



VENT-MISER™ PROGRAMMABLE ENERGY SAVING VENT

Installation and User Guide

LIMITED WARRANTY

Springfield warrants this product to be free from defects in workmanship or material for a period of one year from the date of purchase. **ALL IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO WARRANTIES OF FITNESS AND MERCHANTABILITY ARE HEREBY LIMITED IN DURATION TO A PERIOD ENDING ONE YEAR FROM THE DATE OF PURCHASE.** Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. This warranty gives you specific legal rights, which vary, from state to state. During the warranty period, such defects will be repaired or the defective instrument will be replaced at our option. This warranty does not cover damages through accident or misuse. **IN ADDITION, SPRINGFIELD IS NOT RESPONSIBLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES INCURRED AS A RESULT OF DEFECT.** Repair or replacement will be made at our option without additional charge if the instrument is returned postpaid with \$3.00 for return postage and handling to;
Springfield Precision Instruments, Inc. 76 Passaic Street, Wood-Ridge, NJ 07075.

FEATURES AND SPECIFICATIONS

- Digital LCD display with backlight
- Removable timer module for easy programming and battery installation
- 2 open / close cycles for weekdays
- 2 open / close cycles for Saturday and Sunday
- Manual program override and program suspend features
- Audible low battery alarm
- Low battery icon on LCD display
- Uses (2) AAA batteries

INTRODUCTION

Your new Springfield VENT-MISER™ is an energy and money saving device. It is a stand alone unit and is a direct replacement for your existing register vent. The unit is battery powered and has no interface or connection with your heating or air conditioning system.

The unit's integrated timer control module can be programmed to shut off air flow to unoccupied areas of your home during pre-selected hours. If used as directed, use of the unit may reduce your home heating and cooling costs up to 33%. Actual cost savings may vary based on a variety of factors, including geographic region and weather conditions, usage, thermostat settings, efficiency of your heating or cooling system, the energy efficiency of your home, consumption of fuel by other sources such as hot water heaters and general home electricity use.

IMPORTANT NOTES

- This unit is designed to open and close the vent louvers automatically according to the schedule you program. If you need to override your program to open or close the louvers, refer to the *Temporary Override of the Timer Control Module Settings* section of this instruction manual and follow the procedure.
- Be sure to use good quality alkaline batteries. When the batteries are running low the 'low battery icon' will show on the LCD display and there will be an audible signal every 40 seconds.
- This unit is not designed for commercial use.
- When installing the VENT-MISER™, do not force the unit into place. Be sure that there is adequate clearance inside your ductwork so the unit seats properly and the plastic louvers can open and close freely.
- The timer control module and plastic louvers must be kept free of dust, dirt and any obstructions. If the louvers cannot open and close freely, the electric motor will be damaged and the unit will not function.
- Do not install the VENT-MISER™ in a room where your main heating or cooling thermostat is located.
- For proper airflow, your main heating and cooling units need 60% of the total register vents open when the system is operating. A VENT-MISER™ can be installed in multiple locations in your home, but you must count the air registers in your home and program them so that a minimum of 60% of all vents in the home are open when the heating or cooling system is running.
- To maximize your energy savings, your ductwork and heating and cooling units must be properly maintained and functioning normally. If used as directed, the re-distribution of air through the use of the VENT-MISER™ will have no negative effect on your heating and cooling systems.
- In areas of your home that may be subject to temperature extremes such as basements or garages, make sure that use of the VENT-MISER™ will not cause problems such as freezing of water pipes.
- Note that even when closed the VENT-MISER™ will allow air seepage.

INSTALLATION OF THE VENT-MISER™

- If your heating or air conditioning system is running, temporarily shut off the main unit during installation of the register vent.
- If your existing unit mounts on the floor and does not require mounting screws, simply remove the old vent and replace with your Springfield programmable vent.
- If your existing unit mounts on the wall or ceiling and uses mounting screws, back out the screws and remove the old register vent.
- Carefully remove (2) plastic plugs from the mounting holes of the new unit, making sure you don't damage the front surface of the metal grill. Push the plastic plugs out from the back of the unit, squeezing the locking flange in the back of the plug if necessary.
- Install your new VENT-MISER™ vent using the screws provided, or re-use the existing screws. When installed, the timer module should be on the right side of the unit.
- Follow the **BATTERY INSTALLATION** and **PROGRAMMING THE TIMER CONTROL MODULE** instructions, below.
- After installation and programming, if you have shut off the main heating or air conditioning unit, turn it back on.

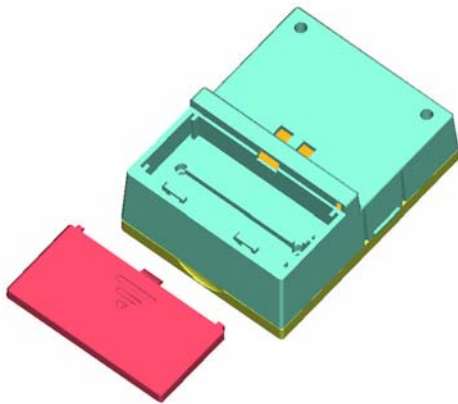
BATTERY INSTALLATION

Note: If you have already programmed your open and close times and are replacing the batteries, remember that all data will be lost after you remove the old batteries from the module. Prior to removing the batteries, be sure to write down your program times for easy re-entry.

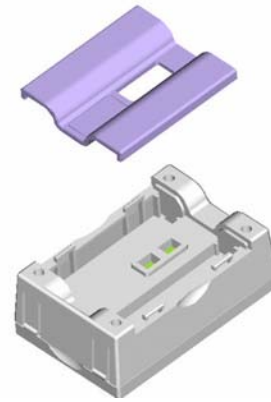
- Using the finger holes at the top and bottom of the timer control module, pull the module from the register vent.



- Open the battery compartment at the back of the unit. See illustrations below for Version A (4" or larger vents) or Version B (2" vents).



Version A battery compartment opening

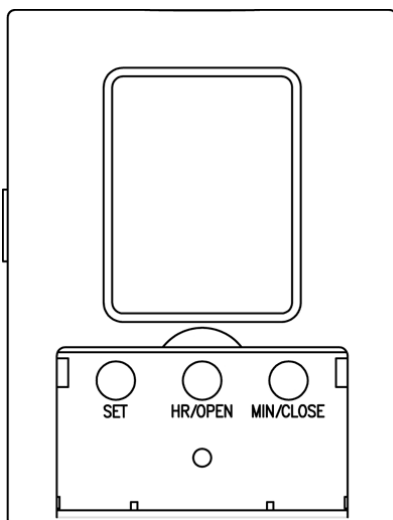


Version B battery compartment opening

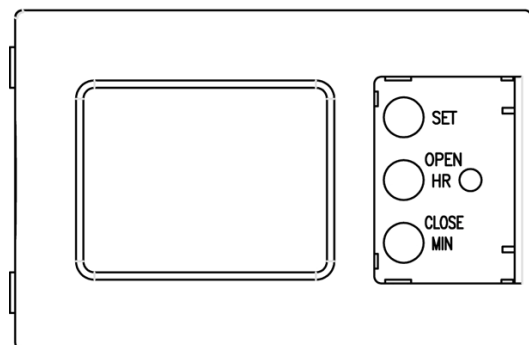
- Insert (2) AAA batteries according to the polarity markings.
- Replace the battery compartment door.
- After following the **PROGRAMMING THE TIMER CONTROL MODULE** instructions, re-insert the module into the register vent, making sure it snaps securely into place. When doing so, do not push on the LCD screen or the button door in the front of the module.

PROGRAMMING THE TIMER CONTROL MODULE

- You can program your timer control module for up to 2 open and close cycles per day. The same program schedule is repeated daily from Monday through Friday and a different program schedule can be used for Saturday and Sunday.
- After you have installed the batteries, you will see pre-programmed default times for both weekday and weekend cycles of; Cycle 1 close 9:30PM, Cycle 1 open 6:00AM, Cycle 2 disabled.
- The backlight will come on when any button is pressed. It will turn off automatically if no button is pressed within 20 seconds.
- See the timer control module illustrations below for Version A (4" or larger vents) or Version B (2" vents). The programming procedure is the same for both versions.
- When programming the module, press and hold the HR/OPEN and MIN/CLOSE buttons for fast setting.



Version A programming button configuration



Version B programming button configuration

Setting the Clock

- 1) Open the hinged door on the front of the timer control module.
- 2) Press the SET button and 12 Hr will be flashing.
- 3) Press HR or MIN to select 12 or 24 hour timing format.
- 4) Press SET and the current time will be flashing.
- 5) Press HR and MIN to set the current time.
- 6) Press SET and the day will be flashing.
- 7) Press HR or MIN to set the current day.
- 8) Press SET to lock in the settings and return to normal mode.

Programming the Vent Open and Close Times

- Your unit is capable of performing 2 open and close cycles per day, but you may choose to use only one cycle per day. After battery installation, Cycle 2 is disabled by default. If you do not want a second weekday or weekend cycle, do not enter times for cycle 2 and the program will automatically cycle only once per day.
- There are several steps to follow to complete the programming process. To avoid confusion as you complete your programming, it may be helpful for you to think about your desired open / close cycle times and write them in the following table prior to starting the process.

	Cycle 1		Cycle 2	
Weekday Cycles	Close	Open	Close	Open
	Cycle 1		Cycle 2	
Weekend Cycles	Close	Open	Close	Open

- 1) Press and hold the SET button for 2-3 seconds and the *close time* will be flashing. (CYCLE TIME 1 and M T W T H F will show on the display).
- 2) Press HR and MIN to set your desired *close time* (weekday cycle 1).
- 3) Press SET and the *open time* will be flashing. (CYCLE TIME 1 will show on the display).
- 4) Press HR and MIN to set your desired *open time* (weekday cycle 1).
- 5) Press SET to program weekday cycle 2 and the *close time* will be flashing. (CYCLE TIME 2 will show on the display). **If you do not want to program a second weekday cycle, press SET again and skip to step 10) to set your weekend cycle.**
- 6) Press HR and MIN to set your desired *close time* (weekday cycle 2).
- 7) Press SET and the *open time* will be flashing. (CYCLE TIME 2 will show on the display).
- 8) Press HR and MIN to set your desired open time (weekday cycle 2).
- 9) Press SET and the *close time* will be flashing. (CYCLE TIME 1 and S, SU will show on the display)
- 10) Press HR and MIN to set your desired close time (weekend cycle 1).
- 11) Press SET and the *open time* will be flashing. (CYCLE TIME 1 will show on the display).
- 12) Press HR and MIN to set your desired open time (weekend cycle 1).
- 13) Press SET to program weekend cycle 2 and the *close time* will be flashing. (CYCLE TIME 2 will show on the display). **If you do not want to program a second weekend cycle, press SET again and your programming is complete. If you want to program a second weekend cycle, continue to step 14).**
- 14) Press HR and MIN to set your desired *close time* (weekend cycle 2).
- 15) Press SET and *open time* will be flashing. (CYCLE TIME 2 will show on the display).
- 16) Press HR and MIN to set your desired *open time* (weekend cycle 2).
- 17) Press SET to complete your programming.
- 18) Re-insert the timer control module into the register vent, making sure it snaps securely into place.

View Your Timer Settings

If you have programmed open and close times for both Cycle 1 and Cycle 2, your LCD display will alternately display your Cycle 1 and Cycle 2 programmed times every 10 seconds. If you have not programmed Cycle 2, the Cycle 1 program times will remain on the display.

If you want to view the cycle times for the program you are not in currently (example: it is a weekday and you want to view your weekend open and close times);

- Press and hold the SET button for 2-3 seconds until the close time is flashing.
- Press the SET button to scroll through and view your programmed open and close times.
- Be sure to continue scrolling through until none of the times is flashing. When viewing the times, do not push either the HR/OPEN or MIN/CLOSE buttons or you will change your time settings.

Delete Weekday or Weekend Cycle 2

If you have programmed a second weekday or a second weekend open and close cycle, you can delete the second cycle, leaving only cycle 1. You can do this in either of two ways;

1) Remove the batteries and re-program the current time and cycle 1 times. Cycle 2 times are disabled by default.

OR:

- 2) a) Press the SET button for 2-3 seconds.
b) Press SET twice to scroll through your Cycle 1 open and close times.
c) When you get to your weekday Cycle 2 close time, press HR/OPEN and scroll through the hours.
d) After 11:00PM the next setting time will show - : - - .
e) When you see this press SET and Cycle 2 will be deleted.
f) You can follow the same procedure to delete weekend Cycle 2.

Temporary Override of the Timer Control Module Settings

You can open or close the vent louvers manually without affecting your timer settings. **Important: The timer control module must be inserted into the register vent when performing this operation.**

- If the louvers are closed, press and hold the HR/OPEN button for 2-3 seconds and the louvers will open.
- If the louvers are open, press and hold the MIN/CLOSE button for 2-3 seconds and the louvers will close.
- On the next programmed open or close cycle, the module will resume its pre-programmed schedule.

Suspend the Timer Control Module Program

You can suspend the timer control module program without losing your programmed open and close times.

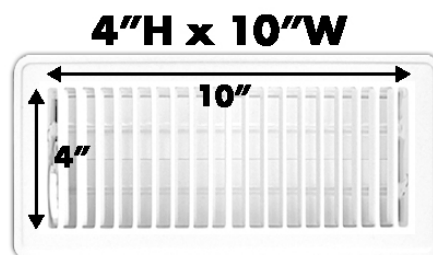
- Press and hold the HR/OPEN and MIN/CLOSE buttons at the same time for 2-3 seconds and the program will be suspended. You will see - : - - on the LCD display in place of your open and close times.
- To resume the program, press and hold the HR/OPEN and MIN/CLOSE buttons at the same time for 2-3 seconds. All your original settings will be restored and the unit will function normally.

PURCHASING ADDITIONAL UNITS

Additional units may be ordered directly from Springfield Precision Instruments by calling 1-888-809-3284. Please have a major credit card ready when placing the call.

See the illustration below to determine the correct size when measuring your existing register grill;

- Measure only the open slotted area. Do not measure the overall height and width.
- Sizes are nominal and are used for reference only. For example, the open slotted area of a 4"x 10" vent may not measure exactly 4"x 10". The actual size may vary from 3.5" to 4.25" in height and 9.5" to 10.25" in width.





76 Passaic Street, Wood-Ridge, NJ 07075-1091

1-888-809-3284

Made in China

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