VENSTAR®	RESIDENTIAL
D	THERMOSTAT
	T1100RF
THERMOSTAT	
	7-DAY
	PROGRAMMABLE
27-72 ⁻²²	UP TO 2-HEAT & 2-COOL
	HEAT & HEAT COOL & HEAT
VIDERA	 Dual Setpoint w/ Adjustable Deadband 'O' or 'B' Terminal Optional Power Supply (ACC0800)
Control up to 2 Heat & 2 Cool Stages	Unique Features
Full Range of Compatibility for Use on • Gas/Electric, HP, Electri and Hydronic Heat	 Non-Volatile Memory Wireless: Transmits up to 500 feet,
 7-Day Programmable 	through walls and floors - 418 MHZ
 4 Settings/Day Auto Changeover 	will not interfere with other systemsReceiver capable of listening to up
• 5 minute Built-In Compressor Protection	to 4 thermostats
Self-Prompting Programming w/ Copy Full Electronic	 Thermostat capable of transmitting to multiple receivers
Display Either F or C	Applications
Back-Lit Display	
Keypad Lockout Large Easy-to-Read Display	 Ideal for century old homes Ideal for keeping the baby's room
Programmable Fan	the perfect temperature
 Use with most Air Conditioning & Heatin Electric Cooling & 2 Stage Gas Heating, H 	ng Systems including: 1 or 2 Stage
augga MANI	JAL
ENERGY STAR © Venstar In	

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CAUTION	Follow Installation Instructions carefully.	A
	DISCONNECT POWER TO THE HEATER - AIR CONDITIONER BEFORE REMOVING	4
	THE OLD THERMOSTAT AND INSTALLING THE NEW THERMOSTAT.	WARNING

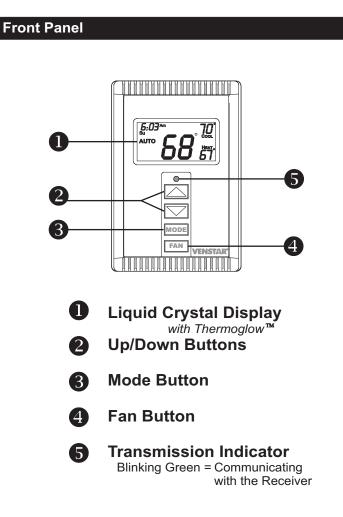
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.



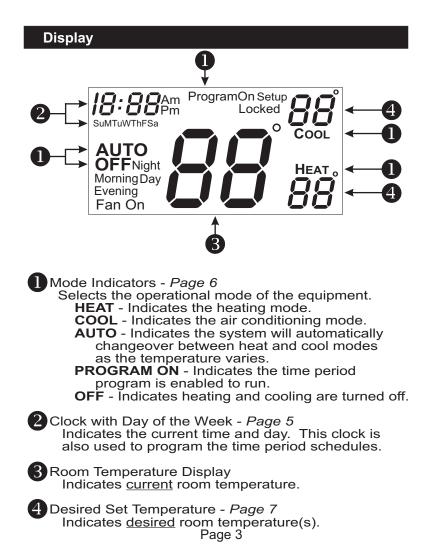
US

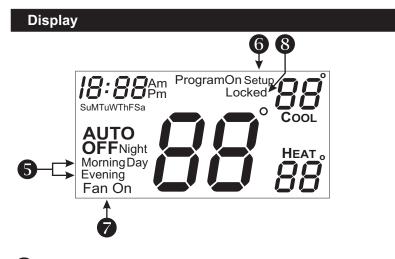


P/N T1100RF © Venstar Inc. 08/07



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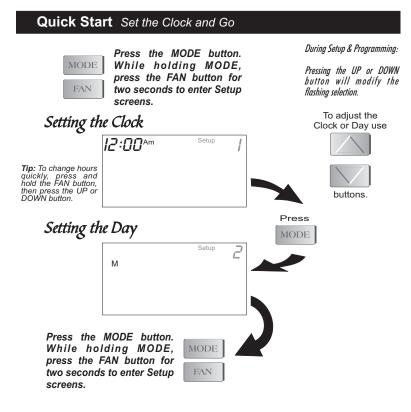
5 Morning, Day, Evening & Night icons - Pages 8-10 Indicates the day part of the time period program.

6 Setup icon - Pages 12-14 Indicates the thermostat is in the setup mode.

7 Fan On icon - Page 7

Indicates constant, continuous fan operation. When **Fan On** is not lit - indicates the fan will only operate when necessary to heat or cool.

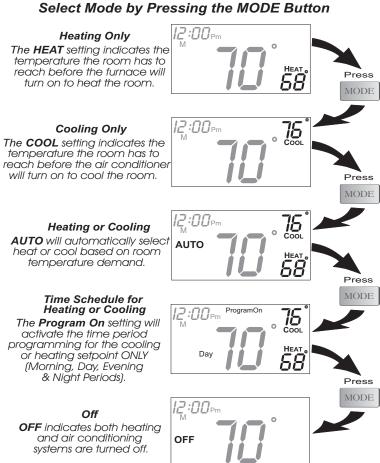
8 Locked icon - *Page 18* Indicates the keypad has been locked.



The thermostat is preprogrammed from the factory to operate one or two stage equipment* without the need for further programming. To optimize the installation of this thermostat, follow the instructions in the Advanced Setup section.

* The thermostat is not preprogrammed from the factory to operate electric heat or heat pump systems. To control these systems, follow the instructions in the Receiver manual.

Selecting the Heat or Cool Mode





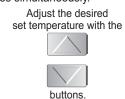
Basic Operation

Selecting Your Desired Temperature (adjusting the setpoints)

AUTO OR PROGRAM MODE

Pressing the UP or DOWN button in Auto or Program mode will adjust **both** the heat and cool set temperatures simultaneously.

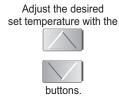




HEAT OR COOL MODE

Pressing the UP or DOWN button in Heat <u>or</u> Cool mode will adjust only the heat <u>or</u> cool set temperature.





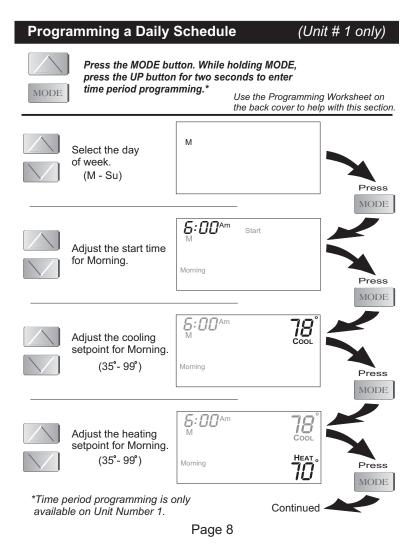
Using the Fan Button

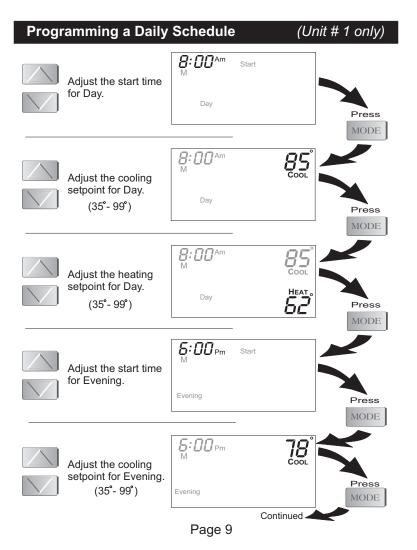


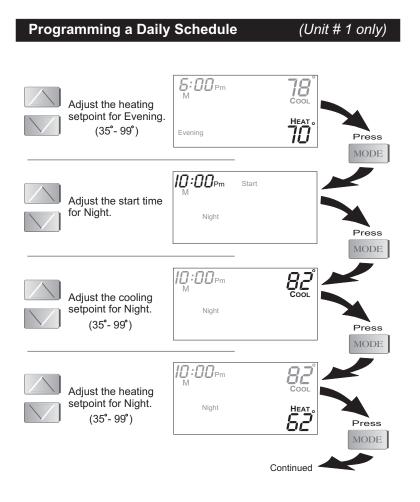
Fan On indicates constant fan operation. You may turn the fan on even if the thermostat is in the **Off** mode. Pressing the FAN button toggles this feature on or off.

Note: If the backlight is set to OFF, **any button press** will turn on the backlight for 8 seconds. To change a setting, you must immediately press the button again.

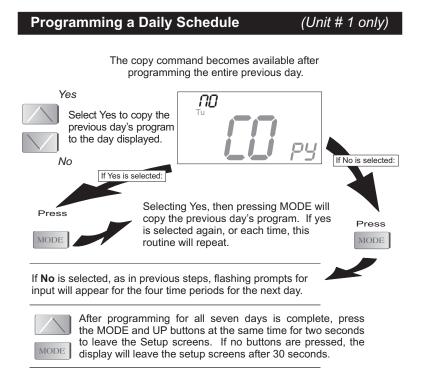
Press FAN



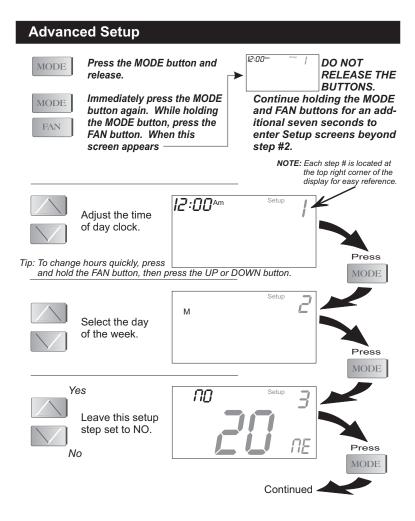




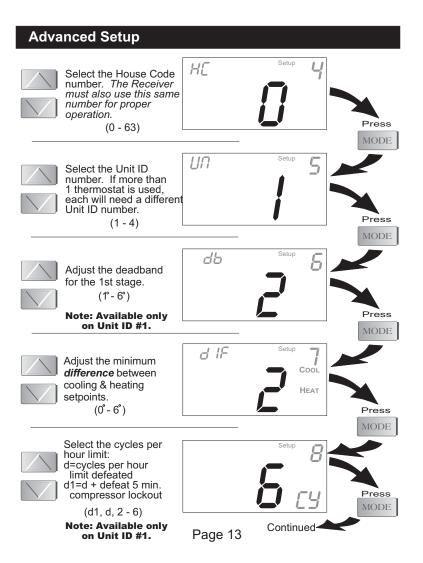
Page 10

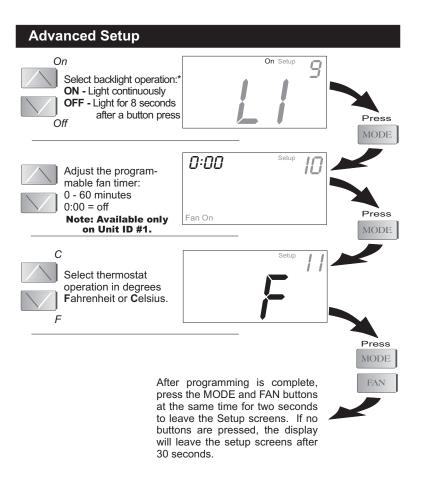


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*For increased battery life the backlight should be set to OFF unless the ACC0800 RF power supply adaptor is used to power the thermostat.

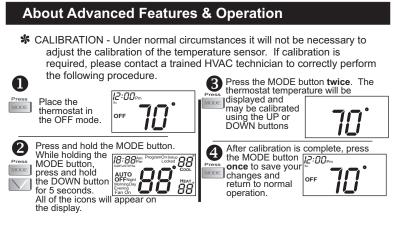
Advanced Setup

Advanced Setup Table

Step #	Description	Range	Factory Default
1	Time of Day	24 hour	12:00 am
2	Day of the Week	M - Su	М
3*	Zoning System	Yes / No	No
4	House Code	0 - 63	0
5	Unit ID Number	1 - 4	1
6**	Deadband/Temp. Swing 1st Stage	1°-6°	2°
7	Minimum Heat/Cool Differential	0°- 6°	2°
8**	Cycles Per Hour	d, d1, 2 - 6	6
9***	Thermoglow Backlight	Off / On	On
10**	Programmable Fan	0:00 - 0:60	0:00
11	Fahrenheit or Celsius	F/C	F

*For proper operation this setup step should remain in the "No" position. **These setup steps are only available on the thermostat programmed as Unit ID Number 1. ***For increased battery life the backlight should be set to OFF unless

the ACC0800 RF power supply adaptor is used to power the thermostat.



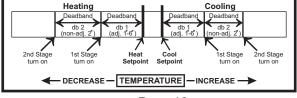
DEADBAND OPERATION - Controls up to two Heat and two Cool stages (please see the diagram below).

The 1st Stage of heat or cool is turned on when:

- (A) The temperature spread from the setpoint is equal to or greater than: the setpoint plus the 1st stage deadband (step #6, page 13). This 1st stage deadband is adjustable from 1-6 degrees and the default is two degrees.
- The **2nd Stage** of heat or cool is turned on when:
- (A) The 1st Stage has been on for a minimum of two minutes.

And

(B) The temperature spread from the setpoint is equal to or greater than: the setpoint plus the 1st stage deadband (step #6, page 13), plus the 2nd stage deadband. This 2nd stage deadband is fixed at two degrees and is not adjustable.

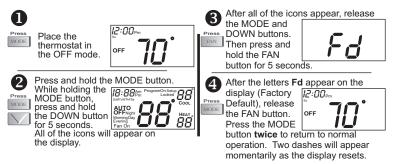


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About Advanced Features & Operation

FACTORY DEFAULTS - If, for any reason, you desire to return all the stored settings back to the factory default settings, follow the instructions below.

WARNING: This will reset all Time Period and Advanced Programming to the default settings. Any information entered prior to this reset will be permanently lost.



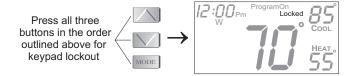
HEAT/COOL DIFFERENTIAL - The Heat and Cool setpoints will not be allowed to come any closer to each other than the value set in Advanced Setup step #7, on page 13. This minimum difference is enforced during Auto-changeover and Program On operation.

Note: To increase the spread between the heating and cooling setpoints, press the MODE button until only the heat setpoint is displayed; adjust to the desired setpoint. Press the MODE button until only the cool setpoint is displayed; adjust to the desired setpoint. Press the MODE button again to enter the Auto-changeover mode where both the heat and cool setpoints are displayed.

- MEMORY BACKUP In the event of a power loss, the thermostat will retain the stored program settings without external power or batteries.
- PROGRAMMABLE FAN This timer will start the fan at the top of each hour; and the fan will run for the number of minutes selected in step #10 on page 14.

About Advanced Features & Operation

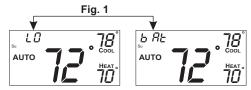
KEYPAD LOCKOUT - To prevent unauthorized use of the thermostat, the front panel buttons may be disabled. To disable, or 'lock' the keypad, press and hold the MODE button. While holding the MODE button, press the UP and DOWN buttons together. The LOCKED icon will appear on the display, then release the buttons.



To **unlock** the keypad, press and hold the MODE button. While holding the MODE button, press the UP and DOWN buttons together. The LOCKED icon will disappear from the display, then release the buttons.

- BATTERY ELIMINATOR (optional accessory) the ACC0800 RF power supply adaptor is used to power the thermostat and eliminate the need for replacing batteries each year. Use only the Venstar accessory ACC0800 for proper operation.
- LOW BATTERY WARNING The two AA lithium batteries must be replaced at least once every 12 months to ensure proper operation. The "low battery" icon (fig. 1) will appear on the display when it is time to replace the batteries.

When the "low battery" icon is displayed the batteries must be replaced immediately (see next page). The manufacturer cannot be liable for improper operation of the thermostat if the batteries are not immediately replaced. Annual battery replacement is especially critical in locations subject to freezing temperatures. The thermostat will be unable to turn on the heating system if the batteries are exhausted.

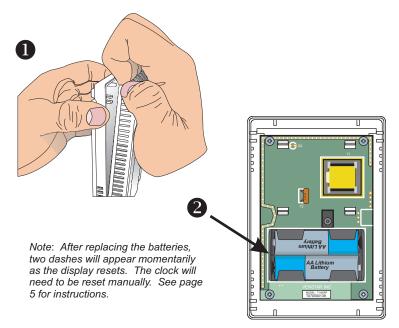


Important: To ensure proper operation use only AA <u>LITHIUM</u> batteries. Page 18

About Advanced Features & Operation

SATTERY REPLACEMENT - To replace the batteries:

- Separate the thermostat from the backplate by pulling the top of the backplate with one hand while pulling on the top corner of the thermostat with your other hand.
- Then turn the thermostat over to remove the batteries from the holder and replace with AA Lithium batteries. You may experience improper operation with the use of alkaline batteries.



Important: To ensure proper operation use only AA LITHIUM batteries.

Warranty

One-Year Warranty - This Product is warranted to be free from defects in material and workmanship. If it appears within one year from the date of original installation, whether or not actual use begins on that date, that the product does not meet this warranty, a new or remanufactured part, at the manufacturer's sole option to replace any defective part, will be provided without charge for the part itself provided the defective part is returned to the distributor through a qualified servicing dealer.

THIS WARRANTY DOES NOT INCLUDE LABOR OR OTHER COSTS incurred for diagnosing, repairing, removing, installing, shipping, servicing or handling of either defective parts or replacement parts. Such costs may be covered by a separate warranty provided by the installer.

THIS WARRANTY APPLIES ONLY TO PRODUCTS IN THEIR ORIGINAL INSTALLATION LOCATION AND BECOMES VOID UPON REINSTALLATION.

LIMITATIONS OF WARRANTIES – ALL IMPLIED WARRANTIES (INCLUDING IMPLIED WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE AND MERCHANTABILITY) ARE HEREBY LIMITED IN DURATION TO THE PERIOD FOR WHICH THE LIMITED WARRANTY IS GIVEN. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE MAY NOT APPLY TO YOU. THE EXPRESSED WARRANTIES MADE IN THIS WARRANTY ARE EXCLUSIVE AND MAY NOT BE ALTERED, ENLARGED, OR CHANGED BY ANY DISTRIBUTOR, DEALER, OR OTHER PERSON WHATSOEVER. ALL WORK UNDER THE TERMS OF THIS WARRANTY SHALL BE PERFORMED DURING NORMAL WORKING HOURS. ALL REPLACEMENT PARTS, WHETHER NEW OR REMANUFACTURED, ASSUME AS THEIR WARRANTY PERIOD ONLY THE REMAINING TIME PERIOD OF THIS WARRANTY.

THE MANUFACTURER WILL NOT BE RESPONSIBLE FOR:

- Normal maintenance as outlined in the installation and servicing instructions or owner's manual, including filter cleaning and/or replacement and lubrication.
- Damage or repairs required as a consequence of faulty installation, misapplication, abuse, improper servicing, unauthorized alteration or improper operation.
- Failure to start due to voltage conditions, blown fuses, open circuit breakers or other damages due to the inadequacy or interruption of electrical service.
- Damage as a result of floods, winds, fires, lightning, accidents, corrosive environments or other conditions beyond the control of the Manufacturer.
- Parts not supplied or designated by the Manufacturer, or damages resulting from their use.
- 6. Manufacturer products installed outside the continental U.S.A., Alaska, Hawaii, and
- Canada.
- Electricity or fuel costs or increases in electricity or fuel costs for any reason whatsoever including additional or unusual use of supplemental electric heat.
- ANY SPECIAL INDIRECT OR CONSEQUENTIAL PROPERTY OR COMMERCIAL DAMAGE OF ANY NATURE WHATSOEVER. Some states do not allow the exclusion of incidental or consequential damages, so the above may not apply to you.

This warranty gives you specific legal rights and you may also have other rights which may vary from state to state.

Programming Worksheet						see page 8	
	DAY	PERIOD	START T	IME	COOL	HEAT	
	м	Morning					
	MON DAY	Day					
	DA	Evening					
	Ŷ	Night					
	Т	Morning					<u>Copy Mon→Tue</u>
	L E	Day					□ No
	TUESDAY	Evening					Yes
	Ŷ	Night					
	W	Morning					<u>Copy Tue→Wed</u>
	SEDZENDAY	Day					□ No
	5 D	Evening					Yes
	Ŷ	Night					
	Т	Morning					<u>Copy Wed</u> →Thu
	THURSDAY	Day					□ No
		Evening					Yes
		Night					
	F	Morning					Copy Thu \rightarrow Fri
	R	Day					□ No
	F R D A Y	Evening					Yes
		Night					
	SATURDAY	Morning					Copy Fri → Sat
		Day					□ No
		Evening					Yes
		Night					
	X D Z C S	Morning					<u>Copy Sat → Sun</u>
		Day					□ No
		Evening					Yes
Y		Night					



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