

Power Guard

Model VM500-9

Operating Manual and Installation Instructions

Power Guard Description

The Power Guard monitors the power wherever it is plugged in and it dials the programmed emergency phone numbers when the power goes out for more than the programmed power outage delay time and/or power has been restored for longer than the power restoration delay time.

With the Power Guard you can define exactly when it will call and let you know when the power goes off and when the power is restored, thus eliminating nuisance phone calls. On page 10 is a timing diagram that explains this capability in more detail.

Programming Overview

Programming the Power Guard is accomplished over the phone and only has to be done once, unless it is necessary to make a change. Before programming, do the following:

- 1 Connect the Power Guard to **an analog phone line**, plug in the power pack to an outlet, and connect the power jack. **Use of a phone and power line surge suppressor is strongly recommended.** Turn the unit on by moving the power switch from the position labeled 0 (off) to the position labeled 1 (on).
- 2 From another phone line dial the number where the Power Guard is located. The Power Guard will pick up after the first ring.
- 3 The Power Guard prompts for the 4-digit PIN number. **Enter the factory default PIN number, 0000.**
- 4 You will hear the Main Menu options. You may enter your selection at any time.

The Main Menu options are:

1. Status
 2. Set Limits
 3. Program
 0. Hang Up
- 5 To access the Program Menu:
From the Main Menu, press 3
- The Program Menu options are:**
- 1 Primary Number
 - 2 Secondary Number
 - 3 Third Number

- 4 Fourth Number
- 5 Local ID
- 6 Record a Personal Identification Message
- 7 Number of Rings
- 8 Change PIN number
- 0. Exit (return to Main Menu)

Programming Power Outage Time Delays

The Power Guard has three programmable time delays to control when it makes alarm telephone calls.

1) The **Power Loss Time Delay** is the amount of time (in minutes) that the power must be out before alarm telephone calls are made. (default 5 minutes)

2) The **Power Restored Time Delay** is the amount of time (in minutes) the power must be restored for before making alarm telephone calls. (default 0 minutes for immediate notification of power restoration)

3) The **Power Off Time Delay** is the amount of time (in minutes) that the power must be out before the “power has been restored” telephone calls are made. (The default is 0 minutes, to enable the “power has been restored” telephone calls to be made.)

- 1 From the Main Menu, press 2 to Set Limits
- 2 You will hear the current power loss time delay (i.e. “*power loss time delay is 5 minutes*”)
 - ▶ If the power loss alarm has been disabled you will hear “power loss alarm is off”
- 3 You will hear “*Press 1 to change*”
- 4 Press **1** to make a change or any other button to skip to step 8
- 5 You will hear “*Enter number then press pound*”
- 6 Enter the time in minutes, then press **#**
 - ▶ Valid time delay range is 0 to 998 minutes
 - ▶ Enter a time delay of 999 to disable the alarm
- 7 You will hear the value you just entered (i.e. *10 minutes*)
- 8 You will hear the current power restored time delay (i.e. “*power restored time delay is 0 minutes*”)
 - ▶ If the power restored alarm has been disabled you will hear “power restored alarm is off”
- 9 You will hear “*Press 1 to change*”
- 10 Press **1** to make a change or any other button to skip to step 8
- 11 You will hear “*Enter number then press pound*”

- 12 Enter the time in minutes, then press #
 - ▶ Valid time delay range is 0 to 998 minutes
 - ▶ Enter a time delay of 999 to disable the alarm
- 13 You will hear the value you just entered (i.e. *10 minutes*)
- 14 If the power restored alarm is enabled, you will hear the current power off time delay (i.e. *"power off time delay is 0 minutes"*)
- 15 You will hear *"Press 1 to change"*
- 16 Press **1** to make a change or any other button to return to the Main Menu
- 17 You will hear *"Enter number then press pound"*
- 18 Enter the time in minutes, then press #
 - ▶ Valid time delay range is 0 to 999 minutes
- 19 You will hear the value you just entered (i.e. *5 minutes*)
- 20 You will be returned to the Main Menu

Programming Telephone Numbers

The monitor will call each programmed phone number until someone enters the PIN number. If the monitor reaches an answering machine, it will leave the personal identification message, and then the alarm condition, but will continue calling.

- 1 From the Program Menu, Select **1** for the primary number, **2** for the secondary number, **3** for the third number, or **4** for the fourth number.
- 2 You will hear *"Enter number then press pound."*
 - ▶ If have already programmed this number, You will hear the telephone number for the selected recipient You will hear *"Press one to change"* Press **1** to make a change or any other button to return to the Program Menu
- 3 Enter the full phone number followed by the # key.
 - ▶ For pager numbers, enter * as the first digit of the number
 - ▶ Enter the full telephone number (**1 + area code if necessary**)
 - ▶ If an extra delay between digits or after dialing is required, entering * will provide a two second delay. Do not enter * for the first digit unless programming a pager number.
 - ▶ Entering only the # key will erase the currently programmed contact telephone number.
- 4 You will hear the number you just entered.
- 5 You will be automatically returned to the Program Menu.

Programming a Local Identification Number For Pagers

The local identification number is printed on the display of a pager when the Power Guard calls a pager number. This number can be up to 20 digits long.

- 1 From the Program Menu, press **5** for the local ID
- 2 If this is the first time setup, go to step 6
- 3 You will hear the programmed number
- 4 You will hear *"Press one to change"*
- 5 Press **1** if you wish to make a change or press any other button to return to the Program Menu
- 6 You will hear *"Enter number, then press pound"*
- 7 Enter the number, followed by a **#**
- 8 You will hear the number you just entered.
- 9 You will be automatically returned to the Program Menu

Recording a Personal Identification Message

When the monitor calls out, it will first play the recorded personal identification message. The message can be up to 10 seconds in length.

- 1 From the Program Menu, press **6**
- 2 If this is the first time recording a message, you will not hear anything. Go to step 4
- 3 You will hear the recorded message
- 4 You will hear *"Press one to change"*
- 5 Press **1** if you wish to make a change or press any other button to return to the Program Menu
- 6 If you press **1** you will hear a tone
- 7 Begin speaking after the tone. The Power Guard will record for up to 10 seconds.
- 8 After you are done recording, press any key to mark the end of your message.
- 9 You will hear the message you recorded.
- 10 You will be automatically returned to the Program Menu

Programming the Number of Rings

The monitor answers the telephone line after the programmed number of rings. Valid numbers of rings are 1 – 25.

- 1 From the Program Menu, press **7** to set the number of rings
- 2 You will hear the programmed number of rings
- 3 You will hear *"Press one to change."*

- 4 Press **1** if you wish to make a change or press any other button to return to the Program Menu
- 5 You will hear "*Enter number then press pound*"
- 6 Enter the number of rings, then press **#**
- 7 You will hear the number of rings you entered
- 8 You will be automatically returned to the Program Menu

Programming Your PIN Number

The monitor has a programmable 4-digit PIN number (0000-9999) to access the program menu, and to stop the monitor from making emergency phone calls. The PIN number must be 4 digits and must not include a # sign.

My PIN Number is _____

- 1 From the Program Menu, press **8** to change the PIN number
- 2 You will hear the PIN number (factory default is 0000)
- 3 You will hear "*Press one to change.*"
- 4 Press **1** if you wish to make a change or press any other button to return to the Program Menu
- 5 You will hear "*Enter number*"
- 6 Enter a four digit number (do not put a # anywhere in your pin number)
- 7 You will hear the PIN number you just entered
- 8 You will be automatically returned to the Program Menu

What happens when the Monitor calls?

- 1 The monitor will play the personal identification message, followed by the cause of the alarm.
You will hear either "Warning, power has been out for xx minutes" or "Warning, the power was out for xx minutes. Power has been restored."
- 2 The monitor will ask for the PIN number
- 3 Once the PIN number has been entered, the monitor will not call again because the current alarm condition has been acknowledged.
- 4 If the PIN is not entered, the Monitor will repeat the sequence one time.

What happens if I call the Monitor while an alarm condi-

tion exists?

- 1 You will hear either "Warning, power has been out for" or "Warning, the power was off. Power has been restored."
- 2 You will hear "Enter your PIN number"
- 3 If the PIN number is entered, the monitor will stop making emergency phone calls.
- 4 If the PIN number is not entered, the monitor continues dialing the emergency phone numbers.

What happens when the Power Guard calls a pager?

- 1 The Power Guard will print the Local Identification number
- 2 The Power Guard will print the power status. Two 1's for power on and two 0's for power off.

Example, if you saw 1234**00** on the pager's display, 1234 is the user ID and the last two 0's indicates power is off.

The Power Guard will continue to call the pager and any other programmed phone numbers until either:

- The alarm condition goes away OR
- The Power Guard is called and the PIN number is entered
- The Power Guard calls a voice number and contacts a person who enters the PIN number.

Reading the power status from the blinking light

The Power Guard will blink the light to indicate one of four different states.

The normal power state is indicated by the light blinking on at a rate of once per second.

The power loss state is indicated by the light blinking on at a rate of once every 15 seconds.

The power restored state (before the power restored time delay has been exceeded) is indicated by the light blinking off at a rate of once per second.

The power restored alarm state (after the power restored time delay has been exceeded) is indicated by rapid blinking on at a rate of four times per second.

Connecting the Monitor to a Phone Line which has a fax or

answering machine connected to it

Program the monitor to answer after one more ring than the other device on the line. This allows the other device to always answer first.

To call and access the monitor

- 1 Dial the phone number
- 2 Hang up one ring before the other device answers.
- 3 Wait no longer than 30 seconds, then dial the number again.
- 4 The monitor will answer.

Example: An answering or fax machine on the same line as the monitor and is set to answer after 4 rings.

Program the monitor to answer after 5 rings.

To access the monitor, dial the number, let it ring three times, then hang up. Wait 30 seconds and call again. After two rings, the monitor will answer.

Verifying that the Monitor works with your phone line

To verify that the monitor works with your phone line, perform the following test.

- 1 Using another phone line, call the monitor and verify that it answers the phone
- 2 Enter #999 as the PIN number.
- 3 Hang up after the unit plays "Goodbye"
- 4 The unit will call all of the programmed telephone numbers.
Do not enter the PIN during this process of the unit will stop calling out.

If the Monitor does not answer the phone

Verify that the phone line is working. Connect a phone to the line intended for the monitor. Verify that there is a dial tone. Check that the phone line is plugged in securely. Verify that the monitor is powered up and the status light is blinking.

If the Monitor does not call out

Verify that the phone line is good. Connect a phone to the line intended for the monitor. Verify that there is a dial tone.

Check that the phone line is plugged in securely

Verify that the monitor is powered up and the status light is blinking

Verify that the monitor is programmed correctly. Call up the monitor and verify the programmed phone numbers and temperature limits.

Emergency Phone Call Sequence

All phone numbers are called. If the PIN number is not entered, the monitor will wait 20 minutes and then begin calling all phone number again.

Some Helpful TIPS

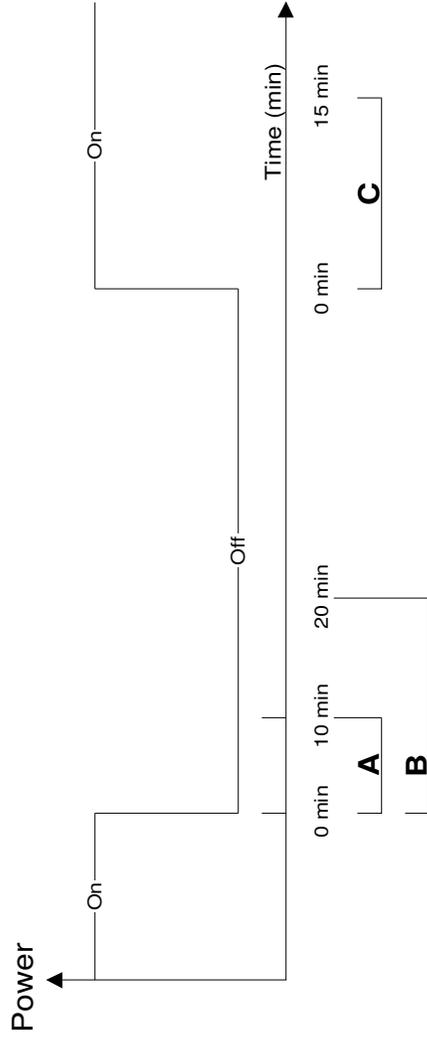
Include all necessary digits for phone numbers. Long distance numbers must include 1 and the area code.

To monitor the power status of specific devices; connect the Power Guard's power plug into the same power source as the device you wish to monitor. It is possible for an isolated power outlet to lose power.

If the Power Guard is having trouble receiving your programming entries, try holding the button for a longer amount of time.

Technical Support Phone Number

1-860-829-2710 8:30 a.m. to 4:30 p.m. EST.



A **Power Loss Time Delay** is the amount of time that the power must be off before the Power Guard starts to make alarm phone calls. In this example the Power Guard will call after the power has been off for ten minutes.

If you do not wish to receive alarm phone calls when the power is off, set this variable to 999.

B **Power Off Time Delay** is the amount of time that the power must be off before the Power Guard will make the "power has been restored" phone calls. In this case the power must be off for 20 minutes before the Power Guard will make the "power has been restored" phone calls.

The default is zero minutes, so that anytime there is a power failure, the Power Guard will call when the power is restored, unless Power Restored Time Delay is disabled (999)

C **Power Restored Time Delay** is the amount of time that the power must be back on before the Power Guard will make "power has been restored" phone calls. In this case the power must be on for 15 minutes before the Power Guard will make the "power has been restored" phone calls.

If you do not wish to receive the "power has been restored" phone calls, set this variable to 999.

Note: all time delays are programmed in minutes

FCC PART 68 INFORMATION

This equipment complies with Part 68 of the FCC Rules. The FCC Part 68 Label is located on the bottom of the unit. This label contains the FCC Registration Number and Ringer Equivalence Number (REN) for this equipment. If requested, this information must be provided to your telephone company.

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

Connection to the telephone network should be made by using standard modular telephone jacks, type RJ11. The plug and/or jacks used must comply with FCC Part 68 rules. If this telephone equipment causes harm to the telephone network, the telephone company will notify you in advance that temporary discontinuance of service may be required. But if advance notice isn't practical, the telephone company will notify the customer as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if you believe it is necessary.

The telephone company may make changes in its facilities, equipment, operations or procedures that could affect the proper functioning of your equipment. If they do, you will be notified in advance in order for you to make necessary modifications to maintain uninterrupted service.

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

If trouble is experienced with this unit, for repair or warranty information, please contact customer service at the address and phone listed below. If the equipment is causing harm to the network, the telephone company may request that you disconnect the equipment until the problem is resolved.

DO NOT DISASSEMBLE THIS EQUIPMENT. It does not contain any user serviceable components.

Attn.: CUSTOMER SERVICE DEPT.
Microtechnologies, Inc.
123 Whiting St Unit 1A
Plainville, CT 06062
860-747-6004

Limited Warranty:

1. Warrantor: Dealer, Distributor, Retailer, and Manufacturer

2. Warranty and Remedy

We believe that this is a high quality product. Although we test all products for proper functionality, we cannot guaranty that there will never be a defective unit, or that a unit will function on every phone line and all communication equipment in existence. For this reason, 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.** If this warranty is unacceptable please return the unused Product for a full refund.

One Year Limited Warranty - Microtechnologies, Inc. warrants its products to be free from defects in material and workmanship under normal use for one year, and is not responsible for consequential damage or installation costs of any nature. In event that the Product does not conform to this Warranty at any time during the period of one year from original purchase date, Warrantor will repair the defect and return it to you at no charge. **Important: The Warranty is limited to replacement of the Product ONLY.** Secondly, because every phone line differs, we strongly encourage you to test this Product in its actual application. This should include a full test, involving the Product actually dialing to its designated location and someone verifying the proper response.

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

WARRANTORS' OBLIGATION UNDER THIS WARRANTY IS LIMITED TO REPAIR OR REPLACEMENT OF THE PRODUCT ONLY. THIS WARRANTY DOES NOT COVER PAYMENT OR PROVIDE FOR THE REIMBURSEMENT OF PAYMENT FOR 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 or use of this Product, or its failure to operate in the manner in which it is designed. The Warrantor's liability, if any, shall be limited to the original cost of the Product only. Use of this Product is at your own risk.

3. Procedures for obtaining performance for 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. If in any way you are not comfortable with the product or its Limited Warranty, we encourage you to return it unused for a full refund.

Temperature Guard

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