VTR7300 Series
User Interface Guide

November 2015

CONTENTS

CONFIGURING AND STATUS DISPLAY INSTRUCTIONS

Status display

The VTR73xxA Terminal Equipment 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 Terminal Equipment Controller has an auto scrolling display that shows the status of the system. There is an option in the configuration menu to lockout the scrolling display and to only display the room temperature and conditional outdoor temperature to the user. With this option enabled, no local status of mode, occupancy and relative humidity is shown.

Each item scrolls individually with the back lighting in low level mode. Pressing any key will cause the back light to come on to high level. When left unattended for 10 seconds after changes are made, the display will resume automatic status display scrolling.

To activate the back light to high level, press any key on the front panel. The back light display will return to low level when the Terminal Equipment Controller is left unattended for 45 seconds.

Sequence of auto-scroll status display:

ROOM & HUMIDITY	SYSTEM MODE	SCHEDULE STATUS	OUTDOOR TEMPERATURE	ALARMS
x.x °C or °F XX % RH	**Sys mode auto**	**Occupied**	Outdoor x.x °C or °F	**Service**
If humidity display enabled	**Sys mode cool**	**Stand-By**	Network value only	**Filter**
RoomTemp x.x °C or °F	**Sys mode heat**	**Unoccup**	n/a	**Window**
If humidity display is not enabled	**Sys mode off**	**Override**	n/a	**Low Batt**

% RH display is conditional to:

(Humidity display is model and configuration dependent)

- Model with RH sensor built in
- Display function can be enabled with RH display parameter. Displayed range is 10 to 90 % RH

Outdoor air temperature

- Display is only enabled when outdoor air temperature network variable is received.

Occupancy status

- Occupied, Stand-By, Unoccupied and Override status are displayed on the scrolling display.

Alarms

- If alarms are detected, they will automatically be displayed at the end of the scrolling status display.
- When an alarm message is displayed, the backlit screen will illuminate at the same time as the message and shut off during the rest of the status display.
- A maximum of two alarms can appear at any given time. The priority for the alarms are as follows:

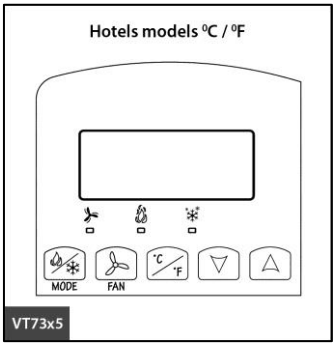
Service	Indicates that there is a service alarm as per one of the configurable binary inputs (BI2)
Filter	Indicates that the filters are dirty as per one of the configurable binary inputs (BI2)
Window	Indicates that the outside window or door is opened and that the Terminal Equipment Controller has cancelled any cooling or heating action (BI1)
Low Batt	Indicates that attached wireless switching devices (Door or window contact) have a low battery condition. (Only functional when used with a wireless communication adapter)

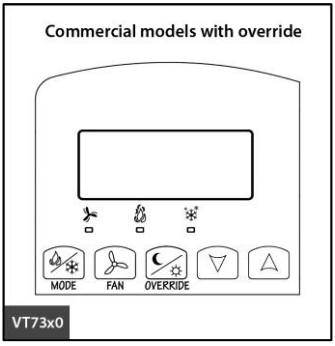
Three status LED's on the Terminal Equipment Controller cover are used to indicate the status of the fan (any speed), a call for heat, or a call for cooling.

Fan coil models

When any of the **fan speeds** are **ON**, the **FAN LED will illuminate**	
When **heating & reheat** is **ON**, the **HEAT LED will illuminate**	
When **cooling** is **ON**, the **COOL LED will illuminate**	

USER INTERFACE





Unoccupied mode override
An Override can be made on commercial models during an unoccupied period. If the Override option is enabled in the lockout configuration, pressing the middle override button will resume occupied setpoints for a time specified by the parameter “ToccTime”.

Local keypad interface

MODE	Is used to toggle between the different system modes available as per sequence and menu selected. ▪ Repetitively pressing the button will toggle between all the available modes. ▪ Available menus are dependent on selected sequence of operation.
FAN	▪ Is used to toggle between the different fan modes available as per the sequence and menu selected ▪ Repetitively pressing the button will toggle between all the available modes ▪ Available menus are dependent on selected sequence of operation and menu selected for Fan
°C / °F	▪ Hotel and lodging applications. Toggles the local user temperature scale between °F and °C
OVERRIDE	▪ Commercial and institutional applications. Set a local unoccupied timed override to occupied mode
	▪ In cooling mode only the cooling setpoint is displayed, ▪ In heating mode only the heating setpoint is displayed ▪ In auto mode, (See below)
	▪ In cooling mode only the cooling setpoint is displayed, ▪ In heating mode only the heating setpoint is displayed ▪ In auto mode, (See below)

- Any setpoint change can be permanent or temporary based on configuration parameter (Setpoint Type)
- Any setpoint written through the network, will be permanent and cancel any active temporary setpoints
- Lockouts of access to certain functions is made with configuration parameter (lockout)

Dual occupied setpoints adjustment

(Local occupied setpoint adjustment when "Stp Func" = *Dual Stp)*

COOLING MODE	HEATING MODE	OFF MODE	AUTO MODE
			▪ Setpoint presented to user is the setpoint from the last action taken by the Terminal Equipment Controller or the one currently in use. ▪ If the other setpoint is the one desired, then the MODE button is used to toggle between the current displayed one and the other.
Cool XX.X °F or °C	Heat XX.X °F or °C	No access to setpoint	Cool XX.X °F or °C or Heat XX.X °F or °C Toggle to (Heat or Cool)with MODE button

- Heat/Cool setpoint toggle with MODE button to be active only in AUTO mode.
- If cooling, heating or off mode is active, function is disabled.

Single occupied setpoints adjustment

(Local occupied setpoint adjustment when "Stp Func" = Attch *Stp)*

COOLING MODE	HEATING MODE	OFF MODE	AUTO MODE
			▪ Setpoint presented to user is the setpoint from the last action taken by the Terminal Equipment Controller or the one currently in use. ▪ Both heating and cooling setpoints are changed simultaneously while respecting the minimum configured deadband ▪ If the other setpoint is the one desired, then the MODE button is used to toggle between the current displayed one and the other.
Cool XX.X °F or °C	Heat XX.X °F or °C	No access to setpoint	Cool XX.X °F or °C and Heat XX.X °F or °C Both heating & cooling setpoints change simultaneously Toggle from (Heat or Cool) using the system MODE button

Unoccupied and stand-by setpoints adjustments

Setting of the stand-by and unoccupied setpoints is done through the network or through configuration setup only.

Mode button menu sequence.

Modes presented to the user are dependent on the sequence of operation selected.

Default mode is shown in bold when sequence of operation parameter is changed.

AutoMode set to ON = Auto system mode ACTIVE

SEQUENCE SELECTED	MODE MENU
0 = Cooling Only	Off - Cool
1 = Heating Only	Off - Heat
2 = Cooling / Heating Cooling With Electric Reheat	Off – Auto – Heat – Cool
3 = Heating With Electric Reheat	Off - Heat
4 = Electric Reheat Only	Off – Heat

AutoMode set to OFF = Auto system mode NOT ACTIVE

SEQUENCE SELECTED	MODE MENU
0 = Cooling Only	Off - Cool
1 = Heating Only	Off - Heat
2 = Cooling / Heating Cooling With Electric Reheat	Off – Heat – Cool
3 = Heating With Electric Reheat	Off - Heat
4 = Electric Reheat Only	Off – Heat

Available fan button menu sequences

FAN BUTTON MENU CONFIGURATION	MENU PRESENTED ARE DEPENDENT ON MODEL USED AND SEQUENCE OF OPERATION SELECTED	DEFAULT VALUE WHEN SEQUENCE TOGGLED
0 Low-Med-High	3 Speed configuration using 3 fan relays (L-M-H)	**High**
1 Low-High	2 Speed configuration using 2 fan relays (L-H)	**High**
2 Low-Med-High-Auto	3 Speed configuration with Auto fan speed mode using 3 fan relays (L-M-H-A)	**High**
3 Low-High-Auto	2 Speed configuration with Auto fan speed mode using 2 fan relays (L-H-A)	**High**
4 On-Auto	Single Speed configuration. Auto is for Fan on demand / On is On all the time	**Auto**

Auto speed fan mode is also offered in heating mode applications; it will not have any effect on dehumidification. It will strictly be used for noise comfort issues.

Auto Speed Fan Mode operation for sequences 2 and 3 is dependent on Auto Fan parameter. When Auto Fan is set to:

- AS (Default) = Auto Speed during occupied periods. Fan is always on during occupied periods. Low, medium and high speeds operate on temperature offset from setpoint.
- AS AD = Auto Speed / Auto Demand during occupied periods.
    - Medium and high speeds operate on temperature offset from setpoint.
    - Low speed operates on demand and will shut down when no demand is present.

INSTALLER CONFIGURATION PARAMETER MENU

Configuration can be done through the network or locally at the Terminal Equipment Controller.

- To enter configuration, press and hold the middle button (°C/°F or Override) for 8 seconds.
- If a password lockout is active, "*Password*" is prompted. Enter password value using the "*up*" and "*down*" arrows and press the middle button again to gain access to all configuration properties of the Terminal Equipment Controller. Entering a wrong password will prevent local access to the configuration menu.
- Press the same middle button repetitively to scroll between all the available parameters.
- Use the up and down key to change the parameter to the desired value.
- To acknowledge and save the new value, press the middle button again.
- The next parameter will now be displayed.

Configuration interface

	Re-starts the configuration parameter list from the beginning
	Enters the configuration mode. Press and hold for 8 seconds
	Pressing repetitively will individually scroll all the available parameters
	Adjust / rotate parameter value down
	Adjust / rotate parameter value up

CONFIGURATION PARAMETERS DEFAULT VALUE	SIGNIFICANCE AND ADJUSTMENTS
PswrdSet Configuration parameters menu access password Default value = **0** Range is: 0 to 1000	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

Com Addr Terminal Equipment Controller networking address Default value = **254** Range is: 0 to 254	**Conditional parameter to BACnet™ MS-TP models VTR73xxX5x00B** **Conditional parameter to Wireless models VTR73xxX5x00W** ▪ For BACnet™ MS-TP models, the valid range is from 1 to 127. Default value of 254 disables BACnet™ communication for the Terminal Equipment Controller. For wireless models, the valid range is 0 to 254 with a maximum of 30 Terminal Equipment Controller per VWG
PAN ID Personal Area Network Identification Default value = **0** Range is: 0 to 1000	**Conditional parameter to Wireless models VTR73xxX5x00W** This parameter will only appear when a wireless network adapter is present. If the Terminal Equipment Controller is installed as a stand-alone 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 Terminal Equipment Controllers to a single specific Viconics wireless gateway (VWG). For every Terminal Equipment Controller reporting to a gateway (maximum of 30 Terminal Equipment Controllers per gateway), be sure you set the *SAME* PAN ID value both on the gateway and the Terminal Equipment Controller(s). The default value of 0 is *NOT* a valid PAN ID. The valid range of available PAN ID is from 1 to 1000. Range 1 to 500 for centralized networked applications using a VWG or a Jace with the wireless stat driver Range 501 to 1000 is for stand-alone applications where no VWG or Jace with the wireless stat driver is used.

Channel Channel selection Default value = **10** Range is: 10 to 26	**Conditional parameter to Wireless models VTR73xxX5x00W** This parameter will only appear when a wireless network adapter is present. If the Terminal Equipment Controller is installed as a stand-alone unit or with a BACnet™ or Echelon™ adapter, this parameter will not be used or displayed. This parameter (Channel) is used to link specific Terminal Equipment Controllers to specific Viconics wireless gateway(s) (VWG). For every Terminal Equipment Controller reporting to a gateway (maximum of 30 Terminal Equipment Controllers per gateway), be sure you set the *SAME* channel value both on the gateway and the Terminal Equipment 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

Get From Terminal Equipment Controller Get From another device configuration utility Default value = **0** Range is: 0 to 254	**Conditional parameter to Wireless models VTR73xxX5x00W** Entering a MAC address enables an automatic routine that automatically fetches all the required configuration properties of the current device from another already configured device and copies the same required configured property values. If a value other than the default value of 255 is entered, user will then be prompted to exit the Configuration Menu thus leaving all other parameter configuration to be copied from the referenced controller MAC address. Ex.: If you are currently configuring MAC12 and the settings matches exactly the settings of ZN MAC5, then enter 5 as the current parameter value. ▪ If the process is successful and all required configuration properties have been copied, the value will revert back to 255 ▪ If the process is *NOT* successful and all required configuration properties have NOT been copied (either the reference device is *NOT* the same model number or is offline or does not exists) the value will revert back to 254 to indicate the failure of the process **Leaving the Get From parameter to 255 means that every configuration parameters will be set manually.**
BI 1 Binary input no.1 configuration Default value **= None**	**(None):** No function will be associated with the input. Input can be used for remote network monitoring. **(Rem NSB):** remote NSB timer clock input. The scheduling will now be set as per the binary input. It provides low cost setback operation via a dry contact ▪ Contact opened = Occupied ▪ Contact closed = Unoccupied **(Motion NO) or (Motion NC):** Advanced PIR occupancy functions using a Normally Open (NO) or Normally Closed (NC) remote PIR motion sensor. Occupancy mode is now set as per applied PIR function and configuration. Application information and examples are available in document: *APP-PIR-Guide-Exx.* This document will provide the installers and system designers with detailed examples on applications, parameter configuration information, sequence of operation, troubleshooting and diagnostic help required for the proper usage of the PIR accessory covers **(Window) EMS:** Forces the system to disable any current heating or cooling action by the Terminal Equipment Controller. The mode stays the same and the current setpoints are the same Occupied setpoints. Only the outputs are disabled. There is a Door/Window alarm displayed on the Terminal Equipment Controller to indicate to the local tenant that the door/window needs to be closed for cooling or heating to resume. ▪ Contact opened = Window Opened ▪ Contact closed = Window Closed

BI 2 Binary input no.2 configuration Default value = **None**	**(None):** No function will be associated with the input. Input can be used for remote network monitoring. **(Door Dry) Door contact & Motion detector:** This configuration is only functional if binary input #1 is set to **Motion NO** or **Motion NC** or a **PIR accessory cover** is used. With this sequence enabled, the occupancy is now commanded through those 2 inputs. Any motion detected will set the zone to occupied status. The zone will remain in occupied mode until the door contact switch opens and closes. The Terminal Equipment Controller will then go in stand-by mode. If more movements are detected, the occupied mode will resume. While the door is opened, any movements detected by the remote PIR sensor or the PIR accessory cover will be ignored. Use a Normally Closed contact switching device. ▪ Contact opened = Door opened ▪ Contact closed = Door closed
RUI 1 Remote Universal input no.1 configuration Default value **= None**	**(None):** No function will be associated with the input. Input can be used for remote network monitoring. **(COC/NH) Change over dry contact. Normally Heat:** Used for hot / cold water or air change over switching in 2 pipe systems. ▪ Contact closed = Cold water or air present ▪ Contact opened = Hot water or air present Only used and valid if system is setup as 2 pipes. Parameter (Pipe No) set as 2 pipes. **(COC/NC) Change over dry contact. Normally Cool:** Used for hot / cold water or air change over switching in 2 pipe systems. ▪ Contact closed = Hot water present ▪ Contact opened = Cold water present Only used and valid if system is setup as 2 pipes. Parameter (Pipe No) set as 2 pipes. **(COS) Change over analog sensor:** Used for hot / cold water or air change over switching in 2 pipe systems. Only used and valid if system is setup as 2 pipes. Parameter (Pipe No) set as 2 pipes. ▪ If water temperature is > 78 °F = Hot water present ▪ If water temperature is < 75 °F = Cold water present **(Filter):** A backlit flashing **Filter** alarm will be displayed on the Terminal Equipment Controller LCD screen when the input is energized. It can be tied to a differential pressure switch that monitor filters.

RUI 1 Cont'd	▪ Contact opened = No alarm ▪ Contact closed = Alarm displayed **(Service):** A backlit flashing **Service** alarm will be displayed on the Terminal Equipment Controller LCD screen when the input is energized. It can be tied in to the AC unit control card, which provides an alarm in case of malfunction. ▪ Contact opened = No alarm ▪ Contact closed = Alarm displayed
RBI 2 Remote Binary input no.2 configuration Default value = **None**	**(None):** No function will be associated with the input. Input can be used for remote network monitoring. **(Filter):** a backlit flashing Filter alarm will be displayed on the Terminal Equipment Controller LCD screen when the input is energized. It can be tied to a differential pressure switch that monitor filters. ▪ Contact opened = No alarm ▪ Contact closed = Alarm displayed ▪ **(Service):** a backlit flashing Service alarm will be displayed on the Terminal Equipment Controller LCD screen when the input is energized. It can be tied in to the AC unit control card, which provides an alarm in case of malfunction. ▪ Contact opened = No alarm ▪ Contact closed = Alarm displayed
MenuScro Menu scroll Default value = **On** = **Scroll active**	Removes the scrolling display and displays the room temperature/humidity to the user. With this option enabled, no mode, schedule and outdoor temperature status is given. ▪ **On = Scroll active** ▪ **Off = Scroll not active**
AutoMode Enables **Auto** menu for Mode button Default value = **On**	Enables Auto function for the mode button For sequences 2, 4 & 5 only ▪ **On = Auto active** (Off-Cool-Heat-Auto) ▪ **Off = auto not active** (Off-Cool-Heat)
C or F Sets scale of the Terminal Equipment Controller Default value = **°F**	▪ °F for Fahrenheit scale ▪ °C for Celsius scale On hotel models, this sets the default value when the Terminal Equipment Controller powers up

%RH disp **Local %RH Display** Default value = **Off** Models with Humidity sensor only	**Conditional parameter to Humidity models VTR735xX5x00(X)** Enables the display of humidity value below the room temperature value on the display ▪ **On** = Display %RH ▪ **Off** = No display of %RH
Lockout Keypad lockout levels Default value = **0 No lock**	

USER KEY FUNCTIONS

LEVEL				
0	🔓	🔓	🔓	🔓
1	🔓	🔓	🔒	🔓
2	🔒	🔒	🔓	🔓
3	🔒	🔒	🔒	🔓
4	🔒	🔒	🔓	🔒
5	🔒	🔒	🔒	🔒

PulsedHt VDC output configuration Default Value = **Off**	VDC output configuration. VC3000 series model dependent ▪ **Off** = Regular On-Off control for VC350xE models only Can be used with 2 & 4 pipes applications ▪ **On** = VDC SSR electric heat 10 second pulsed time base modulation for VC340xE models only Can only be used with 2 pipes system only. • **Occ Out** = VDC Occupancy output follows local device occupancy for VC3514E model only. • ❖ Occupied & Temporary Occupied = Contact closed ❖ Stand-By & Unoccupied = Contact opened
Pipe No System type installation Number of pipes Default is: **4.0 Pipes**	Defines the type of system installed **2.0** Pipes, will limit the number of sequences of operation available from 0 to 4 Will enable heat/cool operation from the same output **4.0** Pipes, can access all the sequences of operation from 0 to 2 Will enable heat/cool operation from different output

SeqOpera Sequence of operation Default is: **Sequence #1**	Selects the initial sequence of operation required by the installation type and the application	
	SYSTEM = 2 PIPES	**SYSTEM = 4 PIPES**
0 = Cooling Only	Available	Available
1 = Heating Only	Available	Available
2 = Cooling / Heating or **Cooling With Electric Reheat**	Available Cooling With Electric Reheat	Available Cooling / Heating
3 = Heating With Electric Reheat	Available	Not available
4 = Electric Reheat Only	Available	Not available
	For 2 Pipe output applications, the system access is limited if RUI 1 is configured for local changeover COS, COC/NC or COC/NC. The current water temperature detected by the RUI 1 then limits the system mode available for the local configuration or network write. For sequence 2 & 3, set PulsedHt to On to enable pulsed electric reheat applications with VR7300B & E	
Fan Menu Mode button menu configuration Default is: **Menu #4**	Menu displayed are dependent on model used and sequence of operation selected Auto Mode operation for sequences 2 and 3 is dependent on Auto Fan parameter	
0 = Low-Med-High	**3 Speed configuration** using 3 fan relays (L-M-H)	
1 = Low-High	**2 Speed configuration** using 2 fan relays (L-H)	
2 = Low-Med-High-Auto	**3 Speed configuration** with Auto fan speed mode using 3 fan relays (L-M-H-A)	
3 = Low-High-Auto	**2 Speed configuration** with Auto fan speed mode using 2 fan relays (L-H-A)	
4 = On-Auto	**Single Speed configuration**. Auto is for Fan on demand / On is On all the time	
DHumiLCK Dehumidification lockout Default value: **On = Authorized**	**Conditional parameter to Humidity models VTR735xX5x00(X)** Typically toggled via the network. This variable enables or disables dehumidification based on central network requirements from the BAS front end ▪ On = Dehumidification Authorized ▪ Off = Dehumidification Not Authorized	

%RH set Dehumidification setpoint Default is **50 % RH**	**Conditional parameter to Humidity models VTR735xX5x00(X)** Used only if dehumidification sequence is enabled: Range is: **30-95% RH**
DehuHyst Dehumidification Hysterisys Default is **5 % RH**	**Conditional parameter to Humidity models VTR735xX5x00(X)** Humidity control hysterisys. Used only if dehumidification sequence is enabled: Range is: **2 to 20% RH**
DehuCool Maximum Dehumidification Cooling output Default is **100 %**	**Conditional parameter to Humidity models VTR735xX5x00(X)** Maximum cooling valve position when dehumidification is enabled. This can be used to balance smaller reheat loads installed relative to the capacity of the cooling coil. Range is: **20 to 100 %**
St-By TM Stand-by Timer value Default **0.5 hours**	Time delay between the moment when the PIR sensor detected the last movement in the area and the time when the Terminal Equipment Controller stand-by mode and setpoints become active. Range is: **0.5 to 24.0 hours** in 0.5hr increments
Unocc TM Unoccupied Timer value Default **0.0 hours**	Time delay between the moment when the Terminal Equipment Controller toggles to stand-by mode and the time when the Terminal Equipment Controller unoccupied mode and setpoints become active. The factory value or **0.0 hours**: Setting this parameter to its default value of 0.0 hours disables the unoccupied timer. This prevents the Terminal Equipment Controller to drift from stand-by mode to unoccupied mode when PIR functions are used Range is: **0.0 to 24.0 hours** in 0.5hr increments
St-By HT Stand-by heating setpoint Default value = **69 °F**	The value of this parameter should reside between the occupied and unoccupied heating setpoints and make sure that the difference between the stand-by and occupied value can be recovered in a timely fashion when movement is detected in the zone. Stand-by heating setpoint range is: **40 to 90 °F (4.5 to 32.0 °C)**
St-By CL Stand-by cooling setpoint limit Default value = **78 °F**	The value of this parameter should reside between the occupied and unoccupied cooling setpoints and make sure that the difference between the stand-by and occupied value can be recovered in a timely fashion when movement is detected in the zone. Stand-by cooling setpoint range is**: 54 to 100 °F (12.0 to 37.5 °C)**

<table>
<tr><td>Unocc HT
Unoccupied heating setpoint
Default value = 62 °F</td><td>Unoccupied heating setpoint range is:
40 to 90 °F (4.5 to 32.0 °C)</td></tr>
<tr><td>Unocc CL
Unoccupied cooling setpoint limit
Default value = 80 °F</td><td>Unoccupied cooling setpoint range is:
54 to 100 °F (12.0 to 37.5 °C)</td></tr>
<tr><td>Heat max
Maximum heating setpoint limit
Default value =
90 °F (32 °C)</td><td>Maximum occupied & unoccupied heating setpoint adjustment.

Heating setpoint range is: 40 to 90 °F (4.5 to 32.0 °C)</td></tr>
<tr><td>Cool min
Minimum cooling setpoint limit
Default value =
54 °F (12 °C)</td><td>Minimum occupied & unoccupied cooling setpoint adjustment.

Cooling setpoint range is: 54 to 100 °F (12.0 to 37.5 °C)</td></tr>
<tr><td>Pband
Proportional band setting
Default is : 3</td><td>Adjust the proportional band used by the Terminal Equipment Controller PI control loop.

Note that the default value of 3.0 °F (1.2 °C) gives satisfactory operation in most normal installation cases. The use of a proportional band different than the factory one is normally warranted in applications where the Terminal Equipment Controller location is problematic and leads to unwanted cycling of the unit. A typical example is a wall mounted unit where the Terminal Equipment Controller is installed between the return and supply air feeds and is directly influenced by the supply air stream of the unit.

<table>
<tr><th>VALUE</th><th>°F SCALE PBAND</th><th>°C SCALE PBAND</th></tr>
<tr><td>3</td><td>3 F</td><td>1.2 C</td></tr>
<tr><td>4</td><td>4 F</td><td>1.7 C</td></tr>
<tr><td>5</td><td>5 F</td><td>2.2 C</td></tr>
<tr><td>6</td><td>6 F</td><td>2.8 C</td></tr>
<tr><td>7</td><td>7 F</td><td>3.3 C</td></tr>
<tr><td>8</td><td>8 F</td><td>3.9 C</td></tr>
<tr><td>9</td><td>9 F</td><td>5.0 C</td></tr>
<tr><td>10</td><td>10 F</td><td>5.6 C</td></tr>
</table>
</td></tr>
</table>

Set Type Temporary setpoint enable Default is : **Permnent** Enables temporary setpoints feature to any change of occupied or unoccupied setpoint.	**Temporar:** (temporary) Local changes to the heating or cooling setpoints by the user are temporary. They will remain effective for the duration specified by “ToccTime”. Setpoints will then revert back to their default value after internal timer “ToccTime” expires. To change setpoints permanently, revert this variable to **No** or write setpoints through the network. Any setpoints written through the network will be permanent and saved to EEPROM. **Permnent:** (permanent) Any change of occupied or unoccupied setpoints through the keypad by the user are permanent and saved to & EEPROM
SptFunc Local setpoint settings Default value = **Dual Stp**	Set the local setpoint interface for the user ▪ **Dual Stp** (Dual Occupied Setpoints Adjustment) ▪ **AttchStp** (Single Occupied Setpoint Adjustment)
TOccTime Temporary occupancy time Default value = **2 hours**	Temporary occupancy time with occupied mode setpoints when override function is enabled. When the Terminal Equipment Controller is in unoccupied mode, function is enabled with either the menu or UI2 configured as remote override input. Range is: **0,1, 2, 3, 4, 5, 6, 7, 8, 9, 10, & up to 24 hours**
Deadband Minimum deadband Default value = **2.0 °F (1.0 °C)**	The minimum deadband value between the heating and cooling setpoints. When modified, it will take effect only when any of the setpoints are modified again. Range is: **2, 3, 4 or 5 °F, 1.0 °F increments (1.0 to 2.5 °C, 0.5 °C increments)**
Cal RS Room temperature sensor calibration Default value = 0.0 °F or °C	Offset that can be added/subtracted to the actual displayed room temperature Range is: **± 5.0 °F, 1.0 °F increments (± 2.5 °C, 0.5 °C increments)**
Cal RH Humidity sensor calibration Default value = **0 %RH**	Offset that can be added/subtracted to the actual displayed humidity by ± 15.0 %RH. Range is **: ± 15.0 %RH**

Auto Fan Auto Fan Function Default value: **AS**	Auto Speed Fan Mode operation for Fan Sequences 2 and 3 **AS = Auto Speed** during occupied periods. Fan is always on during occupied periods. **AS AD = Auto Speed / Auto Demand** during occupied periods.
Cool cph Cooling output cycles per hour Default value = **4 C.P.H.**	Will set the maximum number cycles per hour 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 accuracy of control at the expense of wearing mechanical components faster. Range is: **3, 4, 5, 6,7 & 8 C.P.H.**
Heat cph Heating output cycles per hour Default value = **4 C.P.H.**	Will set the maximum number cycles per hour 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 accuracy of control at the expense of wearing mechanical components faster. Range is: **3, 4, 5, 6, 7 & 8 C.P.H.**
CoolNoNc Normally open or close device Default value = **NC**	Adjust the type of valve used for heating ▪ **NC** = Valve is normally closed when no power is present ▪ **NO** = Valve is normally opened when no power is present
HeatNoNc Normally open or close device Default value = **NC**	Adjust the type of valve used for heating ▪ **NC** = Valve is normally closed when no power is present ▪ **NO** = Valve is normally opened when no power is present
Fan cont Fan control Default value = **On**	Fan control in heating mode. **On**; the controller in all cases will always control the fan (terminals Low-Med—Hi Fan Speed). Valid in any fan sequences and all the available fan modes **Off Auto**; the controller in all cases will disable the fan (any terminals Low-Med—Hi Fan Speed). ONLY when the local fan mode is set to Auto. Valid in all fan sequences with auto mode **Off All**; the controller in all cases will disable the fan (any terminals Low-Med—Hi Fan Speed). When the local fan mode is set to ANY mode. Valid in all fan sequences and all local fan modes

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