

# VT7600F Series

# **User Interface Guide**

# November 2015

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# CONFIGURING AND STATUS DISPLAY INSTRUCTIONS

# Status display

The Room Controller features a two-line, eight-character display. There is a low level backlight that is always active and can only be seen at night.

When left unattended, the Room Controller has an auto scrolling display that shows the current status of the system.

Each item is scrolled sequentially with the back lighting in low level mode. Pressing any key will cause the back light to come on to high level.

Manual scrolling of each menu item is achieved by pressing the Yes (scroll) key repetitively. The last item viewed will be shown on the display for 30 seconds before returning to automatic scrolling. Temperature is automatically updated when scrolling is held.

# Sequence of auto-scroll status display:

CLOCK STATUS	SYSTEM MODE	SCHEDULE STATUS	OUTDOOR TEMPERATURE	ALARMS
Monday 12:00 AM	Sys mode auto	Occupied	Outdoor x.x °C or° F	Service
	Sys mode off	Occupied hold		Frost ON
	Sys mode heat	Unoccup		SetClock
	Sys mode cool			Filter
				Fan lock
				DAS Alrm

## Outdoor air temperature

Outdoor air temperature display is only enabled when outdoor air temperature sensor is connected.

- A maximum range status display of 50 °C (122 °F) indicates a shorted sensor.
   Associated functions, such as mode lockouts and economizer function are automatically disabled.
- A minimum range status -40 °C (-40 °F) is not displayed and indicates an opened sensor or a sensor not connected. Associated functions, such as mode lockouts and economizer function are automatically disabled.

### **Alarms**

- If alarms are detected, they will automatically be displayed at the end of the status display scroll.
- During an alarm message display, the back lit screen will light up at the same time as the message and shut off during the rest of the status display.
- Two alarms maximum can appear at any given time.
- The priority for the alarms is as follows:

# Sequence of manual-scroll status display:

Manual scroll of each menu item is achieved by pressing the Yes (scroll) key repetitively. The last item viewed will be shown on the display for 30 seconds before returning to automatic scrolling. Temperature is automatically updated when scrolling is held.

System Clock Status chedule Mode

Outdoor Al Status

Temperature

(if detected)

Monday	Sys	0	ccu
12:00 AM	Mode	pi	ed
	Off		
	Sys	U	noc
	Mode	CL	ıpie
	Auto	d	
	Sys		
	Mode	0	verri
	Cool	de	)
	Sys		
	Mode		
	Heat		

Outdoor	
xx.x °C o	r DFAS Alrm
	SetClock
	Filter
	Fan lock
	Frost ON
	<u> </u>

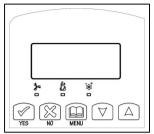
Frost ON	Indicates that the heating is energized by the low limit frost protection room temperature setpoint 5.6 °C (42 °F)
SetClock	Indicates that the clock needs to be reset. There has been a power failure which has lasted longer than 6 hours
Service	Indicates that there is a service alarm as per one of the configurable digital input (DI1 or DI2)
Filter	Indicates that the filters are dirty as per one of the configurable digital input (DI1 or DI2)
Fan lock	Indicates that the heating and cooling action are locked out due to a defective fan operation
DAS Alarm	Indicates that the discharge air temperature is either too low or too high.

When any of the fan is ON, the FAN LED will illuminate	*
When heating is ON, the HEAT LED will illuminate	23
When cooling is ON, the COOL LED will illuminate	**

# USER INTERFACE

# User configuring instructions menu

The VT76X6FX series of controllers feature an intuitive, menu-driven, back-lit LCD display that walks users and installers through the configuring steps, making the configuring process extremely simple. This menu is typically accessed by the user to set the parameters such as the clock time set, the schedule time events and the system mode.



It is possible to bring up the user menu at any time by depressing the MENU key. The status display automatically resumes after exiting the user-configuring menu.

If the user pauses at any given time during configuring, **Auto Help** text is displayed to help and guide the user through the usage and configuring of the controller.

Press yes key to change cooling temperature setpoint Ex.: Use the up or down arrow to adjust cooling setpoint

Each of the sections in the menu is accessed and configured using 5 keys on the controller cover. The priority for the alarms is as follows:

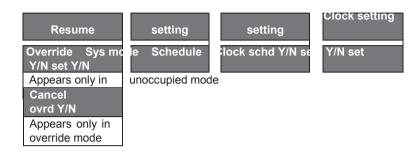
# Local keypad interface

YES	The YES key is used to confirm a selection, to move onto the next menu item and to manually scroll through the displayed information.
SA SA	The NO key is used when you do not desire a parameter change, and to advance to the next menu item. Can also be used to toggle between heating and cooling setpoints.
MENU	The MENU key is used to access the Main User Menu or exit the menu.
	The down arrow key is used to decrease temperature setpoint and to adjust the desired values when configuring the Room Controller.
	The up arrow key is used to increase temperature setpoint and to adjust the desired values when configuring the Room Controller.

When left unattended for 45 seconds, the display will resume automatic status display scrolling.

To turn on the back light, press any key on the front panel. The back lit display will turn off automatically after 45 seconds.

# Sequence of user menu:



# A) Override an unoccupied period



This menu will appear only when the Room Controller is in unoccupied mode. The unoccupied mode is enabled either by the internal timer scheduling or by a remote NSB contact via DI1 or DI2.

If DI1 or DI2 is configured to operate as a remote temporary override contact, this menu will be disabled.

Answering yes to this prompt will cause the Room Controller to go into occupied mode for an amount of time equal to the parameter "TOccTime" (1 to 12 hours).

# B) Resume regular scheduling



This menu does not appear in regular operation. It will appear only when the Room Controller is in Unoccupied override mode.

Answering "Yes" to this question will cause the Room Controller to resume the regular setpoints & scheduling.

# C) Temperature setpoints

# Permanent setpoint changes



COOLING

This menu permits the adjustment of all permanent temperature setpoints (occupied and unoccupied) as well as the desired temperature units (°F or °C). Permanent setpoints are written to RAM and EEPROM.

HEATING

SETPOINT OCCUPIED MODE		SETPOINT OCCUPIED MODE		SETPOINT UNOCCUPIED MODE		SETPOINT UNOCCUPIED MODE		DISPLAY SETTING	
Cooling set? Y/N		Heating set? Y/N		Unocc CL set? Y/N	No next □ Yes down	Unocc HT set? Y/N	No next □ Yes down	°F or °C set? Y/N	No next □ Yes down

COOLING

**HEATING** 

Use	keys to set value	, Yes key to confirm
use	keys to set value,	, res key to commi

Cooling	Use	Heating	Use	Unocc CL	Use	Unocc HT	Use	Units	Use
70.0 °F	To set	68.00 °F	To set	80.0 °F	To set	60.0 °F	To set	°F	To set
	value		value		value		value		value

# Temporary setpoint changes

Temporary setpoints can be modified through the Up arrow key ( ) and the Down arrow keys ( ).

User will be prompted with the present mode (Heating or Cooling) of the Room Controller and its setpoint.

The Up ( ) arrow key will increment the setpoint by 0.5 degree (F or C).

The Down ( ) arrow key will decrement the setpoint by 0.5 degree (F or

C). Press the Yes key to accept the new setpoint.

Local changes to the heating or cooling setpoints made by the user directly using the up or down arrow are temporary.

They will remain effective for the duration specified by ToccTime.

Setpoints will revert back to their default value after internal timer ToccTime expires. If a permanent change to the setpoints is required, use the Temperat set? menu

# D) System mode setting



This menu is accessed to set system mode operation

Use to set value, Yes key to confirm

Sys mode auto	Automatic mode Automatic changeover mode between heating and cooling operation
Sys mode cooling	Cooling mode Cooling operation mode only
Sys mode heating	Heating mode Heating operation mode only
Sys mode emergency	Emergency heat mode ( heat pump models only ) Forced auxiliary heat operation mode only
Sys mode off	Off mode Normal cooling or heating operation disabled  If enabled in installer parameters, only the automatic heating frost protection at 50 °F ( 10 °C ) is enabled

# E) Fan mode setting

Fan mode set Y/N

This section of the menu is permits the setting of the fan mode operation.
Use to set value, Yes key to confirm

Fan mode On	On fan mode Fan is on continuously, even when system mode is OFF.
Fan mode Auto	Automatic fan mode Fan cycles on a call for heating or cooling for both occupied & unoccupied periods.
Fan mode Smart	Smart fan mode During occupied periods, fan is on continuously. In unoccupied mode, fan cycles on a call for heating or cooling. This selection is available on all models with a communication module, on all stand-alone (Network Ready) scheduling models or if DI1 or DI2 is set to RemNSB on stand-alone non-scheduling models.

# F) Schedule set (2 events)

Scheduling can have 2 or 4 events per day. This is set in the configuration menu as per parameter (2/4event)



This section of the menu permits the user to set the whether 2 or 4 events is needed. Each day can be tailored to specific schedules if needed.

2 events can be scheduled per day.

**MONDAY TIMER** 

· Occupied & unoccupied periods can be set for each day.

**TUESDAY** 

SCHEDULE SET			JLE SET		JLE SET	IDENTICAL
Monday set? Y/N	No next □ Yes down □	Tuesday set? Y/N	No next □ Yes down	Wednesday set? Y/N	No next □ Yes down	Selects the day to be scheduled or modified
Yes key to access day scheduling, No key to jump to next day						
Occupied Day? Y/N	No next □ Yes down □	Occupied Day? Y/N	No next □ Yes down	Occupied Day? Y/N	No next □ Yes down	Yes = Daily schedules will be accessed No = Unoccupied mode all day
	-	Yes key to acc	ess day sched	uling, No key to	jump to next da	ay
		Copy Y/N Previous	Yes next	Copy Y/N Previous	Yes next	Yes = Will copy previous day schedule No = Daily schedules will be accessed
	Y	es key to copy	previous day, N	No key to set nev	w time value fo	r each day
Occupied 00:00 AM	Use To set value	Occupied 00:00 AM	Use To set value	Occupied 00:00 AM	Use To set value	Sets Event # 1 Occupied time Will activate occupied setpoints

**WEDNESDAY** 

OTHER DAYS ARE

Use to set value, Yes key to confirm

Unoccup	Use	Unoccup	Use	Unoccup	Use	Sets Event # 2 Unoccupied time
00:00 AM	To set	00:00 AM	To set	00:00 AM	To set	Will activate unoccupied setpoints
	value		value		value	

Use to set value, Yes key to confirm

Typical examples of a 2 event office schedule:

Ex. #1 Office building closed all weekend

Event	Period #1	- Event #1	Perio <b>ob#i1</b> y-Event#2	
	Occi	ıpied	Octrupanopied	
Setpoint	Cool	Heat	Dowdime onlyHeat	
Setponit	72 °F	70 °F	<b>₿a</b> y°fime onlø2 °F	
Monday	7.00	AM	Day 160000 671My	
Tuesday	7.00	AM	Day 160000 671My	
Wednesday	7.00	AM	Day 160000 671My	
Thursday	7.00	AM	Uno 6 coup ie M	
Friday	7.00	AM	Uno 6 coup ie M	
Saturday	12.00	PM *	12.00 PM *	
Sunday	12.00	PM *	12.00 PM *	

<sup>\*</sup> Scheduling consecutive events to the same time will cause the Room Controller to choose the last event as the time at which it will set its schedule. In the above example, the Room Controller will control to the unoccupied set point until 7:00 AM Monday.

Ex. #2 Commercial building which is occupied all weekend

Event	Period #	1 - Event 1		1 - Event 2	Daily Occupancy
	Occupied		Unoco	cupied	Day time only
Setpoint	Cool Heat		Cool	Heat	Day time only
Setponit	72 °F	70 °F	80 °F	62 °F	Day time only
Monday	8.00	AM	5.00	PM (	Day time only
Tuesday	8.00	AM	5.00 PM		Day time only
Wednesday	8.00	AM	5.00	PM (	Occupied
Thursday	8.00	AM	5.00	PM (	Occupied
Friday	8.00	AM	5.00	PM (	
Saturday	12.00	AM **	11.59	PM **	
Sunday	12.00	AM **	11.59	PM **	

<sup>\*\*</sup> To schedule a day as occupied for 24 hours, set that day occupied time to 12:00 AM and Unoccupied time to 11:59 PM There will be a 1 minute unoccupied period every night at 11:59 PM with this schedule configuration.

Note: 12:00 PM = Noon 12:00 AM = Midnight

# G) Schedule set (4 events)

Schedul e set Y/N

This section of the menu permits the user to set the whether 2 or 4 events is needed. Each day can be tailored to specific schedules if needed.

- 4 events can be scheduled per day.
- Occupied & Unoccupied periods can be set for each day.

	ay timer lule set		ay timer dule set			
Monday set? Y/N	No next □ Yes down	Tuesday set? Y/N	No next □ Yes down □	Wednesday set? Y/N	No next □ Yes down □	Selects the day to be scheduled of modified
		Yes key to	access day sch	neduling, No key	to jump to next	day
Occupied Day? Y/N	No next □ Yes down	Occupied Day? Y/N	No next □ Yes down □	Occupied Day? Y/N	No next □ Yes down	Yes = Daily schedules will be accessed No = Unoccupied mode all day
		Copy Y/N Previous	Yes next □ No down □	Copy Y/N Previous	Yes next  U  No down U	Yes = Will copy previous day schedule No = Daily schedules will be accessed
Occupied 00:00 AM	Use To set value	Occupied 00:00 AM	previous day, N Use To set value	Occupied 00:00 AM	Use To set value	Sets Event # 1 Occupied time Will activate occupied setpoint
		ι	Jse to set value	e, Yes key to confi	irm	
Unoccup 00:00 AM	Use To set value	Unoccup 00:00 AM	Use To set value	Unoccup 00:00 AM	Use To set value	Sets Event # 2 Unoccupied time Will activate unoccupied setpoints
		Į	Jse to set value	e, Yes key to conf	irm	
Occupie2 00:00 AM	Use To set value	Occupie2 00:00 AM	Use To set value	Occupie2 00:00 AM	Use To set value	Sets Event # 3 Occupied time Will activate occupied setpoint
		l	Jse to set value	e, Yes key to conf	irm	
Unoccup2 00:00 AM	Use To set value	Unoccup2 00:00 AM	Use To set value	Unoccup2 00:00 AM	Use To set value	Sets Event # 4 Unoccupied time Will activate unoccupied setpoints

Ex. #1 Four event retail establishment schedule

Event	Period Ever		Period Ever		Period Even				
Setpoint	Occup	oied	Unocci	pied	Occup	Occupied		ıpied	
	Cool		Cool		Cool		Cool		Daily
	Heat		Heat		Heat		Heat		Occupancy
	72°F 70	°F	80°F 62	°F	72°F 70	°F	80°F 62	°F	
Monday	7.00 AM		5.00	PM	12.00 PM *		12.00 PM *		Day time only
Tuesday	7.00	AM	5.00 PM		12.00 PM *		12.00 PM *		Day time only
Wednesday	7.00	AM	5.00	PM	12.00 PM *		12.00 PM *		Day time only
Thursday	7.00	AM	5.00	PM	7.00 I	7.00 PM		PM	Day/evening time only
Friday	7.00	AM	5.00	PM	7.00 I	PM	10.30 PM		Day/evening time only
Saturday	12.00 l	PM *	12.00 I	PM *	12.00 F	PM *	12.00 I	PM *	Unoccupied
Sunday	12.00 l	PM *	12.00 I	PM *	12.00 F	PM *	12.00 I	PM *	Unoccupied

<sup>\*</sup> Scheduling events to the same time will cancel the last period and leave the Terminal Equipment Controller in unoccupied mode

Fx. #2 Residential

Ex. #2 Residen	itiai								_
Event	Period 1 - Event 1			od 1 - ent 2	Period 2 - Event 3			od 2 - ent 4	
Setpoint	Occi	ıpied	Unoco	cupied	Occi	ıpied	d Unoccupied		
	Cool	Heat	Cool	Heat	Cool	Heat	Cool	Heat	Daily
	72°F	70°F	80°F	62°F	72°F	70°F	80°F	62°F	Occupancy
Monday	6:00	AM	8:00	) AM	4:00	PM	10:00	) PM	Day/evening time only
Tuesday	6:00	AM	8:00	AM	4:00	PM	10:00	) PM	Day/evening time only
Wednesday	6:00	AM	8:00	AM	4:00	PM	10:00	) PM	Day/evening time only
Thursday	6:00	AM	8:00	AM	4:00	PM	10:00	) PM	Day/evening time only
Friday	6:00	AM	8:00	) AM	4:00	PM	11:30	) PM	Day/evening time only
Saturday	8:00	AM *	8:00	AM *	8:00	AM *	11:59	PM *	Day time only
Sunday	12:00	AM *	12:00	AM *	12:00	AM *	11:59	PM *	Occupied all day

<sup>\*</sup> Scheduling consecutive events to the same time will cause the Room Controller to choose the last event as the time at which it will set its schedule. In the above example for Saturday, the Room Controller will control to the occupied set point from 8:00 AM until 11:59 PM. Since it is desired to be in occupied mode throughout the night, then it is necessary to schedule the first event on Sunday at 12:00 AM. The Room Controller will force a one minute unoccupied period for a one minute period (between 11:59 PM and 12:00 AM on Saturday).

# H) Clock/Day Settings



This section of the menu permits the user to set the time and day.

Time setting	Day setting	Time format setting
--------------	-------------	---------------------

Time set?	No next □ Yes	Day set?	No next □ Yes	12/24hrs set?	No = exit
Y/N	down □	Y/N	down □	Y/N	Yes down □
Time 0:00	Use To set value	Day Monday	Use To set value	12/24hrs 12 hrs	Use To set value

# J) Schedule hold

Sched ule hold Y/N

- This menu will only appear on stand-alone (Network Ready) Room Controller, i.e. without a BACnet™ / Echelon™ module.
- This section of the menu permits the user to set a permanent schedule hold, which bypasses the internal Room Controller scheduling.
- The permanent schedule hold function is typically used for nonscheduled events that extend for various periods of time.
- Enabling a permanent occupied or permanent unoccupied schedule hold will cancel any active override.
- The use of temporary setpoints during permanent hold is permitted. The duration of the temporary setpoint is as set per the TOccTime parameter. Ex. 3 hours

CONFIGURATION PARAMETERS DEFAULT VALUE	SIGNIFICANCE AND ADJUSTMENTS
PswrdSet Configuration parameters menu access password Default value = 0 No password prompted Com addr Thermostat networking address Default value = 254 Range is: 0 to 254	This parameter sets a password access to prevent unauthorized access to the configuration menu parameters. A default value of "0" will not prompt a password or lock the access to the configuration menu.  Range is: 0 to 1000  Conditional parameter to BACnet MS-TP models (VT76xxX5x00B)  Conditional parameter to Wireless models (VT76xxX5x00W)
	This parameter will only appear when a BACnet or wireless network adapter is present. If the thermostat is installed as a stand-alone unit or with an Echelon adapter, this parameter will not be used or displayed  - For BACnet MS-TP models valid range to use is from 1 to 127. Default value of 254 disables BACnet communication for the thermostat.  - For wireless models valid range is 0 to 254 with a maximum of 30 thermostat per VWG
PAN ID Personal Area Network Identification Default value = 0 Range is: 0 to 1000	Conditional parameter to Wireless models (VT76xxX5x00W)  This parameter will only appear when a wireless network adapter is present. If the Room Controller is installed as a stand-alone (Network Ready) unit or with a BACnet™ or Echelon™ adapter, this parameter will not be used or displayed  This parameter (Personal Area Network Identification) is used to link specific Room Controllers to a single specific Viconics wireless gateway (VWG) For every Room Controller reporting to a gateway (maximum of 30 Room Controllers per gateway), be sure you set the SAME PAN ID value both at the gateway and the Room Controller(s).  The default value of 0 is NOT a valid PAN ID.

### Channel

Channel selection Default value = 10 Range is: 10 to 26

# Conditional parameter to Wireless models (VT76xxX5x00W)

This parameter will only appear when a wireless network adapter is present. If the Room Controller is installed as a stand-alone (Network Ready) unit or with a BACnet™ or Echelon™ adapter, this parameter will not be used or displayed

This parameter (Channel) is used to link specific Room Controllers to specific Viconics wireless gateway(s) (VWG) For every Terminal Equipment Controller reporting to a gateway (maximum of 30 Room Controllers per gateway), be sure you set the SAME channel value both at the gateway and the Room Controller(s).

Viconics recommends using only the usage of channels 15 and 25 only.

The default value of 10 is **NOT** a valid channel. The valid range of available channel is from 11 to 26

DI 1	None, No function will be associated with the input
Digital input no.1 configuration Open contact input = function not energized Closed contact input = function energized	Rem NSB, remote NSB timer clock input. Will disable the internal scheduling of the thermostat. The scheduling will now be set as per the digital input. The time is still displayed as information, but the menu part related to scheduling is disabled and no longer accessible.  Open contact = occupied setpoints
Default value = None	Closed contacts = unoccupied setpoints
	RemOVR Temporary override remote contact. Disables all override menu function of the thermostat. The override function is now controlled by a manual remote momentarily closed contact. When configured in this mode, the input operates in a toggle mode. With this function enabled it is now possible to toggle between unoccupied & occupied setpoints for the amount of time set by parameter (TOccTime) temporary occupancy time. When Override is enabled, an Override status message will be displayed
	Filter, a back-lit flashing Filter alarm will be displayed on the thermostat LCD screen when the input is energized
	Service, a back-lit flashing Service alarm will be displayed on the thermostat LCD screen when the input is energized
	Fan lock, a back-lit flashing Fan lock alarm will be displayed on the thermostat LCD screen when the input is not energized. Used in conjunction with a local airflow sensor connected to the input. Locks out the thermostat heating and cooling action if no airflow is detected 10 seconds after the fan (G terminal) is energized.
	Open contact = no airflow
	Closed contacts = airflow present
DI 2	Same as above. It is possible to configure both inputs to

# Digital input no.2 configuration

Open contact input = function not energized

Closed contact input = function energized

Default value = None

Same as above. It is possible to configure both inputs to have the same function.

			Om = Scro	ii not act	ive			
Lockout Keypad lockout levels  Default value = 0 No lock  1 = Low level 2 = High level  USER KEY FUNCTIONS								
LEVEL	Resume/ Override scheduling	Permanent Occupied and Unoccupied Setpoints	Temporary setpoints using arrows	System mode setting	Fan mode setting	Schedules setting	Clock setting	Permanent hold
0								
1								
2								
pwr del Power-up Default va	delay alue = <b>10 sec</b>	onds h	On initial po /AC power lelay before neating). The inits / Roon 0 to 120 se	supply is any oper is can be n Controll	removed ration is a used to s	& re-appli uthorized equence s	ed) there (fan, cool	is a ing or

MenuScro

Menu scroll

active

Default value = **On =** Scroll

Removes the scrolling display and only present the

enabled, no status is given of mode, schedule and

outdoor temperature. On = Scroll active

Off = Scroll not active

room temperature/humidity to the user. With this option

Frost pr	Off: no ro	om frost pr	otection						
Frost protection enabled		On: room frost protection enabled in all system mode at:							
Default value = <b>Off</b>	42 °F ( 5.6								
			nabled even ir	n system <b>Off</b> m	ode				
	Off or On								
	On <b>heat pump</b> models the system mode will be forced to EMERGENCY mode if frost protection is activated								
heat max				d heating setpo	int				
Maximum heating setpoint			setpoint rang	ge is: <b>40 to</b>					
limit	90 °F ( 4.	5 to 32.0 °	C)						
Default value = 90 °F (32 °C)									
cool min				cooling setpoir	nt				
Minimum cooling setpoint limit Default value = 54 °F ( 2 °C )		nt. Cooling 1 <b>2.0 to 37.</b>	setpoint rang	ge is: <b>54 to</b>					
Delault value = 34 F (2 C)	100 F (	12.0 10 37.	3 C)						
Pband	Adjust the	proportion	al band used	by the Room C	Controller				
Proportional Band setting	PI control			.,					
Default value 2 = 2.0 °F									
( 0.6 °C )				lue of 2.0 °F (1.					
				ition in most no					
				use of a superion he factory one i					
				he Room Contr					
				to unwanted cy					
	the unit. A	A typical ex	cample is a wa	all mounted uni	t where				
				etween the retu					
			d is directly inf	fluenced by the	supply air				
	stream of	the unit.							
		Value	F scale	C scale	7				
			Pband	Pband					
		2	2 F	1.1 C					
		3	3 F	1.7 C					
		4	4 F	2.2 C					
		5	5 F	2.8 C					
		6	6 F	3.3 C					
		7	7 F	3.9 C					
		8	8 F	4.4 C					

Anticycle	Minimum On/Off operation time of cooling & heating				
Minimum on/off operation time	stages.				
for stages					
Default value = 2 minutes	<b>IMPORTANT</b> , anti-short cycling can be set to 0 minutes for equipment that possess their own anti cycling timer. Do not use this value unless the equipment is equipped with such internal timer. Failure to do so can damage the equipment 0, 1, 2, 3, 4 & 5 minutes				
	Anti-short cycling can be set to 0 minutes for equipment				
	that possess their own anti cycling timer. Do not use that value unless the equipment is equipped with such internal timer. Failure to do so can damage the equipment.				
Min SH	Sets the minimum supply heat to be maintained by the				
Minimum supply heat	controller during occupied periods (Occupied or Tempora				
temperature setpoint	Override).				
Default value = 64 °F (18 °C)	From 50 °F up to 72 °F (10 °C up to 22 °C)				
	(increments: 0.5° or 5°)				

cool cph Cooling stages cycles per hour Default value = 4 C.P.H.	Will set the maximum number of cooling stage cycles phour under normal control operation. It represents the maximum number of cycles that the equipment will turn on and off in one hour.  Note that a higher C.P.H will represent a higher accura of control at the expense of wearing mechanical components faster.  3 or 4 C.P.H.  For multi stage models, cool cph applies to Y1 & Y2 cooling and heating independently of the reversing valve position	
deadband Minimum deadband Default value = 2.0 °F (1.1 °C)	Minimum deadband value between the heating and cooling setpoints. If modified, it will be applied only when any of the setpoints are modified. 2, 3 or 4 °F ( 1.0 to 2.0 °C )	

fan cont	Fan control in heating mode.		
Fan control	When selecting <b>On</b> ; the Room Controller in all cases		
Default value = On	will always control the fan (terminal G).		
	Valid for On or Auto fan mode		
	When selecting <b>Off</b> ; the fan (terminal G), when heating		
	stages (terminals W1 & W2) are solicited, will not be		
	energized. The fan in this case will be controlled by the		
	equipment fan limit control.		
	Valid only for Auto fan mode. On fan mode will leave		
	the fan always on.		
	ON OR OFF		
	For multi stage models, fan control applies to W1 &		
	W2		
	For heat pump models, fan control applies to W1		
	only (Emergency heat)		
	cm, (=morgono, nous,		
fan del	Fan delay extends fan operation by 60 seconds after		
Fan delav	· · · · · · · · · · · · · · · · · · ·		
Default value = <b>Off</b>	the call for heating or cooling ends. Valid only for Auto fan mode. "On" fan mode will		
Delauit value – OII	leave the fan always on. <b>Off or On</b>		
	leave the fair always on. On or on		
ToccTime	Temporary occupancy time with occupied mode		
Temporary occupancy time	setpoints when override function is enabled When		
Default value = 3 hours	the Room Controller is in unoccupied mode, function		
	is enabled with either the menu or DI1 or DI2		
	configured as remote override input.		
	0,1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 & 12 hours		
Cal RS	Offset that can be added/subtracted to actual		
Room air temperature sensor	displayed room temperature ± 5.0 °F (± 2.5 °C)		
calibration	displayed resili temperature 2 sis 1 (22is s)		
Default value = 0.0 °F or °C			
Cal OS	Offset that can be added/subtracted to actual displayed		
Outside air temperature sensor	outside air temperature		
calibration	± 5.0 °F ( ± 2.5 °C )		
Default value = 0.0 °F or °C			

SH lock Outside air temperature supply	Disables heating operation based on outdoor air temperature.			
heat lockout  Default value = 32 °F (0 °C)	Please refer to the Viconics Zoning System Guide for recommended settings.			
	From -15 °F up to 120 °F (-26 °C up to 49 °C)			
	(increments: 5° or 50°)			
C stage Number of cooling stages Default value = 2 stages	Will revert the operation of 2 stage Room Controller to single stage operation only when the second cooling step is not needed. <b>1 or 2 stages</b>			
H lock Outside air temperature heating lockout Default value = 120 °F ( 49 °C )	Disables heating stage operation based on outdoor air temperature. Function will only be enabled if OS (outside air temperature sensor) is connected. From -15 °F up to 120 °F ( -26 °C up to 49 °C )			
C lock Outside air temperature mechanical cooling lockout. Default value = -40 °F ( -40 °C )	Disables cooling stage operation based on outdoor air temperature. On economizer model, free cooling will not be disabled by this function. Function will only be enabled if OS (outside air temperature sensor) is connected. From -40 °F up to 95 °F ( -40 °C up to 35 °C )			
Unocc TM Unoccupied Timer value Default 0.5 hours	Time delay between the moment where the Room Controller toggles from occupied to unoccupied after th last movement has been detected by the PIR.  Range is: <b>0.5 to 24.0 hours</b> in 0.5 hour increments			
2/4event Number of events configuration Default value = 2 event	2 events, will set up scheduling for the following Event 1 is for Occupied setpoints Event 2 is for Unoccupied setpoints 4 events, will set up scheduling for the following Event 1 is for Occupied setpoints Event 2 is for Unoccupied setpoints Event 3 is for Occupied setpoints Event 4 is for Unoccupied setpoints			

aux cont Auxiliary contact configuration Default value = N.O. normally open	This contact can be used to energize peripheral devices such as: lighting equipment, exhaust fans, economizers, etc.  This contact will operate in parallel with the internal occupied/unoccupied schedule of the Terminal Equipment Controller or the remote NSB contact if DI1 or DI2 is used.  When the system is in <b>OFF mode</b> , the contact will remain in its unoccupied status independently of the occupied / unoccupied schedule.				
	Configured	Contact occupied status	Contact unoccupied status		
	N.O.	Closed	Opened		
	N.C.	opened	Closed		
Prog rec Progressive recovery enabled Default value = Off Progressive recovery is automatically disabled if DI 1 and / or DI 2 are configured remote NSB	Off, = no progressive recovery The occupied schedule time is the time at which the system will restart.  On, = progressive recovery active. The occupied schedule time is the time at which the desired occupied temperature will be attained. The Room Controller will automatically optimize the equipment start time.  In any case, the latest a system will restart is 10 minutes prior to the occupied period time.				
Dis HL	Discharge air high temperature value at which the				
Discharge air temperature high limit		ng output will be lo			
Default: <b>120°F</b>	70°F to 150°F (21°C to 65°C) increments: (0.5° or 5°)				
Dis LL	Discharge air low temperature value at which the				
Discharge air temperature low	cooling stages will be locked out.				
limit	<b>35°F to 65°F (2.0°C to 19.0°C)</b> increments: (0.5° or 5°)				
Default: 45°F	(	0.5 015)			
MS dis Display mixed air temperature Economizer model only, only if sensor is installed	Used as diagnostic / service help to troubleshoot and diagnose economizer operation.				



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