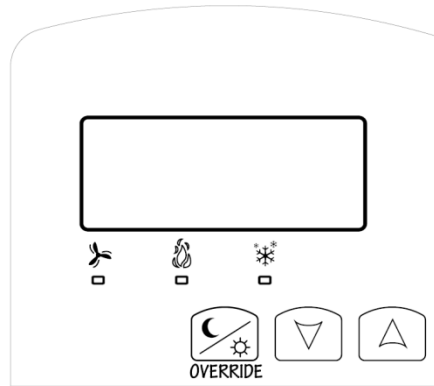# The Addition Residential Suite Thermostats User Manual

Viconics Thermostat VT7300F5500-2969

At THE ADDITION, the suite ventilation system can operate either in a HEATING <u>or</u> COOLING mode, not both at the same time. The mode is determined by the operation of the Building Central System.

<u>COOLING MODE:</u> **Thermostat is automatically switched to cooling mode when the Building Central System is providing CHILLED water to the suite manifolds.**

On a call for COOLING

- The Cooling (snowflake) LED will come ON
- The thermostat will signal the manifold 24vac zone valve to open.
- After a 3 minute delay (time delay to allow Chilled Water to reach the Unit):
- The Fan LED will come ON
- The Thermostat will then modulate fan according to demand, from "Low Speed " to "High Speed"

When the Building Central System is providing Chilled water and the suite has a call for Heating, the zone valve remains closed and the Thermostat *does not* turn the fan on. All LED's stay off.

When there is No call for heating or cooling, all LED's stay off, zone valve is closed and fan is off.

The thermostat readout will scroll between room temperature and "SystMode Cool".

<u>HEATING MODE:</u> **Thermostat is automatically switched to heating mode when the Building Central System is providing HEATING water to the suite manifolds.**

On a call for HEATING

- The Heating (flame) LED will come ON
- The thermostat will signal the manifold 24vac zone valve to open.
- After a 3 minute delay (time delay to allow Hot Water to reach the Unit):
- The Fan LED will come ON
- The Thermostat will then modulate fan according to demand, from "Low Speed" to "High Speed"

When the Building Central System is providing Hot water, and the suite has a call for Cooling, the zone valve remains closed and the Thermostat *does not* turn the fan on. All LED's stay off.

When there is No call for heating or cooling, all LED's stay off, zone valve is closed and fan is off.

The thermostat readout scrolls between "room temperature" and "SystMode heat".

Adjusting OCCUPIED Temperature Set-points:

To adjust the occupied temperature, press the UP and DOWN arrows buttons on the thermostat to get to the desired temperature for your comfort. Please note that even though the buttons will allow you to set the thermostat set-points to the ranges identified below for both heating and cooling, the system operating range will restrict the actual temperatures to the actual range of the Building Central System.

The Thermostat provides a single occupied set-point adjustment

When in Heating Mode the set-point range is: 4.5 to 24.0 °C.

When in Cooling Mode the set-point range is: 19.0 to 37.5 °C.

If desired, setting Heating Set-point to 4.5 or Cooling Set-point to 37.5 will basically disable the thermostat

PIR Function:

The built-in Passive Infra-Red occupancy sensor (PIR) automatically selects the Thermostat **Occupied** Set-Points when any motion is detected, If the PIR sees no motion for >4 Hours then the **Standby** Set-Points will be activated. If the PIR sees no motion for >24 Hours then the **Unoccupied** Set Points will be activated. As soon as any movement is detected the Thermostat will return to **Occupied** Set-Points that were previously set.

Important: Typical motion detection range is around 12-14 feet, with perpendicular normal walk speed.

Default STANDBY and UNOCCUPIED Set-Points:

The default set-points below are fixed in the Thermostat and are not user adjustable. They were designed to allow the system to be able to restore occupied set-points from standby within a relative short period of time and also to limit energy use when the space is unoccupied.

Default Set-point for St-By HT	19.5 C
Default Set-point for St-By CL	25.5 C
Default Set-point for Unocc HT	17.5 C
Default Set-point for Unocc CL	27.5 C

OVERRIDE Button:

Override button is NOT FUNCTIONAL, and will display "Lockout" when override button pressed. If the button is pressed for 8-10 seconds it will enter the configuration menu. The password is 1000 minus "Error code". **This menu is intended for experienced technical configuration and altering any settings inside of this menu can cause the thermostat to operate incorrectly and service calls to correct issues from these being pressed will not be covered under warranty**

HIDDEN Buttons:

On some thermostats the manufacturer has inadvertently left the plunger for some unused switches in place but these SHOULD NOT BE PRESSED. They are not identified by a button symbol on the front cover of the thermostat and are not part of the specific configuration of these thermostats. Pressing these buttons can

cause the Thermostat to operate incorrectly and service calls to correct issues from these being pressed will not be covered under warranty

DEFAULT SETTINGS FOR THERMOSTATS

*** Parameters in green need to be set as directed for the sequence to work as expected.

Parameter	Default value for bedrooms
PswrdSet	0
Com Addr	---
Pan ID	---
Channel	---
GetFrom	0
BI1	None
BI2	None
UI3	COC/NC (contact open = cold water)
MenuScro	On
AutoMode	On
C or F	C
Lockout	1 (will display "Lockout" when override button pushed)
Pipe No	This parameter will be fixed to 2.0
SeqOpera	1
Fan Menu	4 (Auto)
St-By Tm	4 hrs
Unocc Tm	24 hrs
St-By HT	19.5C
St-By CL	25.5 C
Unocc HT	17.5C
Unocc CL	27.5C
heat max	24C
cool min	19C
Pband	3 F
Set Type	Perment
Spt Func	AttchStp
TOccTime	2 (Unused)
deadband	2 F
cal RS	---
aux cont	0

Auto Fan	AS AD
RA/DA	DA
Reheat	0 (Unused)
Low AO2	2 V
Med AO2	4.5 V
High AO2	7 V
UI3 dis	---

Auto Fan	AS AD