

EnviroCom I

Desktop Environmental Monitoring System Owner's Manual

Economical monitoring over telephone lines to protect your home or business

The EnviroCom system allows you to establish two-way communication and direct security monitoring of your property, even when there's no one there. It calls to tell you there's a problem and reports on:

- Fire and Smoke
- Temperature Changes
- Leaks or Flooding . . . and more.
- Power Failure
- Intruders

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Introduction

EnviroCom I Capabilities

The EnviroCom I is an electronic watchman. It monitors specific environmental and operating conditions of your vacation home, business, or other property. The EnviroCom I is equipped with built-in sensors that automatically monitor the following conditions:

- AC electrical power — checks for power failure.
- Temperature — it gives actual temperature and checks to see if it exceeds or falls below user-programmed high and low limits.
- High sound levels — such as smoke or burglar alarms.
- Battery — the condition of its battery back-up.

The EnviroCom I also has three digital alert inputs for sensors or switches (see [Appendix C](#)). The attachable sensors monitor other conditions at the unit's location or other areas, such as:

- Intrusion into premises
- Water leaks or floods
- Temperature in remote areas

The use of each alert input can vary widely. One example is as follows:

- Alert 1 — Alarm contacts on Best Power UPS
- Alert 2 — Water sensor for water seepage in a basement
- Alert 3 — Magnetic reed switch for a door

All monitoring is a continuous process. When a problem arises, the unit will sequentially dial up to four user-programmed telephone numbers with an alarm message. It will state the existing problem, then wait for the person answering to acknowledge the alarm call. The EnviroCom I will continue dialing out until its message is properly acknowledged.

You can also call in to the EnviroCom I to get a status report on the monitored conditions and listen in through the built-in microphone.

The EnviroCom I Owner's Manual

This manual describes the features and operation of the EnviroCom I. It provides explanations, illustrations, and examples to simplify its installation and programming.

Read this manual completely and experiment with the examples before you start actual programming.

EnviroCom I Specifications and Statistics

SIZE

2 inches high, 7.5 inches wide, 8.5 inches deep.

SHIPPING WEIGHT

4 lbs. (without batteries).

BATTERY SYSTEM

Six D-cell alkaline batteries (not included).

There are approximately 8-10 hours of continuous operation from the batteries when an AC power failure occurs and the unit is ON. Turning the unit OFF disconnects all functions, but if AC power is removed, the batteries will still be drained.

AC CONNECTION

UL-listed Class 2 wall transformer with a six-foot cord. Converts 120 VAC, 60 Hz, 10 Watt input to 9 VAC, 60 Hz, 600 mA output.

TELEPHONE CONNECTION

Standard modular connector (RJ11C) with a six-foot cord.

OPERATING CONDITIONS

The EnviroCom I should not be operated in temperatures less than +40°F nor more than +120°F.

Do not use the EnviroCom in an environment where it is exposed to fumes or corrosive vapors. They might damage the unit, causing it to malfunction, and void the warranty.

POWER SURGE PROTECTION

Your EnviroCom I may be affected by power surges through the telephone line or the 120 VAC power supply. **We recommend that you obtain additional protection for the EnviroCom, and for any electronic equipment which is attached to your power supply and telephone lines. This is especially important if you live in a lightning-prone area.** One source of protection is a SpikeFree surge protector available from Best Power. (See [Appendix C.](#))

IMPORTANT!

The EnviroCom I should be periodically checked to ensure proper operation in your particular installation. If you are using external sensors, their operation must be checked periodically as well. **The system with its sensors (if any) should be COMPLETELY checked monthly to ensure proper operation.**

Always disconnect all telephone lines from wall outlets before servicing or disassembling this equipment, or replacing batteries.

FCC Requirements

PART 68 — The EnviroCom I complies with Part 68 of the FCC Rules. On the bottom of the unit is a label that contains, among other information, the FCC Registration Number and the Ringer Equivalence Number (REN). You must, upon request, provide this information to your telephone company.

The REN is useful for determining 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 areas, the sum of the RENs of all devices connected to one line should not exceed 5.0. To be certain of the number of devices that you may connect to your telephone line, you should contact your local telephone company.

Should the EnviroCom I cause harm to the telephone network, the telephone company shall, if possible, notify you that temporary discontinuance of service may be required. However, if such action is necessary and prior written notice is not possible, the telephone company may temporarily discontinue service without notice. The telephone company may make changes in its communications facilities, equipment, and operations procedures, where such action is reasonably required in the operation of its business and is not inconsistent with the rules and regulations of the Federal Communications Commission.

The EnviroCom I should not be used on coin telephone lines. Connection to party line service is subject to state tariffs.

If trouble is experienced, disconnect the EnviroCom I from the telephone line to determine if the unit is causing the malfunction. If the EnviroCom is determined to be malfunctioning, its use should be discontinued until the problem has been corrected. We suggest that you do the following:

1. Refer to [Appendix E, Troubleshooting](#).
2. Carefully write down your observations of the EnviroCom's malfunctioning.
3. Call Best Power's Service Department at 1-800-356-5737 if any instructions are not clear or if you have any questions.

If your EnviroCom is programmed to dial to an emergency number (i.e. the police), you must do the following when testing:

1. Remain on the line and briefly explain to the dispatcher the reason for the call before hanging up.
2. Perform such activities in the off-peak hours, such as early morning or late evening.

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 when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instruction manual, 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/TV technician for help.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Best Power
P.O. Box 280
Necedah, WI 54646 U.S.A.
Phone: 1-608-565-7200
Toll-Free: 1-800-356-5794
Fax: 1-608-565-2221

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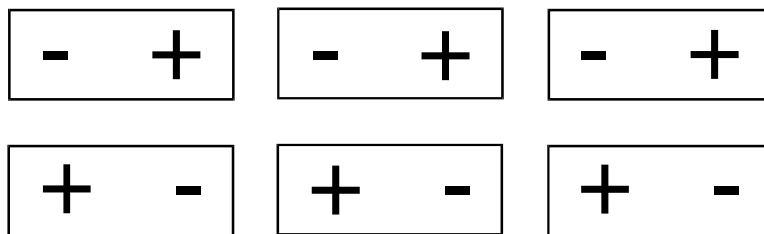
Chapter 1: Installation

Power Supply Installation and Telephone Connection

Plug the provided AC transformer into any standard 120 VAC outlet. Next, install the 6 D-cell alkaline batteries (not included). They enable it to continue functioning when AC power is removed.

NOTE: In order for the EnviroCom to sense a power outage, the AC transformer must not be plugged into the UPS.

Before putting the batteries into the unit, be sure that the AC transformer is plugged into an outlet. Remove the battery compartment door on the back of the EnviroCom. Install the 6 D-cell batteries in accordance with the diagram below:



Finally, replace the battery compartment door. See Figure 1.

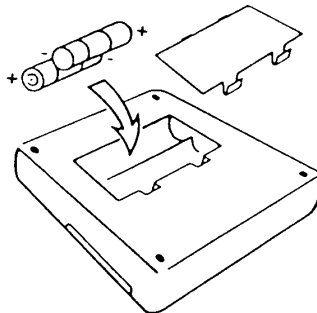


Figure 1: Battery Installation

Next, plug the provided male modular telephone jack into any standard modular telephone outlet (RJ11W for wall-mounted phones, RJ11C for other phones). (See [Figure 2](#) on the next page.)

On the back of the EnviroCom is a female modular telephone jack. This is provided so that a telephone may be used on the same line as the unit. It is not necessary to hook up a telephone for the EnviroCom to operate.

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

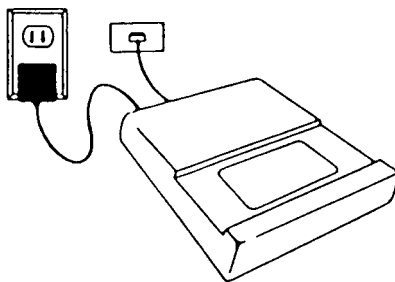


Figure 2: Plugging in the AC Transformer and the Telephone Jack

IMPORTANT!

The EnviroCom I will operate with all standard telephone systems that accept pulse or tone dialing.

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

The EnviroCom I cannot be used on an extension line to dial its own telephone number. It should not be used on the same line with any telephone answering devices, such as modems and answering machines. Also, it may not be installed on a party line or pay telephone line.

⚠ 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.

You should use power surge suppression devices on both the 120 VAC power supply and the telephone line. Please refer to page 2 of the **INTRODUCTION** for further information.

Mounting the EnviroCom I

The EnviroCom I can be mounted on a wall with two screws, using the keyholes on the back panel of the unit. To do so, place two screws or bolts 3 13/16 inches apart at the desired height from the floor. Position the EnviroCom's keyholes over the screw heads. Slide the unit down towards the floor.

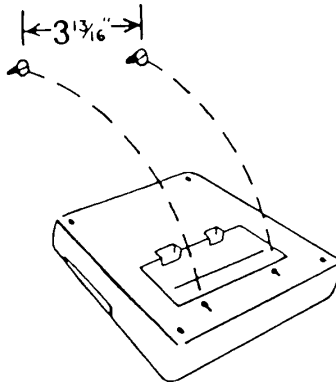


Figure 3: Mounting the EnviroCom I

The EnviroCom I can also be placed on top of a desk or any other horizontal surface.

The Alert Inputs

The EnviroCom I has three digital alert input terminals (see [Figure 5](#)). They are designated Alerts 1, 2, and 3.

An alert input can be used with any *normally open* (N.O.) or *normally closed* (N.C.) input device. *Open* is when there is no contact and *closed* is when a contact exists. The EnviroCom I will adapt to N.O. or N.C. sensors when the unit's ID number is programmed (see [Chapter 2](#), page 17).

Connecting the EnviroCom I to the Best Power FERRUPS

You can use the EnviroCom I to detect FERRUPS alarm conditions and to monitor when the UPS runs on inverter (battery power). To do this, you must connect the EnviroCom to the FERRUPS' alarm and inverter contacts. (See the instructions below.) Both the alarm contacts and the inverter contacts are at the FERRUPS' RS232 port (standard on all FERRUPS units).

Once the EnviroCom I and the FERRUPS are connected, the EnviroCom I will detect these UPS conditions: 1) a UPS alarm or 2) UPS inverter (battery power) on. Whenever there is a UPS alarm or the UPS runs on inverter, the normally open relay contacts on the UPS' logic board will activate an alert condition at the EnviroCom. When the EnviroCom senses the alert, it will automatically call your designated telephone numbers with a message. (See [THE TELEPHONE NUMBERS](#) in Chapter 2, [KEYBOARD OPERATIONS](#).)

Before connecting the EnviroCom to a FERRUPS, follow the instructions under [POWER SUPPLY INSTALLATION AND TELEPHONE CONNECTION](#) and [MOUNTING THE EnviroCom I](#) in this chapter. **NOTE:** The EnviroCom AC plug should be connected to an AC outlet that *is not* protected by the UPS. The best place to plug in the EnviroCom is a receptacle connected to the *same AC input service that supplies the UPS input*.

Once you have followed the instructions in the beginning of this chapter, make sure the EnviroCom is off. Then, plug the cable with a male DB25 connector (supplied) into the FERRUPS' RS232 port. Next, refer to [Figure 4](#) as you make the connections described on the next page (the EnviroCom may say "Alert condition (1 or 2) exists" as you connect the UPS. If it does, just press any key, and the EnviroCom will stop speaking).

-To set up the EnviroCom to detect a UPS alarm, connect UPS RS232 pins 23 and 24 (Alarm contacts) to EnviroCom terminals 8 and 7 respectively (Alert 1). To do this, connect the black wire shown below to EnviroCom terminal 8, and connect the red wire to EnviroCom terminal 7.

-If you want to be informed when all AC line (UPS input) power disturbances occur (from momentary up to 5 minutes), connect the UPS' RS232 pins 12 and 13 (Inverter on contacts) to the EnviroCom's terminals 6 and 5 respectively (Alert 2). To do this, connect the green wire shown below to EnviroCom terminal 6, and connect the white wire to EnviroCom terminal 5. If you want EnviroCom to call only if a power outage lasts longer than 5 minutes, do not connect the Inverter On contacts to EnviroCom Alert 2 input terminals 6 and 5.

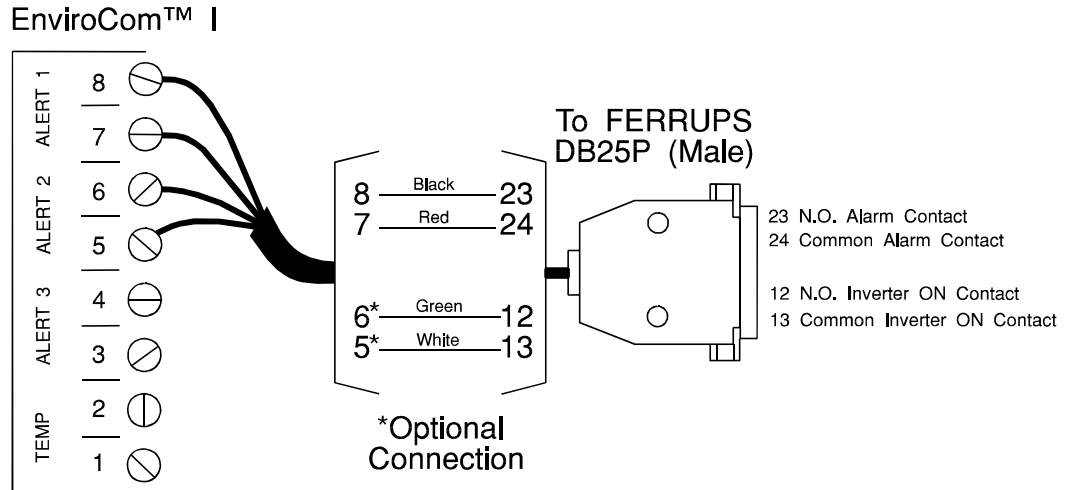


FIGURE 4: CONNECTING EnviroCom I TO A Best Power FERRUPS

When AC input (line) power fails, the EnviroCom will automatically call after the electricity has been off for 5 minutes. If AC input (line) power returns before 5 minutes pass, the EnviroCom will not call out with a message unless you have connected it to the UPS' inverter contacts.

If an AC input line outage lasts a long time, the UPS batteries will be depleted. When this happens,

- a. The UPS will sound a "Near Low Battery" alarm.
- b. As soon as the alarm sounds, the alarm contacts will close, and the EnviroCom will detect this as an Alert 1 condition. (The EnviroCom detects an Alert 1 when any UPS alarm sounds.)
- c. EnviroCom will then call the telephone number you have programmed and inform you that there is an "Alert Condition 1." You can listen to the background sound for 15 seconds; if your EnviroCom is close to your UPS, you should be able to hear the code for the Near Low Battery alarm (— ● ● ●). (The UPS User Manual lists the codes for all UPS alarms.)
- d. The EnviroCom will ask you to "Indicate you have received warning message." If you have a Touch Tone phone, press any key within the next 5 seconds to acknowledge the message. If you do not have a Touch Tone phone, wait until the EnviroCom finishes its message; once the message is done, you have 60 seconds to call in to acknowledge the warning. When you call in, you can listen to the UPS coded alarm tone again. (See [Automatic Dial-out](#) in Chapter 3.)

The EnviroCom will send this type of warning message whenever it detects a UPS alarm (Alert 1). To determine which alarm is sounding, wait until the EnviroCom lets you listen to the background sound, and note the alarm code the UPS is sounding; then, call in to acknowledge the EnviroCom warning. (If you miss the code during the EnviroCom's call, you can listen again when you call in your acknowledgment.) See the alarm codes in the FERRUPS' User Manual to find the alarm.

NOTE: For additional information on selecting UPS alarms, see TIP 502, which is available from Best Power.

If you plan to connect a sensor to the Alert 3 input, go on to **Connecting Additional Sensors to an Alert Terminal**. If not, go on to [Chapter 2, Keyboard Operations](#), (for programming instructions) and [Chapter 3, Operating Functions](#).

Connecting Additional Sensors to an Alert Terminal

Each alert input consists of two screws, marked "ALERT (1, 2, or 3)." Directly above each screw is a number that designates the terminal number. For example, Alert 1 is terminal 7 and 8.

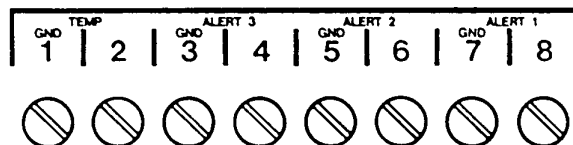


Figure 5: Terminal Strip

Once you have connected the FERRUPS to the Alert 1 input, you must determine what type of sensor will be connected to the remaining alert input(s) (Alert 3 and Alert 2 if you have not connected the FERRUPS to Alert 2). For types, refer to Appendix C.

After you have selected the sensor, loosen the two screws of the alert input to which it will be connected. Two wire leads are used to connect any monitoring sensor. Fasten one lead to one screw and the other lead to the second screw. Tighten both screws. The EnviroCom may say "Alert condition (1, 2, or 3) exists" as you connect the sensor. If it does, just press any key and it will stop speaking.

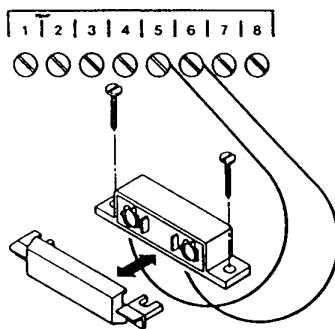


Figure 6: Connecting a Sensor to an Input Terminal

NOTE:

Do not use sensors, switches, or relays that supply voltage or current to the EnviroCom I.

Any N.O. or N.C. sensor can be attached to the EnviroCom I 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.

After all of the sensors are wired to the EnviroCom, and are in a normal (OK) position, the ID number must be programmed. When the ID number is programmed, the EnviroCom scans all the alert inputs, and whatever the unit sees at that time is the normal position for the inputs. This will set the normality of all the alert inputs. See [Chapter 2](#) page 17.

The EnviroCom I may have more than one sensor connected to the same terminal. However, the *normal* condition for each sensor on the same terminal must be identical (either N.O. or N.C.).

Multiple Normally Closed Sensors

To have more than one *normally closed* sensors on one input, they must be connected in series. Connect one lead from the first sensor to the odd-numbered terminal of the alert pair. 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 your last sensor and connect it to the even-numbered terminal of the alert pair. Refer to Figure 7.

Multiple N.C. inputs are typically magnetic reed switches to monitor the security of windows and doors.

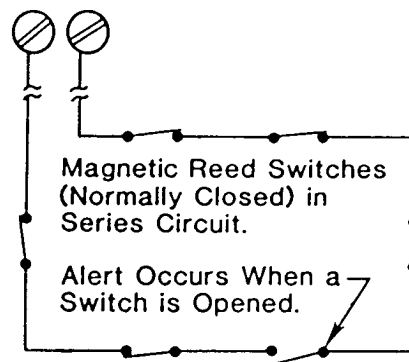


Figure 7: Connecting Multiple N.C. Sensors to One Input Terminal

Multiple Normally Open Sensors

To have several *normally open* sensors to one alert input, connect them in *parallel*. To do so, take one lead from each sensor and attach it to an odd-numbered terminal. Then, take the second lead from each sensor and attach each to the corresponding even-numbered (see Figure 8).

Multiple N.O. inputs are typically TEMP° ALERTS* to monitor the temperature in several different locations simultaneously.

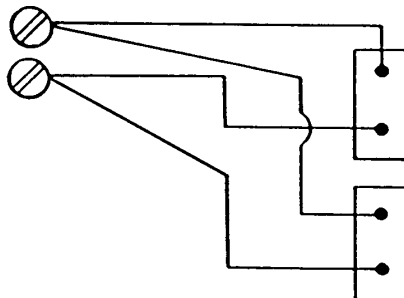


Figure 8: Attaching Multiple N.O. Sensors to One Input Terminal

* trademark of Winland Electronics, Inc.

Chapter 2: Keyboard Operations

The EnviroCom I stores the following important programmable information in its memory. Set these parameters using the EnviroCom I keyboard. See Figure 9.

- Time
- Four telephone numbers automatically called in emergencies
- Tone or pulse dialing
- Number of rings before the EnviroCom I answers the telephone to give a status report
- High and low temperature alarm limits
- The ID number
- Silencing the local speaker during dial-out and call-in

WHAT IS	SET	ON	OFF
1	2	3	4
5	6	7	8
PAUSE TONE MUTE AM	9	0	ENTER PM
TEMP	ID	RINGS	TIME

Figure 9: the EnviroCom I Keyboard

The keys on the EnviroCom I are mentioned often in this chapter. In text, they will always be symbolized by **BOLDFACE, CAPITALIZED** letters. The sentence "Press **SET**, then **RINGS**" is read as "Press the key with the word SET on it, then press the key with the word RINGS on it."

Two of the keys are multi-functional. In programming instructions, only the word for the specific parameter being programmed will be used. For example, the sentence "Press **9**, then **PAUSE**" is read as "Press the key with the number 9 on it, then press the key with the words PAUSE/TONE/MUTE/AM on it." In illustrations, the parameter being used will be **boldface**, while the other parameter(s) will be normal typeface. So, "Press **9**, then **PAUSE**" will be shown as follows:



Every time a key is pressed, the unit will beep. The beep is high-pitched when information is being entered. Any time you make a mistake in programming, it will say "Error."

To begin programming your unit, verify that your unit is fully installed and **ON**.

The Time

The EnviroCom I has a built-in clock. Once the current time is programmed, the unit will monitor the time. If the AC fails, the clock will continue to keep time until the back-up battery is depleted. When both the AC power and the back-up battery fail, the clock will reset to 12 AM.

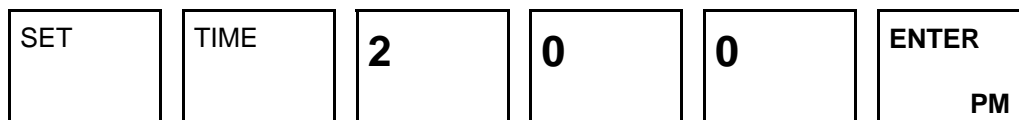
Setting the Time

To set the time, press **SET**, followed by **TIME**. Enter the numbers for the correct time. Since there is no colon (:) key on the unit's keyboard, the time must be entered as numbers only. If the time is AM, press **AM**, then **ENTER**. If the time is PM, just press **ENTER**.

For example, to set the time to be 8:45 AM, press the following keys:

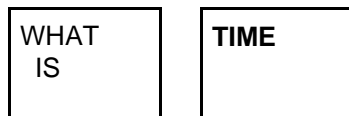


To set the time to be 2:00 PM, press the following keys:



Checking the Time

To check the time, press **WHAT IS**, then **TIME**. The unit will say "The time is (number, AM or PM)."



Referring to the two previous examples, the unit should respond with "The time is 8:45 AM" and "The time is 2:00 PM," respectively.

The Telephone Numbers

The EnviroCom I has the capability to store up to four, 16-digit (or smaller) telephone numbers in its memory. They are known as Phones 1, 2, 3, and 4. These are the alarm *dial-out* telephone numbers. They are automatically called in sequence when an alarm condition occurs. You can program the EnviroCom to dial the Phone numbers using pulse (rotary) or tone dialing.

The telephone numbers are programmed in the sequence in which you want to have them called. They are programmed into Phone positions 1, 2, 3, and 4. Therefore, the number to be called first would be Phone 1, the number to be called second would be Phone 2, et cetera.

IMPORTANT!

Try to avoid programming dial out phone numbers that might be answered by an answering machine. There is no electrical or operational problem if an answering machine answers a phone call made by the EnviroCom, but if all the dial out phone numbers are programmed to call answering machines, the unit can potentially dial out forever, leaving the alarm situation unacknowledged.

Instruct key people at each telephone number about the EnviroCom I and about what actions they should take if called with an alarm. If necessary, instruct switchboard operators to handle alarm and acknowledgment calls. Do not have the alarm call answered by a person who is unable to acknowledge the alarm or to take prompt, effective action to deal with the situation. If appropriate, conduct periodic drills to familiarize personnel with the operation of the unit.

In some areas, municipal services (i.e. police, fire, medical) will not respond to automatic voice messages. Check with your local municipal services.

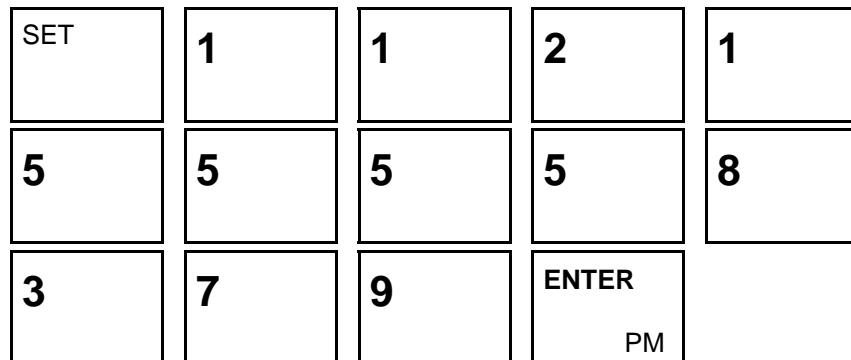
Setting a Dial-out Telephone Number

The EnviroCom can dial out using pulse dialing or touch-tones. It will normally dial out with pulse, but can be switched to touch-tones by inserting **TONE** as the *first digit* of the telephone number. The PAUSE/TONE/MUTE/AM key will only indicate tone dialing when it is the *first digit* of a telephone number. If **PAUSE** is inserted in the *middle* of a telephone number, it produces a 4-second pause during dial-out. See **Using PAUSE** for more information.

To set a pulse-dialed telephone number, press **SET**, then the Phone number (**1, 2, 3, or 4**). Press the keys corresponding to the digits of the telephone number. Finally, press **ENTER**.

To set a tone-dialed telephone number, press **SET**, the Phone number (**1, 2, 3, or 4**), then **TONE**. Press the keys corresponding to the digits of the telephone number. Finally, press **ENTER**.

For example, to set Phone 1 as 1-215-555-8379, press **SET**, then **1**. Press the keys corresponding to the digits of the telephone number. Finally, press **ENTER**.



For example, to set Phone 2 as 1-215-555-9387 and tone-dialed, press **SET**, **2**, then **TONE**. Press the keys corresponding to the digits of the telephone number. Finally, press **ENTER**.

SET	2	PAUSE TONE MUTE AM	1	2
1	5	5	5	5
9	3	8	7	ENTER PM

Using PAUSE

With some telephone systems, you must first dial an access number to reach an outside line, then pause for the connection before dialing a regular telephone number. The EnviroCom I also has this capability.

The 4-second pause can be programmed as part of the telephone number. To do so, press **SET**, and the Phone number (**1**, **2**, **3**, or **4**) (for a tone-dialed number, then press **TONE**). Next, press the keys corresponding to the digit(s) of the access number, then press **PAUSE**. Now press the keys corresponding to the digits of the regular telephone number. Finally, press **ENTER**.

For example, to set Phone 3 so that the EnviroCom I will tone-dial 9 to access an outside line, wait for the dial tone, then tone-dial 1-215-555-4523, press the following keys:

SET	3	PAUSE TONE MUTE AM	9	PAUSE TONE MUTE AM
1	2	1	5	5
5	5	4	5	2
3	ENTER PM			

Using a Pound and Asterisk

When calling some phone systems or beeper systems, a pound tone or an asterisk tone may be required. To incorporate a pound tone within the dial-out phone number, press **SET** at the appropriate position within the phone number. To incorporate an asterisk tone within the dial-out phone number, press **WHAT IS** at the appropriate position within the phone number.

Deleting a Phone Number

To delete a telephone number from memory, press **SET**, the Phone number, then **ENTER**.

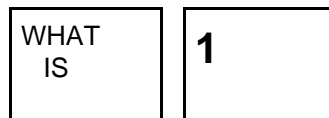
For example, to delete Phone 3 from memory, press the following keys:



Checking a Dial-out Telephone Number

To check a telephone number, press **WHAT IS**, then the Phone number you want to check. The EnviroCom I will state the telephone number.

For example, to check Phone 1, press the following keys:



When you check a telephone number that is tone-dialed, the EnviroCom will beep before it states the telephone number. For example, to check Phone 2 in *SETTING A DIAL-OUT TELEPHONE NUMBER*, press **WHAT IS** then **2**. The EnviroCom will beep, then say "One, two, one, five, five, five, five, nine, three, eight, seven."

When you check a telephone number that has a programmed pause, the unit will state the access number, beep when the pause is programmed, then state the rest of the telephone number.

For example, to check Phone 3 from the example in **Using the PAUSE Key**, press **WHAT IS**, then **3**. The EnviroCom I will beep, say "Nine," beep again, then say "One, two, one, five, five, five, five, four, five, two, three."

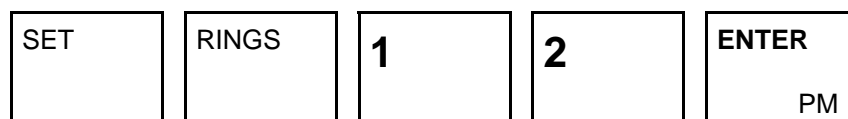
If there is no *dial-out* telephone number in the unit's memory, it will say "No number." For example, to check Phone 3 after it has been deleted, press **WHAT IS**, then **3**. The EnviroCom I will say "No number."

The Rings until Answer

The *Rings Until Answer* are the number of rings that must occur before the EnviroCom I will answer the telephone in response to a *call-in*. The number of rings can be programmed to be from 1 to 79.

Setting the Rings until Answer

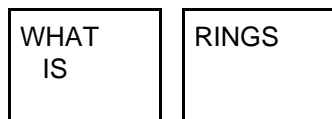
To set this number, press **SET**, then **RINGS**. Enter the number of rings desired, then press **ENTER**. For example, to set the number of *Rings Until Answer*, press the following keys:



If you do not set a *Rings Until Answer*, the EnviroCom I will set it to be 4 rings.

Checking the Rings until Answer

To verify the number of Rings Until Answer, press **WHAT IS**, then **RINGS**. The EnviroCom I should repeat the number you have entered.



Referring to the above example, the EnviroCom I will say "Twelve."

The Temperature Limits

The temperature limits determine the high and low readings at the temperature probe which will cause the EnviroCom I to automatically *dial-out* with an alarm. The range of the temperature probe is +0°F to +128°F. The EnviroCom I has high and low temperature limits of +98°F and +55°F, respectively, until you set in your own values.

Setting the Temperature Limits

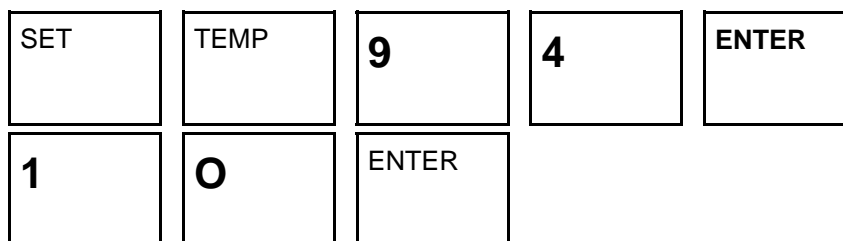
To set the temperature limits, press **SET**, then **TEMP**. The unit will respond with "Enter high temperature limit." Enter the number, then press **ENTER**. The EnviroCom I will then say "Enter low temperature limit." Enter the number, then press **ENTER**.

HINT:

Do not set the limits too close to the normal room temperature. Minor changes in temperature would cause frequent and unnecessary alarm *dial-outs*.

Setting the high temperature limit to 128°F and the low temperature limit to 0°F will disable the alarms and the EnviroCom will not dial-out with a temperature alarm.

For example, set the high temperature limit to be +94°F and the low temperature limit to be +10°F by pressing the following keys:

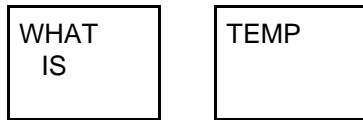


Checking the Temperature Limits

To verify the temperature limits, press **WHAT IS**, then **ID** for a status report. The status report is given in [Checking the Id Number](#) (on page 18).

Obtaining Current Temperature

To obtain the current temperature, press **WHAT IS**, then **TEMP**.



The unit will state the temperature at the thermistor (or remote temperature probe).

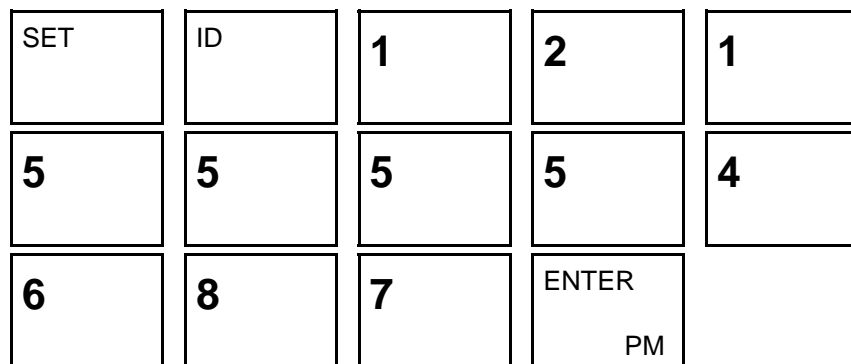
The ID Number

The unit's identification (ID) number can be from 1 to 16 digits long. Typically, it is the telephone number where the unit is located, although it does not have to be. **The ID number should be programmed into the unit only after all sensors are wired to the unit and are in their normal state. This will establish the normal condition of the alert input sensors in the EnviroCom's memory.** Any change in these states will cause an alert *dial-out*.

Setting the ID Number

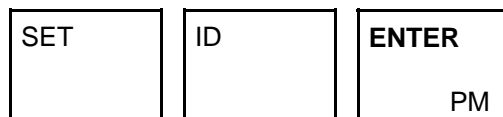
To set it, press **SET**, then **ID**. Press the keys corresponding to the digits of the ID number. Finally, press **ENTER**.

For example, to set the unit's ID number to be 1-215-555-4687, press the following keys:



Deleting the ID Number

To delete the ID number from memory, press **SET**, **ID**, then **ENTER**.



Checking the Id Number

To check the identification number, press **WHAT IS**, then **ID**.

WHAT
IS

ID

The unit gives you a status report, which follows:

STATEMENT	COMMENT
Hello	
This is telephone number _____	(the ID number)
The time is _____	(time, AM or PM)
The temperature is _____ degrees	(local temperature at EnviroCom I)
The electricity is _____	ON OFF
Sound level _____	OK HIGH
Alert condition _____	OK 1 EXISTS 2 EXISTS 3 EXISTS
(battery condition)	BATTERY CONDITION OK BATTERY CONDITION LOW REPLACE BATTERIES
High temperature limit _____ degrees	(High temp. limit, °F)
Low temperature limit _____ degrees	(Low temp. limit, °F)

Referring to the example in **Setting The Id Number**, the EnviroCom I would say "Hello. This is telephone number one, two, one, five, five, five, five, four, six, eight, seven," then give the rest of the status report.

If there is no ID number programmed, the unit will say "No number" after the phrase "This is telephone number" when it gives the status report.

Muting the EnviroCom During Dial-out and Call-in

The EnviroCom has a programmable mute as a security feature. The mute will only be in effect during dial-out and call-in; in other words, it will not affect programming the unit. The mute turns off the local speaker when the EnviroCom is dialing out with an alarm or accepting an incoming phone call.

To program the mute, press **MUTE** before you program the ID number. For example, to mute the speaker while programming the ID number to be 1-215-555-4687, press the following keys:

SET	ID	PAUSE TONE MUTE AM	1	2
1	5	5	5	5
4	6	8	7	ENTER PM

When you check the ID number, the EnviroCom will say "Hello. This is telephone number," beep to indicate that the mute is programmed, then continue on with the rest of the ID number and status report.

NOTE:

Another security feature of the ID key is leaving the building that the EnviroCom is in. When you press **WHAT IS**, then **ID**, the EnviroCom will begin giving the status report, which takes approximately 30 seconds. During those 30 seconds, the EnviroCom I will not sense any changes in the alert inputs, though it will still acknowledge high/low temperature and AC power failure. This means you have 30 seconds to leave the building without tripping an alert condition.

Chapter 3: Operating Functions

On/Off Keys

There are two keys on the EnviroCom's keyboard marked **ON** and **OFF**. They are used to activate and deactivate the unit.



When you press **ON**, the red light on the EnviroCom I will begin to glow while the unit says "Hello," states any existing alarms, then says "The time is twelve A.M.)*" If the unit is already on, it will just beep.

This activation state enables the EnviroCom I to receive incoming calls and automatically *dial-out* in the event of the failure of a monitored condition. The red light will always glow while the unit is in the activation state.



When you press **OFF**, the EnviroCom will say "Have a good day" and the red light will stop glowing. All functions are disabled. If any alarm condition occurs, the EnviroCom I will not *dial-out*. However, the clock will still keep time. An AC and battery back-up power failure would result in the loss of all memory, which would necessitate the reprogramming of the unit.

It is recommended that the EnviroCom I stay **ON**, unless it is necessary to disable the unit temporarily. To store the EnviroCom I, remove the batteries; otherwise, the unit will drain the batteries, even if it is **OFF**.

*If the time was previously set, the EnviroCom I will state the current time.

Microphone

The EnviroCom I has a built-in microphone. It has two important functions:

- It will continuously listen for a high sound level that increases 10 db over the normal sound level at a frequency of 1000 Hertz or more. If this sound level exists for 10 consecutive seconds or longer (such as a smoke alarm or burglar alarm) then the EnviroCom I will dial-out with an alarm message.
- During both a *call-in* and an automatic *dial-out*, the microphone allows a 15-second *listen-in* to the EnviroCom's location.

The location of the smoke or burglar alarm in relation to the microphone is extremely important. Normally, the EnviroCom I 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.

NOTE:

Please note that short duration or intermittent alarm signals **may not** trigger the alarm *dial-out*.

Alarm Check

After the EnviroCom and the alarm have been positioned, activate the alarm for 15 seconds. The EnviroCom I should say "Sound level high" and start its *dial-out* procedure. Press any key to halt the *dial-out*.

If the unit fails to respond, the EnviroCom and the alarm must be moved closer together. **You must wait 60 seconds between tests to allow the EnviroCom to readjust.**

IMPORTANT!

The ability of the unit to react to an audible alarm must be checked upon installation and periodically verified!

The Call-in Status Report

You can *call-in* to the EnviroCom I anytime to obtain a verbal status report. The unit will answer the telephone after it rings the number programmed as *Rings Until Answer*. You will receive the following message:

STATEMENT	COMMENT
Hello	
This is telephone number _____	(the ID number)
The time is _____	(time, AM or PM)
The temperature is _____ degrees	(local temperature at EnviroCom I)
The electricity is _____	ON OFF
Sound level _____	OK HIGH
Alert condition _____	OK 1 EXISTS 2 EXISTS 3 EXISTS
(battery condition)	BATTERY CONDITION OK BATTERY CONDITION LOW REPLACE BATTERIES

The EnviroCom will repeat the status report, then say "Listen to the sound level for 15 seconds." After the 15 second listen-in, the EnviroCom I will say "Have a good day" and disconnect from the telephone line.

If you *call-in* for a status report after an alarm *dial-out* has been properly acknowledged but the alarm condition still exists, you will also be told:

STATEMENT	COMMENT
Warning message received by _____	(Phone number unit dialed prior to acknowledgment call)

This statement will go away when the alarm goes away.

Automatic Dial-out

The EnviroCom I will automatically *dial-out* to the four telephone numbers you had programmed into its memory when one (or more) of the following conditions occur:

- The AC power goes OFF for at least 5 minutes. The unit waits this long because short duration electrical failures are common in some areas. During the 5 minute period, the speaker will announce "The electricity is OFF" every 15 seconds.
- The temperature varies beyond the high or low limits you have programmed. The EnviroCom will say "The temperature is high" or "The temperature is low," respectively, for 30 seconds.
- A high sound level occurs whose duration is 10 seconds or longer. The EnviroCom will say "Sound level high" for 30 seconds.
- Alert condition 1, 2, or 3 is activated when the status of a sensor on Alert input 1, 2, or 3 changes for at least 200 milliseconds. The EnviroCom will say "Alert condition (1, 2, or 3) exists" for 30 seconds.

High or low temperature, high sound, and alert conditions will cause the EnviroCom I to state the detected condition through its speaker for 30 seconds before starting to dial-out. If the mute is programmed, the unit will be silent during those 30 seconds.

AC power failure must exist for 5 continuous minutes for an alarm condition to exist. During those 5 minutes, the EnviroCom will announce "The electricity is off" every 15 seconds. However, the unit is capable of normal functioning during those 5 minutes. You can call-in for a status report, but you will be told the power is off even though it has not been off for 5 minutes. After the power has been off for 5 minutes, the EnviroCom will dial-out. To cancel the dial-out during the 5 minute recognition period, press **OFF**, then **ON**.

The EnviroCom I will dial Phone 1, deliver its alarm message and status report, then state "Indicate you have received warning message" and pause for 5 seconds. During the 5-second pause, the unit will wait for a Touch-Tone acknowledgement. If the Touch-Tones are not received, the unit will then ask for an acknowledgement call-back and wait sixty seconds for the call. If the alarm is not properly acknowledged, the EnviroCom I will call Phone 2 and go through the same procedure. If there is no call-back, it will call the Phone 3 and repeat the procedure. If that call is not acknowledged, the unit will call Phone 4. If there is no acknowledging telephone call, the EnviroCom I will then begin the entire procedure again, starting with Phone 1. If any Phone number is not programmed, the unit will skip to the next sequential programmed Phone number without any delay.

The EnviroCom begins talking after the last digit of the phone number is dialed. Therefore, when you answer the phone, the EnviroCom could be at any point within its dial out message, depending on how quickly you answer the phone.

If there is only one telephone number in memory, the EnviroCom will dial-out to 15 times, then stop, in accordance with FCC regulations.

The message you will receive is the following:

STATEMENT	COMMENT
Hello	
This is telephone number _____	(the ID number)
(warning message)	
Hello	
This is telephone number _____	(the ID number)
(warning message)	
Hello	
This is telephone number _____	(the ID number)
The time is _____	(time, AM or PM)
The temperature is _____ degrees	(local temperature at EnviroCom I)
The electricity is _____	ON OFF
Sound level _____	OK HIGH
Alert condition _____	OK 1 EXISTS 2 EXISTS 3 EXISTS
(battery condition)	BATTERY CONDITION OK BATTERY CONDITION LOW REPLACE BATTERIES
Listen to the sound level for 15 seconds	(15-second listen-in)
Indicate you have received warning message	(5-second pause for Touch-Tone response)
Dial telephone number _____ within 60 seconds	(ID number)

If an alarm condition comes into existence while the EnviroCom I is dialing-out for a different alarm condition, the EnviroCom will add the new condition to its dial-out report. This cycle can be stopped at any time by pressing any key on the EnviroCom I keyboard.

Acknowledgment of Alarms

Locally — At any time during an alarm dial out, the alarm may be acknowledged locally by hitting any key on the keypad. This will stop the dial out procedure and the unit will indicate that the warning message was received by its ID number.

Touch-Tones — At the end of the dial-out alarm message, the unit will say "Indicate you have received warning message" and then pause for five seconds. During those five seconds of silence, you may acknowledge receipt of the alarm by pressing **5, 5, 5** on any Touch-Tone telephone. This will stop the dial-out procedure. When the EnviroCom receives the Touch-Tones **5, 5, 5**, it will respond by saying "Warning message received by telephone number _____." and will disconnect from the phone line. If the unit does not receive these touch tones, it will continue by stating "Dial telephone number (ID number) within 60 seconds".

Call back — At the end of the dial-out alarm message, the unit will say "Indicate you have received warning message," pause for five seconds, and continue with "Dial telephone number (ID number) within 60 seconds." When acknowledging an alarm by calling back, the first ring of your call-back must occur within 60 seconds after the EnviroCom completes its alarm call and hangs up. The telephone must then ring 10 times. After the tenth ring, the unit will answer and state "Warning message received by (the telephone number it had just dialed)," followed by a status report. The EnviroCom I will then discontinue further *dialing out* for this alarm condition.

During the 60 second countdown, the unit will beep every second, unless the unit has been programmed to be mute upon an alarm dial-out. Once the first ring of the acknowledgment call-back is received, the unit will only beep every time it receives a ring signal.

If that condition reoccurs or if any other alarm occurs, the automatic *dial out* procedure starts again.

Appendix A: Explanation of Keys

Key	Function
WHAT IS	<ul style="list-style-type: none">• Used in interrogation of unit.
SET	<ul style="list-style-type: none">• Used in programming of unit.
ENTER	<ul style="list-style-type: none">• Used in programming of units to enter information into the EnviroCom's memory.
TEMP	<ul style="list-style-type: none">• Used with SET to set high and low temperature limits.• Used with WHAT IS to check the current temperature.
RINGS	<ul style="list-style-type: none">• Used with SET to program the number of rings before the unit answers the telephone.• Used with WHAT IS to check the number of rings.
ID	<ul style="list-style-type: none">• Used with SET to enter the identification number of the unit and <i>normal</i> status of alert inputs.• Used with WHAT IS to get a status report on the conditions that are being monitored.
TIME	<ul style="list-style-type: none">• Used with SET to enter the present time into the EnviroCom I.• Used with WHAT IS to check the time.
PAUSE	<ul style="list-style-type: none">• Used to set a pause into a telephone number when required to access an outside telephone line for a <i>dial-out</i>.
MUTE	<ul style="list-style-type: none">• Used while programming the ID number to program the EnviroCom to silence the speaker during call-in and dial-out.
TONE	<ul style="list-style-type: none">• Used to designate tone dialing for a telephone number.
AM	<ul style="list-style-type: none">• Used when programming time to indicate the period between midnight and noon.
PM	<ul style="list-style-type: none">• Used when programming time to indicate the period between noon and midnight.

Appendix B: Valid Keyboard Sequences

NOTE: Commands inside brackets [] are optional

Interrogation Command Sequences

WHAT IS	TEMP	<i>temperature</i>
WHAT IS	RINGS	<i>rings until answer</i>
WHAT IS	ID	<i>ID number</i>
WHAT IS	TIME	<i>time</i>
WHAT IS	1	<i>Phone 1</i>
WHAT IS	2	<i>Phone 2</i>
WHAT IS	3	<i>Phone 3</i>
WHAT IS	4	<i>Phone 4</i>

Programming Command Sequences

SET TEMP	[PAUSE]	(number)	ENTER	[PAUSE]	(number)	ENTER	<i>temp. limits</i>
SET RINGS		(number)				ENTER	<i>rings until answer</i>
SET ID	[MUTE]	(number)				ENTER	<i>ID number</i>
SET TIME		(number)	AM			ENTER	<i>AM time</i>
SET TIME		(number)				PM	<i>PM time</i>
SET 1	[TONE]	(number)		[PAUSE]	(number)	ENTER	<i>Phone 1</i>
SET 2	[TONE]	(number)		[PAUSE]	(number)	ENTER	<i>Phone 2</i>
SET 3	[TONE]	(number)		[PAUSE]	(number)	ENTER	<i>Phone 3</i>
SET 4	[TONE]	(number)		[PAUSE]	(number)	ENTER	<i>Phone 4</i>

Deleting Parameters

SET	ID	ENTER	<i>ID number</i>
SET	1	ENTER	<i>Phone 1</i>
SET	2	ENTER	<i>Phone 2</i>
SET	3	ENTER	<i>Phone 3</i>
SET	4	ENTER	<i>Phone 4</i>

Appendix C: Accessories

The sensors listed are the most commonly used input devices. However, there is a virtually unlimited variety of sensor/switch input devices available at commercial or industrial electrical supply houses. They can provide a device to monitor virtually any condition that might be required for your business, industrial, or residential needs. Contact the nearest Best Power office for more information.

MODEL NUMBER	SENSOR/SWITCH
ECH5001	EnviroCom Heat Sensor
ECW5001	EnviroCom Water Sensor
SP2, 2C, 2T, 4T or 6	SpikeFree Surge Protector

Appendix D: Maintenance

The following procedure is a condensed version of our factory test. It should be performed upon installation and repeated periodically.

1. Verify that the correct telephone numbers for automatic *dial-out* are in memory by pressing **WHAT IS** and the Phone number (**1, 2, 3, or 4**).
2. Test the *dial-out* ability of the EnviroCom I by removing the AC transformer from the wall outlet, while leaving the batteries installed. The unit should *dial-out* with its "The electricity is OFF" alarm message after 5 minutes.
3. Test the alert inputs by changing the status of the sensors connected to each alert terminal for at least 200 milliseconds. To do so, place one end of a paper clip (or other piece of wire) to the even-numbered terminal and the other end to the corresponding odd-numbered terminal.
4. Check the high sound alarm by pressing the test button on your smoke alarm until the EnviroCom I reacts with an automatic dial-out.
5. After checking the *dial-out* ability, test the batteries by leaving the AC transformer unplugged for at least 5 minutes. After that amount of time has elapsed, press **WHAT IS** and **ID** to obtain a status report. If the battery condition is fine, you will just get a regular status report. Otherwise, you will get a status report with a "Battery condition low" alarm message. If the batteries are too low, you will get the message "Replace batteries."
6. Test the *call-in* feature by calling the unit to get a status report.

Appendix E: Troubleshooting

Problem	Possible Cause
Unit does not talk.	<ul style="list-style-type: none"> • Unit not ON. • Wall transformer not plugged into a 120 VAC outlet.
Unit does not dial out automatically.	<ul style="list-style-type: none"> • No telephone numbers entered in Phone 1 through Phone 4. • Unit not ON. • Telephone jack not connected. • Wall transformer not plugged into a 120 VAC outlet.
Unit does not answer incoming calls after the prescribed number of rings.	<ul style="list-style-type: none"> • Wall transformer not plugged into a 120 VAC outlet. • Incompatibility with telephone system. • Unit not ON. • Telephone jack not connected.
Unit does not function normally.	<ul style="list-style-type: none"> • Unit programmed or installed incorrectly. • Unit was exposed to power surge through power and/or telephone lines. • Sensors and/or wiring damaged or defective.
Invalid temperature reading.	<ul style="list-style-type: none"> • There is a bad or broken temperature connection between the EnviroCom I and the temperature sensor. <p>If the temperature reads 0°, the circuit is open. If the temperature reads 128°, the circuit is shorted.</p>

To service your EnviroCom I, do the following:

1. Carefully reread the instruction manual to be certain that all connections and programming were done correctly.
2. Check to see if the EnviroCom I was damaged by a power surge.
 - a. Remove the AC power supply from the 120 VAC wall outlet and remove the batteries.
 - b. Allow the unit to remain unpowered for 10 to 15 minutes.
 - c. Restart and reprogram the EnviroCom I in accordance with the instructions in this manual.
 - d. Retest all functions and sensors.

Appendix F: Returning your Units for Service

In the event that your EnviroCom I does not function properly and you cannot reprogram it, we suggest that you do the following:

1. Refer to [Appendix E, Troubleshooting](#).
2. Carefully write down your observations of the EnviroCom's malfunctioning.
3. Call Best Power's Worldwide Service at 1-800-356-5737 or 1-608-565-2100 if any instructions are not clear or if you have any questions.

If the unit must be sent to us for servicing, 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 unit into its original container or a sturdy shipping box. Be certain to use sufficient cushioning material to avoid damage in transit.
3. Call Best Power for instructions before returning a unit or component. Address package to:

Worldwide Service
Best Power
N9246 Highway 80 S
Necedah, WI 54646

Warranty

LIMITED TWO YEAR WARRANTY Standard Warranty For All Purchases

BEST POWER, a division of General Signal Power Systems, Inc. (hereinafter called BEST POWER) warrants that each product sold by BEST POWER is compatible with existing commercially available computer equipment with enclosed power supplies and is free from defects in materials and workmanship under normal use and service. This warranty is applicable only to the initial retail purchaser (PURCHASER), and is not transferable. The duration of this warranty is two (2) years from the date of the first retail sale or the date of delivery to the PURCHASER, whichever occurs first, subject to the following conditions.

If the PURCHASER discovers within the duration of this warranty a failure of the product to perform compatibly with presently existing computer equipment or a defect in material or workmanship, the PURCHASER must promptly notify BEST POWER in writing within the duration of the warranty or not later than one month after expiration of the warranty. BEST POWER's obligation under this warranty is limited to the replacement or repair, subject to the conditions specified below, of such product returned intact to BEST POWER which shall appear to BEST POWER, upon inspection, to have been either incompatible or defective. Replacement or repair will be made at BEST POWER's Worldwide Service, Highway 80, Necedah, Wisconsin 54646, U.S.A. Such repair or replacement shall be at BEST POWER's expense. This warranty does not cover any taxes which may be due in connection with replacement or repair, nor any installation, removal, transportation or postage costs. These expenses will be paid by PURCHASER. If BEST POWER is unable to repair or replace the product to conform to this warranty after a reasonable number of attempts, BEST POWER will refund the purchase price. Remedies under this warranty are expressly limited to those specified above.

TO THE EXTENT ALLOWED BY LAW, BEST DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, AND ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THIS PRODUCT IS LIMITED IN DURATION TO THE DURATION OF THIS WARRANTY. TO THE EXTENT ALLOWED BY LAW, BEST POWER SHALL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES INCLUDING, BUT NOT LIMITED TO, LOSS OF PROFITS, INJURIES TO PROPERTY, LOSS OF USE OF THE PRODUCT OR ANY ASSOCIATED EQUIPMENT.

Some states do not allow limitations on how long an implied warranty lasts, so that the above limitation on duration of implied warranties may not apply to you. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. You are advised to consult applicable state laws.

No warranty is made with respect to other products sold by BEST POWER which do not bear the name BEST POWER, and no recommendation of such other product shall imply or constitute any warranty with respect to them. This warranty does not cover repair or replacement because of damage from unreasonable use (for example only, damage from road hazard, accident, fire or other casualty, misuse, negligence, or incorrect wiring) and any use or installation not in conformance with instructions furnished by BEST POWER, or repairs or replacements needed because of modifications or parts not authorized or supplied by BEST POWER.