

General Description

The VD-5100-TM (Fahrenheit) and VD-5101-TM (Celsius) Voice Dialer monitors temperature and power status. Upon an alarm condition, the Voice Dialer automatically dials three phone numbers with a voice message. Current temperature and alarm status can be checked from a remote location.

Applications

Applications include remote temperature and electrical power monitoring of refrigeration, heating and air conditioning equipment for buildings (homes, cabins and commercial buildings).

Features

- Adjustable temperature alarm setpoint with call out
- Power loss call out alarm
- Three telephone number call out, up to 16 digits each
- Remote access to programming menu and current condition status
- Low battery call out alarm
- Battery back-up (9 volt-not included)
- Location identification
- Selectable 15 minute or 2 hour call out interval
- Selectable 10 or 2 ring call out
- Security coded access to programming menu
- Dials out in pulse
- LED status indicators
- Phone line status check

Specifications

Power requirements: 12 VDC (110 VAC/12 VDC plug-in wall transformer with six foot long cord included)

Sensor: Semi-conductor sensor with 1.75" x .25" nickel plated copper cap and three foot cord

Operating range of sensor: -40° to 199°F (-40° to 93°C)

Phone cord: 7 feet long

Accuracy: $\pm 2^{\circ}\text{F}$ ($\pm 2^{\circ}\text{C}$)

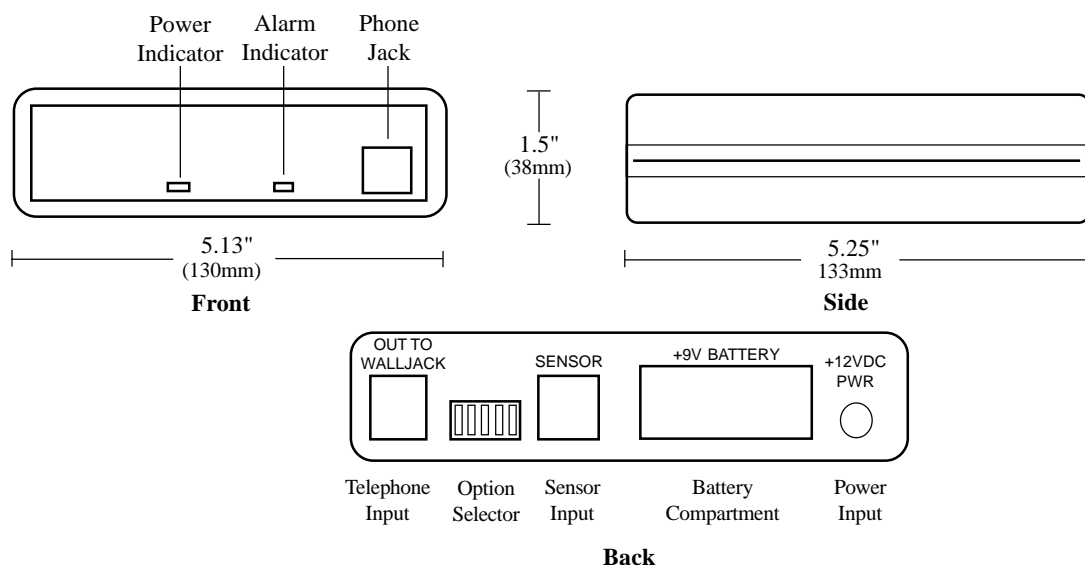
Ambient temperature range: 32° to 140°F (0° to 60°C)

Humidity: 90% non-condensing

Weight: 2.0 pounds (0.91kg)

Voice Dialer Temperature & Power Loss Monitor VD-5100-TM / VD-5101-TM

Dimensions



Installation

IMPORTANT: It is critical that the Voice Dialer be tested at the location of actual use since local telephone lines and systems vary and may affect performance (please see warranty).

1. Before starting, please read **Warranty** on last page for important information.
2. Connect transformer adapter plug to +12VDC port on back of unit.
3. Connect sensor to sensor port on back of unit.
4. Select and set dip switch options on back of unit – see Dip Switch Table.
5. Plug transformer into 110 VAC wall outlet.
6. Install 9 volt alkaline battery (not included) in back of unit.
7. Plug any standard Touch Tone™ telephone into the PHONE receiver port located on the front panel Voice Dialer.
8. Follow procedure in **Programming** section described below.
9. After programming is complete, connect one end of the phone cord to the OUT TO WALL JACK port on the back of the unit, and the other end to a standard telephone jack. Disconnect telephone from the front port of the Voice Dialer.

Programming Instructions

The Voice Dialer is programmed by following a series of menu driven voice commands and can be re-programmed remotely or locally from any Touch Tone™ telephone.

MENU DESCRIPTIONS

CALL OUT TELEPHONE NUMBERS:	Follow verbal prompts to enter call-out telephone numbers. You may enter the same number more than once, or enter the star (*) key to leave an entry blank (no number). Pressing the pound (#) key will place a 5 second pause between digits. Do not place pauses at end of telephone number(s).
CURRENT TEMPERATURE:	Reports the current temperature of the sensor.
TEMPERATURE ALARM SETPOINT:	The setpoint is the temperature at which the Voice Dialer will initiate an alarm call to your programmed telephone numbers. The setpoint is factory set to activate below -40°. Follow verbal prompts to change the setpoint. The setpoint must be more or less than ten degrees from room temperature.
SECURITY CODE:	The security code is factory set at "999". Follow verbal prompts to change security code. The security code can also be used as a location ID code.
BATTERY STATUS:	Low battery alarm will occur at 7 volts. Important: Battery should be replaced annually, or when power drops to 7 volts or below. Unplug battery when unit is not in service.
POWER STATUS:	Unit will report that the " <i>power is off</i> " in the event of an electrical power failure.

The following data must be programmed into the Voice Dialer:

- A. TEMPERATURE ALARM SETPOINT – temperature at which an alarm call-out will be initiated (rise or fall).
- B. CALL OUT TELEPHONE NUMBERS – three telephone numbers to be called in succession during an alarm condition.
- C. SECURITY/LOCATION CODE – three-digit code used to gain access to main menu or disable unit and can also be used to identify location.

After connecting a Touch Tone™ telephone to the front receiver port, lift phone receiver and follow the voice driven menu. The Voice Dialer prompt will say:

"You are now in the main menu:"

"To review or program call out telephone number one, press 1."

"To review or program call out telephone number two, press 2."

"To review or program call out telephone number three, press 3."

"For current temperature, press 4."

"To review or program temperature alarm setpoint, press 5."

"To review or program security code, press 6."

"For battery status, press 7."

"For power status, press 8."

If the Voice Dialer does not recognize an entry, you will hear "invalid entry". Re-enter your menu selection within 15 seconds to continue with the programming sequence.

IMPORTANT: After programming, disconnect your telephone from the PHONE receiver port on the front of the Voice Dialer. The phone cannot be used for outgoing phone calls while connected to the Voice Dialer.

Operating Instructions

UPON ALARM

The Voice Dialer will call out with one or more of the following messages:

"There is a temperature alarm emergency at location (your three digit security/location code). Help is needed immediately!"

AND/OR

"There is a power alarm emergency at location (your three digit security/location code). Help is needed immediately!"

AND/OR

"There is a battery alarm emergency at location (your three digit security/location code). Help is needed immediately!"

The alarm message(s) is repeated once, followed by:

"To disable call out, enter security code followed by star key."

You must enter the correct security code within 15 seconds or the Voice Dialer will hang up and call again in the selected interval (15 minutes or 2 hours). If you enter the correct security code within 15 seconds you will hear:

"Call-out is now disabled. To return to main menu, press 1, otherwise hang up."

You now have the option of returning to the main menu to review or change the system data.

IMPORTANT: The Voice Dialer will continue to call out with an alarm message until disabled, even if alarm conditions have been corrected.

CALLING THE VOICE DIALER FROM A REMOTE LOCATION

When called from a remote location, the Voice Dialer will answer after five rings and you will hear:

"Enter security code followed by the star key."

If you enter the correct security code within 15 seconds, and the Voice Dialer is not in alarm, you will enter the main menu and hear:

"You are now in the main menu. (no alarm) Press 1 to. . ."

If the Voice Dialer is in alarm, you will hear one of the three alarm messages described in

Operating Instructions above. The alarm message is repeated once, followed by:

"To disable call out, press 0. Otherwise, to return to the main menu, press 1."

For information on compatibility with answering machines, see "IMPORTANT INFORMATION" section.

IMPORTANT INFORMATION

Alarm delay feature:

If dip switch #2 is placed in the DOWN position, the Voice Dialer will delay 45 minutes during a temperature alarm only. A temperature alarm condition must be present for 45 minutes before unit will call out.

Power alarm delay feature: Power must be absent for 4 consecutive minutes before power loss alarm will occur.

Battery alarm delay feature: Battery must be low or absent for 4 minutes before alarm will occur.

Using Voice Dialer on the same phone line as telephone: The Voice Dialer does not require a dedicated phone line and can share the same jack with a telephone by using a dual plug adapter (not included). Caution: The Voice Dialer may not work on a PBX or multi-line systems or a party line.

Phone answering machines at the occupied (call to) location: To avoid unwanted long distance phone charges between the Voice Dialer and a remote answering machine, set your answering machine to pick up after four rings and move dip switch #3 on the rear of the Voice Dialer to the DOWN position. This will cause the Voice Dialer to hang up after two rings, preventing the answering machine from picking up the alarm call. **Caution: Because of normal connection delays in long distance calls, the Voice Dialer may hang up before two rings are heard at call-to location(s). Test thoroughly. If dip switch #3 is in the UP position, the Voice Dialer will hang up after ten rings.** Depending on the length of your greeting, the answering machine may record a portion of the alarm message.

Phone answering machines at the same location as the Voice Dialer: An answering machine normally will pick up a call before the Voice Dialer. To gain access to the Voice Dialer when used with an answering machine, set the answering machine's ring selector at four. Call the Voice Dialer's phone number and hang up before the answering machine answers. Wait two minutes, call again, and then the Voice Dialer will pick up your call.

Monitoring multiple Voice Dialers using identification numbers: Upon alarm, the Voice Dialer calls its programmed telephone numbers and announces the location of the alarm, using the SECURITY CODE as a location identification number. This enables you to identify and monitor up to 1000 Voice Dialer locations.

Dip switch table: Factory settings are indicated in **BOLD TYPE**.

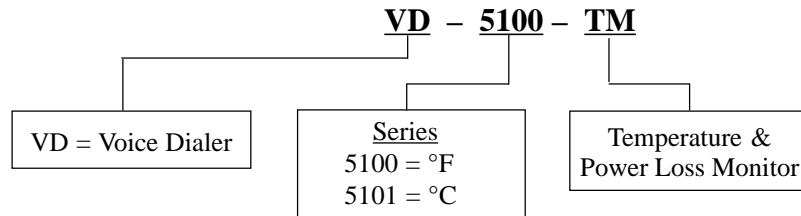
Switch #	Function	Settings	
1	Factory use only	UP = off	DOWN
2	45 minute delay for temperature alarm call out	UP = no delay	DOWN = delay
3	Select between 10 or 2 ring call-out	UP = 10	DOWN = 2
4	Select for alarm on temperature fall or rise	UP = rise	DOWN = fall
5	Select 15 minute or 2 hour call out frequency	UP = 15 min	DOWN = 2 hrs

Troubleshooting

<u>Problem</u>	<u>Solution</u>
1. Unit does not function	Check power supply and phone line service.
2. Phone does not ring at "call-to" location	Review telephone number and re-program. Place Switch #3 in "UP" position.
3. Cannot access Voice Dialer (same location)	Make sure Touch Tone™ telephone is plugged into front face plate. Try another phone.
4. Cannot access Voice Dialer (remote location)	Make sure Touch Tone™ telephone is being used. Check Voice Dialer power and telephone connections. Try another phone. Verify security code.
5. Receiving false alarms	Do not place temperature sensor near heat vents, drafts, or other areas that do not represent the internal temperature being monitored. Raise or lower thermostat accordingly. Check rise and fall switch on back of unit to verify correct position.
6. Temperature reading -40°	Check sensor connection to correct jack.

Ordering Information

Please use the following example when ordering:



Other models are available: VD-5100-SM System Monitor and VD-5300-MCS Monitoring Control System.

Custom Design & Modifications

In addition to standard models, Control Products specializes in complete custom design of electronic controls. Modifications of our standard controls are also available. Please consult factory for more information.

IMPORTANT

Limited Warranty

We believe this is a very fine product. Over the years, we have received many calls and letters from folks with thanks and stories on how our product alerted them to a potentially costly freeze-up. We have also heard from a few unhappy folks complaining that this product did not alert them during a freeze-up. Although we take extreme pride in producing and testing a product that will function properly, we cannot guaranty that there will never be a defective unit, or that a unit will function on all of the thousands of phone lines and 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 you are not comfortable with our Limited Warranty, or completely satisfied with the Product, we encourage you to return the unused Product for a full refund. Thank you for your understanding.

One Year Limited Warranty - Control Products, 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 damages or installation costs of any nature. In the 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 stongly encourage you to fully 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 Warrantors' 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 return it unused.**