Talking Thermostat

Key Information Guide

Models
VT1007, VT2007 & VT2207
# Talking Thermostat
## Key Information Guide
Models VT1007, VT2007 and VT2207

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Operation Keys and Alert Light
Model Number by Type

For Custom Message / Warranty Information
Press HELP

For Indoor Temperature and Set Point Temperature
(Also reports Check Filter, Low Battery and Call For Service)
Press REPORT

-- ALERT LIGHT -- When Flashing Press REPORT Key to hear alert message

To Raise Temperature Press UP
To Lower Temperature Press DOWN

-- FUNCTION Key --
Press BRIEFLY to backlight display screen
Press and HOLD to hear revision number

-- MODEL Number --
VT1007 -- Single Stage Heat / Cool
VT2007 -- 2 Stage Heat / Single Stage Cool / Heat Pump
VT2207 -- 2 Stage Heat / 2 Stage Cool (NOT for Heat Pumps)
Calibrate Indoor Temperature

Press the **UP** and **DOWN** keys together and **HOLD** until **INDOOR TEMPERATURE** starts to FLASH. **RELEASE.** Press the **UP** or **DOWN** key to raise or lower **INDOOR TEMPERATURE** to the desired setting.

When finished press **RUN.**

*NOTE: Indoor Temperature calibration is limited to (+ / -) 3° F / 2° C from factory default setting. Do not calibrate until unit has run one complete cycle.*
Press the **UP** and **DOWN** keys together and **HOLD** until **INDOOR TEMPERATURE** starts to FLASH. RELEASE. Press **BOTH** again until **Cr1** appears in setpoint location. Press **UP** and **DOWN** key to move to the desired setting. Press **Run**.

**Cr1** will appear here.

**NOTE:**
- **Cr1** = 1 Degree
- **Cr2** = 2 Degrees
- **Cr3** = 3 Degrees
Fahrenheit to Celsius & Reset Key

To Change From Celsius to Fahrenheit,
Press and HOLD the YES and NO keys
together for 6 seconds.

Reset Key

The RESET key has two primary functions.

1. Escape Program Mode: If, during programming, you get lost or wish to quit, press RESET. You will exit the programming mode without making changes.

2. FFr (Escapes Faulty Operation): Static discharge can cause faulty operation. To correct, press both the NO and RESET buttons together until the display disappears. When it reappears, press the RUN button to accept the FLASHING INDOOR TEMPERATURE.
If you turn the cooling OFF and back ON in less than 5 minutes, the unit will activate the time delay. **COOL** and **DELAY** will FLASH.

Press the **NO** and **FUNCTION** keys and **HOLD** for 8 seconds. This will disable the time delay feature for 10 minutes. **COOL** will stop FLASHING and **DELAY** disappears.
Program Keys

- **PROGRAM ON / OFF KEY**
  Press to turn program on or off.

- **WEEKDAY AND WEEKEND KEYS**
  Press and follow instructions to change program.

- **DAY / TIME KEY**
  Press and follow instructions to change the time and day of the week.

- **RUN KEY**
  Press to advance to next step when programming.

**NOTE:**
On heat pump models, pressing and holding **RUN** and **YES** will send thermostat into emergency or reserve heat. This also reduces the Time Delay between 1st & 2nd stage HEAT to 1 minute. To restore the default 8-minute delay, perform an “FFr” Reset per instructions on page 4.
Locking Out Programmed Operation

Lock out prevents users from accidentally running programmable operation. Press and hold NO and ON/OFF keys for 6 seconds. Audio plays “OFF” when any program button is pressed. To unlock, repeat same.

Locking Out All Operations

Full lock out prevents unauthorized users from making changes. Press and hold YES and HELP keys until you hear “OFF”.

Locks out all functions except the REPORT and HELP keys. To unlock, repeat same until you hear “O”.

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Voice On/Off
(When changing Setpoint Temperature)

Press and **HOLD** the **UP** key for 8 seconds to activate the **VOICE ON** when changing setpoint temperature.

Press and **HOLD** the **DOWN** key for 8 seconds to activate the **VOICE OFF** when changing setpoint temperature.
Filter, Service and UV Light Alert
Monthly Settings

FP (Filter Period), SP (Service Period) and ULP (UV Light Period) will display here.

NOTE:
Default Period Settings:
FILTER PERIOD (FP): 1 MONTH
(after 1 month CHK FILT appears)
SERVICE PERIOD (SP): 6 MONTHS
(after 6 months CFS appears)
UV LIGHT PERIOD (ULP): 0 MONTHS
(CFS for UV Light is turned off at 0 setting)

FP (Filter Period), SP (Service Period) Range: 1 TO 24 MONTHS
ULP (UV Light Period) Range: 0 TO 24 MONTHS

(Optional) Default Hours Settings
FILTER HOURS: 400 HOURS
(after 400 hours CHK FLT appears)
SERVICE HOURS: 3000 HOURS
(after 3000 hours CFS appears)
UV LIGHT HOURS (ULH): 0 HOURS
(CFS for UV Light is turned off at 0 setting)

FH (Filter Hours) and ULH (UV Light Hours) Range:
0 TO 3000 HOURS
SERVICE HOURS Range:
200 TO 3000 HOURS

Note: Check Filter alert can be turned off by setting it to FH 00 00
Note: To change months to hours see page 11
Adjusting Filter, Service and UV Light Period (Months)

1. Press and HOLD NO, then
2. Press and HOLD WEEK DAY until SET POINT TEMPERATURE displays FP (Filter Period). The clock display will begin flashing 01 (1 Month).
3. Press UP or DOWN to change filter months.
4. Press RUN to advance to SP (Service Period). The clock display will begin flashing 06 (6 months)
5. Press UP or DOWN to change service months.
6. Press RUN to advance to ULP (UV Light Period). The clock display will begin flashing 00 (0 or zero months)
7. Press UP to set UV Light months.
8. Press RUN to finish

Tip: Count number of months to next Filter Check, System Service CFS or UV Light CFS and enter that number.
Changing to & Adjusting Filter, Service and UV Light Hours

1. To enter HOURS of operation (instead of MONTHS), press the DOWN key until FP 00 (zero) appears and press RUN.
2. Display changes to flashing FH 04 00 (400 hours)
3. Press the UP or DOWN key to change the Filter HOURS

   Note: Check Filter alert can be turned off by setting it to FH 00 00. This is useful for boiler systems without air filters

4. Press the RUN Key and display changes to flashing SH 30 00 (3000 hours)
5. Press the UP or DOWN key to change the Service HOURS
6. Press RUN and the displays changes to flashing ULH 00 00
7. Press UP to change UV Light HOURS
8. Press RUN Key to Finish
1. Press and **HOLD NO**, then
2. Press and **HOLD WEEK END** until SET POINT TEMPERATURE displays FP (Filter Period) or FH (Filter Hours). The number of months that has elapsed or hours the system has been operating will be displayed.
3. Program will automatically advance to **SP** (Service Period) or **SH** (Service Hours). The number of months that has elapsed or hours the system has been operating will be displayed.
4. Program will automatically advance to **ULP** (UV Light Period) or **ULH** (UV Light Hours). The number of months that has elapsed or hours the system has been operating will be displayed.

Quickly Review All Settings
(Filter, Service, UV Light, Cycle Rate & 2nd Stage Differential)

To quickly review all settings for CHK Filter, CFS, ULV, Cycle Rate and 2nd Stage Differential, press and hold **NO** then **WEEKEND**. When FP or FH appears press **YES** to view all current settings.
Clearing and Resetting Period (or Hours) for CFS (for service), CFS (for UV Light) and CHK FILT

To remove "CFS" for Service Period or Service Hours, Press and HOLD NO for 6 seconds until "CFS" disappears. Resets Service Period to 0 (zero) months or Service Hours to 1.

To remove "CFS" for UV Light Period or UV Light Hours, Press and HOLD YES for 6 seconds until "CFS" disappears. Resets UV Light Period to 0 (zero) months or UV Light Hours to 1. This also resets Check Filter (see below).

To remove CHK FILT and reset Filter Period to 0 (zero) months or Filter Hours to 1, Press the REPORT key.

To manually reset Filter Period to 0 (zero) months or Filter Hours to 1, Press and HOLD YES for 6 seconds. This also resets UV Light Period (see above).
VT2007 ONLY
2nd Stage Heat Operation
Setting 2nd Stage Differential & HP Emergency Heat

HEAT 2-Stage Operation
In 1st stage, the HEAT icon shines steady.
In 2nd stage, the HI and HEAT icons shine steady.
Note: When 1st stage first cycles on, it WAITS 8 MINUTES before advancing to 2nd stage. If during this delay demand requires 2nd stage the HI and DELAY icons will flash.

Changing 2nd Stage Differential
Press the UP and DOWN keys together and HOLD until INDOOR TEMPERATURE starts to FLASH. RELEASE. Then press again until Cr1 appears in setpoint locations. Press again and HOLD until 2n2 appears in setpoint location. Press UP or DOWN key to move to desired setting. Then press RUN.

2nd Stage Differential Settings
Please see table on (next) page 15

Activating Emergency Heat (Heat Pumps Only)
To activate EMERGENCY HEAT ONLY on heat pump systems, press and HOLD RUN and YES until Eon alternately FLASHES with the setpoint temperature. To deactivate EMERGENCY HEAT ONLY, press and HOLD RUN again until Eof briefly appears and then disappears. Running EMERGENCY HEAT also reduces the time delay between stages to 1 MINUTE.

Note: On heat pump systems the GAS/ELECTRIC SWITCH located on CIRCUIT BOARD below the battery holder must be in the "E" (Electric) position.
### VT2007 and VT2207 2nd Stage Differential Settings

- 2nd Stage Differential is the sum of “Cycle Rate” (See Page 4) and the “2nx” selected (below)
- When thermostat is running in 2nd Stage, the HEAT and HI icons or (VT2207 only) the COOL and HI icons are displayed
- To reduce the 8 min delay between 1st and 2nd Stage, move the HEAT/COOL switch to OFF and then press and hold YES & RUN together for 10 seconds.

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<th>2nd Stage ON F° (C°) Differential from 1st Stage</th>
<th>2nd Stage OFF F° (C°) Differential from 1st Stage</th>
<th>Comment</th>
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<tr>
<td>2n0</td>
<td>None</td>
<td>None</td>
<td>2nd Stage is not activated. Use the setting on single stage systems</td>
</tr>
<tr>
<td>2n1</td>
<td>0.5° F (.25° C)</td>
<td>0.5° F (.25° C)</td>
<td>Takes out 2nd Stage before satisfied</td>
</tr>
<tr>
<td>2n2</td>
<td>1.0° F (.50° C)</td>
<td>0.5° F (.25° C)</td>
<td>Takes out 2nd Stage before satisfied</td>
</tr>
<tr>
<td>2n3</td>
<td>1.5° F (.75° C)</td>
<td>0.5° F (.25° C)</td>
<td>Takes out 2nd Stage before satisfied</td>
</tr>
<tr>
<td>2n4</td>
<td>2.0° F (1.0° C)</td>
<td>0.5° F (.25° C)</td>
<td>Takes out 2nd Stage before satisfied</td>
</tr>
<tr>
<td>2n5</td>
<td>1.0° F (1.0° C)</td>
<td>Same as 1st Stage</td>
<td>2nd Stg stays energized until 1st Stg satisfied</td>
</tr>
<tr>
<td>2n6</td>
<td>1.0° F (1.0° C)</td>
<td>Same as 1st Stage</td>
<td>2nd Stg stays energized until 1st Stg satisfied</td>
</tr>
<tr>
<td>2n7</td>
<td>1.0° F (.50° C)</td>
<td>Same as 1st Stage</td>
<td>VT2007 Only (locks out 1st Stage on call for 2nd stage)</td>
</tr>
<tr>
<td>2n8</td>
<td>2.0° F (1.0° C)</td>
<td>Same as 1st Stage</td>
<td>VT2007 Only (locks out 1st Stage on call for 2nd stage)</td>
</tr>
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* 2n5 and 2n6 are for 2 Stage Electric Heat systems and run 1st Stage until 1st Stage is satisfied.

** 2n7 and 2n8 are for Dual Fuel / Hybrid systems and locks out 1st Stage when 2nd Stage is energized (VT2007 only).
HEAT 2-Stage Operation
In 1st stage the HEAT icon shines steady
In 2nd stage the HI and HEAT icon shines steady
Note: When 1st stage first cycles on it waits 8 minutes before advancing to 2nd stage. If during this delay demand requires 2nd stage the HI and DELAY icons will flash.

COOL 2-Stage Operation
In 1st stage the COOL icon shines steady
In 2nd stage the HI and COOL icon shines steady
For more details of operation see User’s Guide (in product box) page 7.
Note: When 1st stage first cycles on it waits 3 minutes before advancing to 2nd stage. If during this delay demand requires 2nd stage the HI and DELAY icons will flash.

Changing 2nd Stage Differential
See page 14 VT2007 “Setting 2nd Stage Differential” and the “2nd Stage Differential Table” on page 15.

NOT for Heat Pumps
Note: The VT2207 is NOT designed to operate 2 Stage Heat Pump Systems
Note! Unlike other programmable thermostats most Talking Thermostat problems can be corrected over the phone.

Calibration
- Never calibrate thermostat until system has run through one complete cycle. If calibration is required see page 2.

HEAT Mode Complaints Calibration Solution
- “Gets too hot” Raise the Indoor Temp 1 or 2 degrees
- “Too cold when shuts off” Lower Indoor Temp 1 or 2 degrees

COOL Mode Complaints Calibration Solution
- “Gets too cold” Raise Indoor Temp 1 or 2 degrees.
- “Too warm when shuts off” Lower Indoor Temp 1 or 2 degrees.

Improper or Erratic Operation
(no heat or cool, incorrect display screen characters, indoor temp stuck, wrong indoor temp reading, etc.):
- Check for low battery voltage. Make sure at least 3.00 Volts per pair
- If a model VT1007 make sure jumper between RH & RC.
- Check that wiring is connected to the correct terminals per wiring diagram.
- Processor possibly spiked by a static discharge. Do an FFr Reset.

Heat/Off/Cool Switch or Fan Switch stuck or hard to move
99% of time common from transformer has been applied to circuit board. Most switch damage can be repaired. Call for a Warranty Return Authorization Form.

Time Saving Tips
- All time delays can be by-passed for 10 minutes by pressing both the NO and Light Keys for 10 seconds.
- VT2007 and VT2207 Only: To reduce the 8 min delay between 1st and 2nd Stage, move the HEAT/COOL switch to OFF and then press and hold YES & RUN together for 10 seconds. Note: To reset the 1-minute delay back to 8 minutes, do an FFr.
- To review time and temperature program settings or make just one or two changes, press the NO key when “minutes” are flashing. Program will advance to next time period (WAKE, DAY, EVE or SLEEP).

Tech Support - 8 A.M. to 5 P.M. CST
Phone Toll Free 866-743-5663