Repetitions determine the number of times per call the Model 1108 recites the alarm message.</li> </ul>	<p><i>Voice Repetitions: Activated</i></p>
<ul style="list-style-type: none"> <li>• Call Progress, an automatic feature, enables the Model 1108 to detect whether or not the telephone call is answered. After 8 rings, or if a busy signal is encountered, the Model 1108 will hang up, wait the programmed Intercall Time, and proceed to dial the next telephone number.</li> </ul>	<p><i>Call Progress: Activated</i></p>
<ul style="list-style-type: none"> <li>• If no telephone calls are answered, the Model 1108 dials out sequentially, through the remaining telephone numbers and continues to cycle until the programmed Maximum Number of Calls is reached.</li> </ul>	<p><i>Max Calls: Activated</i></p>
<ul style="list-style-type: none"> <li>• When the telephone is answered, the Model 1108 will immediately begin reciting a message that indicates which of the inputs is in alarm. At the same time, the alarm message is repeating at the Model 1108's installation site. The Model 1108 will request acknowledgment, if it has not yet occurred.</li> </ul>	<p><i>Alarm Messages: By Telephone and On-site</i></p>

IV. The Alarm is Acknowledged	Variable Factors
<ul style="list-style-type: none"> <li>• At any time after a valid alarm is determined, the alarm may be acknowledged at the Model 1108's installation site, by pressing any key.</li> <li>• When the Model 1108 dials out and the call is answered via Touch-Tone telephone, any alarm may be instantly acknowledged by pressing "555."</li> <li>• If the alarm message repeats for the number of programmed Voice Repetitions, and "555" has not been entered, the Model 1108 will say:   <i>"Indicate that you have received warning message."</i>                       The Model 1108 waits 10 seconds for the Touch-Tone code "555" to be entered. If the code is entered within 10 seconds, it responds:   <i>"Warning message received by telephone number...(the Unit ID Number)."</i>                       The alarm is considered acknowledged and the dialout concludes.</li> <li>• If the Model 1108 does not receive the Touch-Tone code within 10 seconds, it recites the following and then hangs up:   <i>"Dial telephone number (gives the Unit ID Number) within...(the programmed Intercall Time.)"</i>                       The recipient of this message must call the Model 1108 back within the period programmed for Intercall Time, in order to acknowledge the alarm. If Local Voice Mute is off, the unit will beep at the installation site while waiting for this call.</li> <li>• Callback: The Model 1108 waits 10 rings before answering to guard against random acknowledgment. If an answering device is connected to the</li> </ul>	<p><i>Local, On-site Acknowledgment</i></p> <p><i>Touch-Tone Acknowledgment: Fast Code 555</i></p> <p><i>Touch-Tone Acknowledgment: Normal Code 555</i></p> <p><i>Tone or Pulse Callback Acknowledgment: Within Intercall Time</i></p>



## **7.2 Example: A Dial-out Telephone Call**

The following parameters are selected for demonstration purposes:

- Model 1108 Unit ID Number is set to 555-5674.  
It is currently installed at your place of business.
- Dial-out Telephone Number 1 is programmed to 555-1234, your home telephone number.
- Voice Repetitions are set to 4.

The Model 1108 is detecting an alarm on input 2.

The telephone rings at 555-1234, your home number.

You answer the telephone and hear the following message:

*"Hello, this is telephone number 555-5674. The time is 8.30 p.m.  
Alert condition two exists."*

*(4-seconds to hear on-site sound from unit's microphone.)*

*"Hello, this is telephone number 555-5674. The time is 8.30 p.m.  
Alert condition two exists."*

*(4-seconds to hear on-site sound from unit's microphone.)*

*"Hello, this is telephone number 555-5674. The time is 8.30 p.m.  
Alert condition two exists."*

*(4-seconds to hear on-site sound from unit's microphone.)*

*"Hello, this is telephone number 555-5674. The time is 8.30 p.m.  
Alert condition two exists."*

*(4-seconds to hear on-site sound from unit's microphone.)*

*"Indicate you have received warning message."*

### **NOTE**

It is important that your dial-out telephone numbers be answered by you or other authorized personnel in order to ensure adequate response to an alarm.

# Appendix A: Troubleshooting

In the event that a problem is encountered, this section will assist you in determining the cause, so you can return the unit to its usual monitoring routine with minimal interruption.

Most problems with the Model 1108 are easy to identify and quickly corrected, and are found under the following general headings:

- Communications/dial-out functions
- Temperature monitoring
- Sound level monitoring
- Other monitoring functions

If you have tried the solutions outlined in this section and are not satisfied with the results, call Customer Service, (610) 558-2700, or follow the guidelines for shipping the Model 1108 to Phonetics for repair (see Appendix C).

## Communications / Dial-out:

### Problem

1. The Model 1108 fails to dial out.

### Cause

- a) The telephone number may be incorrectly programmed.
- b) Tone or pulse (the current dialing method) is not compatible with the telephone line on which the Model 1108 is installed.
- c) Recognition Time is too long. An alert condition does not remain in effect long enough to become a valid alarm.
- d) Max Calls is set to zero.

### Solution

- Recheck programming steps, Refer to Chapter 4, Section 4.2.1.
- Switch from the current setting: from tone to pulse, or from pulse to tone. Refer to Chapter 4, Section 4.3.
- Reprogram Recognition Time. Set the Recognition Time to the minimum duration required to create a valid alarm. If possible, test the new setting by deliberately creating an alert condition. Refer to Chapter 5, Section 5.3.
- Reprogram Max Calls. It is a good idea to set your Max Calls to at least equal the number of dial-out telephone numbers programmed. Refer to Chapter 4, Section 4.12.1.

	<p>e) The Model 1108 is connected to an incompatible telephone line.</p> <p>The Model 1108 must be connected to a standard (2-wire analog) telephone line, <i>not a digital extension</i> to a phone system. If the unit will not dial out and the factors previously listed have been ruled out, try connecting the unit to a standard residential telephone line.</p>
<p>2. The Model 1108 will not answer the telephone when called for a Status Report or alarm acknowledgment.</p>	<p>a) Rings Until Answer is incorrectly programmed.</p> <p>Recheck programming of Rings Until Answer. Refer to Chapter 4, Section 4.5.1.</p> <p>b) The Model 1108 is connected to an incompatible telephone line.</p> <p>Some telephone systems will not allow the telephone to ring beyond 4 rings. If your Model 1108's Rings Until Answer is set at more than 4 rings, you may not be able to access the unit. Try setting the Rings Until Answer to less than 4 rings. If this does not correct the problem, it may indicate telephone line incompatibility. In this case, try connecting the Model 1108 to a standard, residential telephone line.</p>

**Communications / Dial-out:**

<b>Problem</b>	<b>Cause</b>	<b>Solution</b>
<p>(Continued from previous page)</p> <p>3. The Model 1108 will not answer the telephone for Callback Acknowledgement.</p>	<p>You did not allow the telephone to ring 10 times. <b>Note:</b> If the TAD (telephone answering device) is disabled, the telephone rings ten times before the Model 1108 answers. If the TAD is enabled, the telephone rings once before the Model 1108 answers the call.</p>	<p>When calling the Model 1108, and the TAD is disabled, allow the telephone to ring 10 times. Refer to Chapter 6, Section 6.1.3, and Chapter 4, Section 4.6.3.</p>
<p>4. The Model 1108 recites the alarm message or Status Report over the telephone, but is silent at the installation site.</p>	<p>The local voice mute feature is in effect.</p>	<p>Deactivate local voice mute. Refer to the programming steps in Chapter 4, Section 4.9.</p>
<p>5. The Model 1108 dials out correctly but fails to audibly recite its alarm message when you answer the call.</p>	<p>Voice Reps is set to zero.</p>	<p>Reprogram Voice Reps to 1 or greater. Refer to Chapter 4, Section 4.10.</p>
<p>6. The Model 1108 and telephone answering device (sharing the same line) answer incoming calls simultaneously.</p>	<p>The Model 1108's number of Rings Until Answer is set to equal the number of rings set for the telephone answering device.</p>	<p>Change the number of Rings Until Answer for the Model 1108. Refer to Chapter 4, Section 4.5.</p>

<b>Temperature Monitoring: Problem</b>	<b>Cause</b>	<b>Solution</b>
1. Can't program temperature limits; or the unit won't read the temperature sensor.	The input isn't configured to read a temperature sensor.	Press SET and CONFIGURE to program the input. (See Section 5.1.1 for more information on configuring inputs.)
2. The temperature reading is -20° F or -30° C.	The temperature sensor has been disconnected or has broken wires.	Examine the wires to temperature sensor and connect or replace wiring.
3. Temperature reads 150° F or 65° C.	Temperature sensor wires are touching or have shorted.	Verify and correct wiring.
4. Temperature reading is inaccurate.	a) Temperature sensing may be affected by a source of ambient heat (ie., direct sunlight, or heat duct proximity). b) Temperature may require calibration. c) The unit is using the wrong temperature scale (Fahrenheit vs. Celsius).	Try moving the unit to a different location.  After moving or placing the unit away from ambient heat sources, the temperature may be calibrated to offset inaccurate normal reading by several degrees. Refer to Chapter 5, Section 5.6.  Verify temperature scale. See Chapter 5, Section 5.5.

**Sound Level Monitoring:**

<b>Problem</b>	<b>Cause</b>	<b>Solution</b>
<ol style="list-style-type: none"> <li>False high sound alarms occur frequently.</li> </ol>	<p>The programmed sound sensitivity results in over-sensitivity to non-alarm sound as well as alarm sound.</p> <p>Sound Recognition Time is too short.</p>	<p>Reprogram the sound sensitivity. Refer to Chapter 5, Section 5.10.</p> <p>Lengthen the sound Recognition Time. Refer to Chapter 5, Section 5.10.</p>
<ol style="list-style-type: none"> <li>High sound does not cause an alarm.</li> </ol>	<p>The unit is not close enough to the high sound source, or the programmed sound setting results in a lack of sensitivity to high sound.</p>	<p>Move the unit closer or reprogram the sound sensitivity. Refer to Chapter 5, Section 5.10.</p>

**Other Monitoring:**

<b>Problem</b>	<b>Cause</b>	<b>Solution</b>
<ol style="list-style-type: none"> <li>Alarm status of an alert input is incorrect.</li> </ol>	<p>Incorrect input normality.</p>	<p>Reconfigure the input. See Chapter 5, Section 5.1.</p>
<ol style="list-style-type: none"> <li>False power out alarms</li> </ol>	<p>Programmed Recognition Time is too short.</p>	<p>AC power is often subject to brief interruptions. To avoid frequent, false alarms, increase the power Recognition Time. Refer to Chapter 5, Section 5.9.</p>

<p>3. The Model 1108 does not recognize power failure.</p>	<p>a) Batteries are either incorrectly installed or drained.</p> <p>To verify proper battery function, unplug the unit and verify continued operation using batteries only. If unit ceases to function, first try reinstalling the batteries. If this is not successful, replace the batteries. Refer to Chapter 2, Section 2.4 for complete instructions.</p> <p>b) Recognition time setting is too long.</p> <p>Reprogram Recognition Time. Set the Recognition Time to the minimum required before a valid alarm occurs. If possible, test the condition by deliberately creating an alert condition. Refer to Chapter 5, Section 5.9.</p>
<p>4. The Model 1108 does not recognize any alarm.</p>	<p>a) Inputs for alarm are disabled.</p> <p>Enable the inputs for alarm. Refer to Chapter 5, Section 5.2.</p> <p>b) Programmed Recognition Time is too long.</p> <p>Reprogram Recognition Time. Set the Recognition Time to the minimum required for a monitored condition to become a valid alarm. If possible, test the condition by deliberately creating an alert condition. Refer to Chapter 5, Section 5.3.</p>

## Other Monitoring:

Problem	Cause	Solution
1. The batteries drain prematurely.	The unit's AC transformer is unplugged or for some other reason, full AC power is not available to the unit.	The batteries will take over powering the unit when the AC transformer is unplugged from the 120 VAC outlet. When storing the unit, be sure to remove the batteries. Refer to Chapter 2, Section 2.4. Be sure to use alkaline batteries—do not use rechargeable nicad batteries.

If the solutions offered above do not appear to correct the problem, apply the following steps, in the order shown.

- Remove the batteries.
- Unplug the unit.
- Wait one minute for the Model 1108 to completely power down.
- Plug in the unit's AC adaptor into a standard 120 VAC outlet.
- Replace the batteries.
- Reconfigure the inputs. Refer to Chapter 5, Section 5.1.

Refer to Chapter 2, Installation, for additional information on batteries and installation procedures.

## Appendix B: Checking your Sensaphone for Proper Operation

We recommend that you test your Sensaphone weekly to be sure it is functioning properly. This will ensure that when a problem arises the Sensaphone will be ready to alert the appropriate personnel.

There are several tests that can be performed:

- 1) Call the unit and listen to the Status Report. This will test the unit's ability to answer the phone and speak a message. It will also verify that all of the inputs are reading properly, the alarm conditions are OK, the electricity is on, the microphone is functioning, and the batteries are OK.
- 2) Create an alarm on each input and allow the unit to contact all programmed telephone numbers. This will make sure that the Sensaphone is programmed properly. It will also prepare personnel to respond appropriately when they receive a call from the Sensaphone.
- 3) Test the batteries by unplugging the AC adapter and making sure that the Sensaphone continues to function. Press WHAT IS, then STATUS on the keypad, and listen to the status report. Make sure the report states that "the electricity is off" and "battery condition OK". Keep the AC adapter unplugged so that a Power Failure alarm occurs. Allow the unit to dial all programmed telephone numbers while running on battery backup. Plug in the AC adapter after the unit has finished dialing all of the telephone numbers.
- 4) If you are using your Sensaphone to listen for a smoke alarm, then be sure to test the smoke alarm to make sure that the Sensaphone picks up the audible signal and triggers a high-sound-level alarm. Allow the unit to dial all programmed telephone numbers.



# Appendix C

## Accessories

The sensors listed below are available from Phonetics, and represent the most commonly used input devices. Other dry contact sensors, designed for more specialized applications, may also be used. Commercial or industrial electrical supply houses can provide devices to monitor virtually any condition. For further information, contact Phonetics Customer Service at (610) 558-2700.

<b>PART NUMBER</b>	<b>SENSOR / SWITCH</b>
FGD-0006	Magnetic Reed Switch
FGD-0007	Passive Infra-Red Detector
FGD-0010	Accessory Hook-Up Wire
FGD-0013	Water Detection Sensor
FGD-0022	Temp° Alert
FGD-0023	ISOTEL Surge Protector
FGD-0027	Humidistat
FGD-0049	Smoke Detector with Built-in Relay
FGD-0100	Remote Temperature Sensor
FGD-0101	Weatherproof Temperature Probe
FGD-0200	Phonecell SX3e Cellular Phone



## Appendix D: Returning the Unit for Repair

In the event that the Model 1108 does not function properly, we suggest that you do the following:

- 1) Record your observations regarding the Model 1108's malfunction.
- 2) Call the Technical Service Department at (610)558-2700 prior to sending the unit to Phonetics for repair.

If the unit must be sent to Phonetics for Servicing, please do the following:

- 1) Unplug the AC power supply from the wall outlet, remove the batteries, and disconnect all sensors from the alert inputs.
- 2) Carefully pack the unit to avoid damage in transit. Use the original container (if available) or a sturdy shipping box.
- 3) **You must include the following information to avoid shipping delays:**
  - a) **Your name, address and telephone number.**
  - b) **A note explaining the problem.**
- 4) Ship your package to the address below:

SERVICE DEPARTMENT  
PHONETICS INC.  
901 TRYENS ROAD  
ASTON, PA 19014

- 5) Ship prepaid and insured via UPS or US Mail to ensure a traceable shipment with recourse for damage or replacement.

## **1 YEAR LIMITED WARRANTY**

1. **WARRANTOR:** Dealer, Distributor, Manufacturer
2. **ELEMENTS OF WARRANTY:** This Product is warranted to be free from defects in materials and craftsmanship with only the limitations and exclusions set out below.
3. **WARRANTY AND REMEDY: One-Year Warranty** — In the event that the Product does not conform to this warranty at any time during the time of one year from original purchase, warrantor will repair the defect and return it to you at no charge.

This warranty shall terminate and be of no further effect at the time the Product is (1) damaged by extraneous cause such as fire, water, lightning, etc. or not maintained as reasonable and necessary; (2) modified; (3) improperly installed; (4) repaired by someone other than warrantor; (5) used in a manner or purpose for which the Product was not intended; or (6) sold by original purchaser.

WARRANTORS' OBLIGATION UNDER THIS WARRANTY IS LIMITED TO REPAIR OR REPLACEMENT OF THE PRODUCT. THIS WARRANTY DOES NOT COVER PAYMENT OR PROVIDE FOR THE REIMBURSEMENT OF PAYMENT OF INCIDENTAL OR CONSEQUENTIAL DAMAGES.

It must be clear that the warrantors are not insuring your premises or guaranteeing that there will not be damage to your person or property if you use this Product. The warrantors shall not be liable under any circumstances for damage to your person or property or some other person or that person's property by reason of the sale of this product or its failure to operate in the manner in which it is designed. The warrantors' liability, if any, shall be limited to the original cost of the Product. The warrantors assume no liability for installation of the Product and/or interruptions of the service due to strikes, riots, floods, fire, and/or any cause beyond Seller's control.

4. **PROCEDURE FOR OBTAINING PERFORMANCE OF WARRANTY:** In the event that the Product does not conform to this warranty, the Product should be shipped or delivered freight prepaid to a warrantor with evidence of original purchase.
5. **LEGAL REMEDIES:** This warranty gives you specific legal rights, and you may also have other rights which vary from state to state to the extent allowed by law expressly in lieu of any other express or implied warranty, condition, or guarantee.

Effective date 07/01/90

***Phonetics, Inc.***

901 Tryens Road

Aston, PA 19014

Phone: (610) 558-2700

Fax: (610) 558-0222