PIR Ready SE7600W Series

With & Without Local Schedule
Water Source Heat Pump
Terminal Equipment Controller

Installation Guide
For Commercial HVAC Applications

CONTENTS

Installation **2**
Location 2
Installation 2
Operation Overview **3**
Features overview 3
Model Chart **3**
Network ready 4
Terminal, Identification and Function **4**
Screw terminal arrangement and wiring 4
Main outputs wiring 4
Typical Applications **5**
Remote sensor accessories 5
Configuring and Status Display Instructions **8**
Status display 8
User interface **9**
User configuring instructions menu 9
Local keypad interface 9
Occupied setpoints adjustment 10
Installer Configuration Parameter Menu **14**
Troubleshooting guide **22**
Specifications **23**
Drawing & Dimensions **24**

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INSTALLATION

Inspection

- Remove the security screw on the bottom of the Terminal Equipment Controller cover.
- Open the unit by pulling on the bottom side of Fan Coil Terminal Equipment Controller (Figure-1).
- Remove the wiring terminals from the sticker.
- Please read the FCC ID and IC label installed in the cover upon removal of the cover for the wireless products.

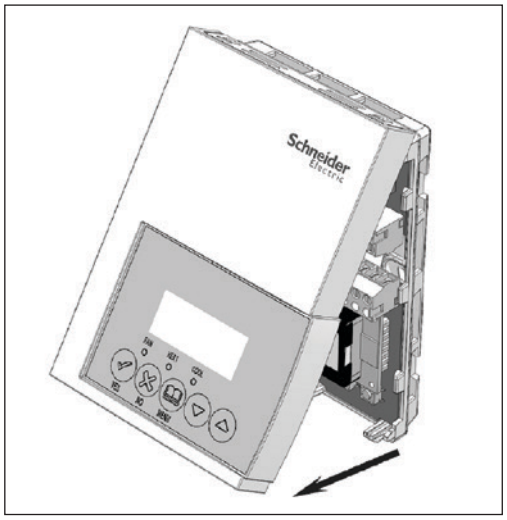

Figure-1 Opening the Cover

Location

- Do not install on an outside wall.
- Install away from any direct heat source.
- Do not install near an air discharge grill.
- Do not locate in direct sun radiation.
- Nothing should restrict vertical air circulation to the Terminal Equipment Controller.

Installation

1. Swing open the Fan Coil Terminal Equipment Controller PCB to the left by pressing the two PCB retaining tabs (Figure-2).
2. Pull the cables 6" out from the wall.
3. The wall surface must be flat and clean.
4. Insert the cable into the central hole of the base.
5. Align the base and mark the location of the two mounting holes on the wall. Install the proper side of the base upward.
6. Install the screw anchors in the wall.
7. Insert screws in the mounting holes on each side of the base (Figure-2).
8. Gently swing back the circuit board on the base and push on it until the tabs lock it.
9. Strip each wire 1/4 inch from the end.
10. Insert each wire according to the wiring diagram.
11. Gently push excess wiring back into the hole in the base.
12. Reinstall the wiring terminals in their correct locations (Figure-3).
13. Reinstall the cover (top side first) and gently push any extra wire length back into the hole in the wall.
14. Install the security screw.

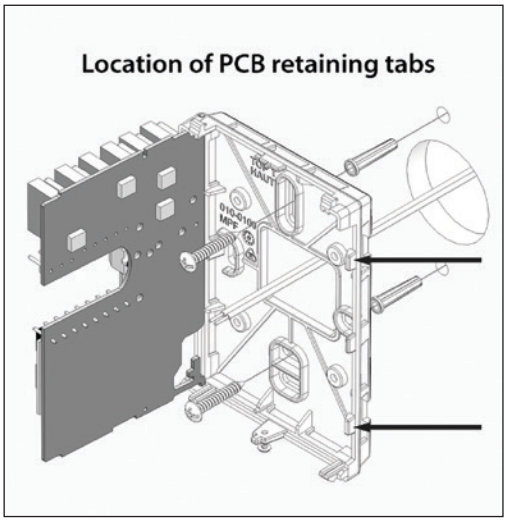

Figure-2 Opening the PCB

Installation

If replacing an existing Terminal Equipment Controller, label the wires before removal of the Terminal Equipment Controller.

Electronic controls are static sensitive devices. Discharge yourself properly before manipulating and installing the Terminal Equipment Controller.

A short circuit or wrong wiring may permanently damage the Terminal Equipment Controller or the equipment.

All SE7000 series Terminal Equipment Controllers are designed for use as operating controls only and are not safety devices. These instruments have undergone rigorous tests and verification prior to shipping to ensure proper and reliable operation in the field. Whenever a control failure could lead to personal injury and/or loss of property, it becomes the responsibility of the user / installer / electrical system designer to incorporate safety devices (such as relays, flow switch, thermal protections, etc...) and/or an alarm system to protect the entire system against such catastrophic failures. Tampering with the devices or unintended application of the devices will result in a void of warranty.

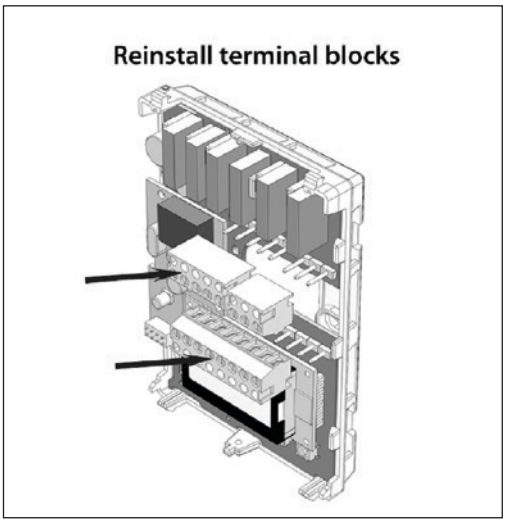

Figure-3 Terminal Block Reinstall

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OPERATION OVERVIEW

The SE7600W uses a Schneider Electric proprietary adaptive logic algorithm to control the space temperature. This algorithm controls the heating and air conditioning system to minimize overshoot while still providing comfort. It provides exceptional accuracy due to its unique PI time proportioning control algorithm, which virtually eliminates the temperature offset associated with traditional, differential-based, on-off Terminal Equipment Controllers. Note the comparison in Figure-4.

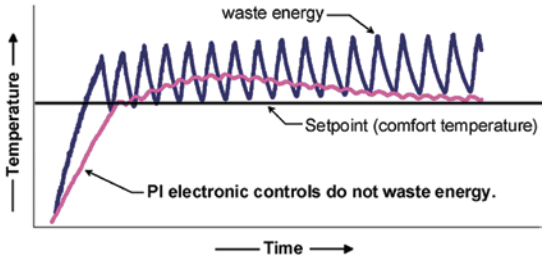


Figure-4 On-Off Mechanical vs PI Electronic Control

FEATURES OVERVIEW

- Built-in dehumidification control function with local ambient humidity sensing
- 7 day schedule models, 2 or 4 events
- Selectable single or dual compressor stages
- Remote indoor averaging sensing capability
- Temperature averaging with 2, 3, 4, 9 or 16 sensors
- System mode lock out
- Remote discharge air temperature sensor input for monitoring purpose
- Remote water temperature sensor input for monitoring purpose
- Lockable keypads for tamper proofing. No need for a separate guards
- Anti short cycle and minimum on/off run time protection. Reduces wear and maximizes life span of mechanical equipment.
- Configurable smart fan operation saves energy during night mode
- Non volatile EEPROM memory prevents loss of parameters during power shortage
- Built in default profile set-up for easier start up and commissioning
- Configurable SPST output relay for lighting, exhaust fan or fresh air control
- 6 hour typical reserve time for clock in case of power loss on scheduling models

- 2 configurable digital inputs for added flexibility. Each input can be configured as the following:

None: No function will be associated with the input

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.

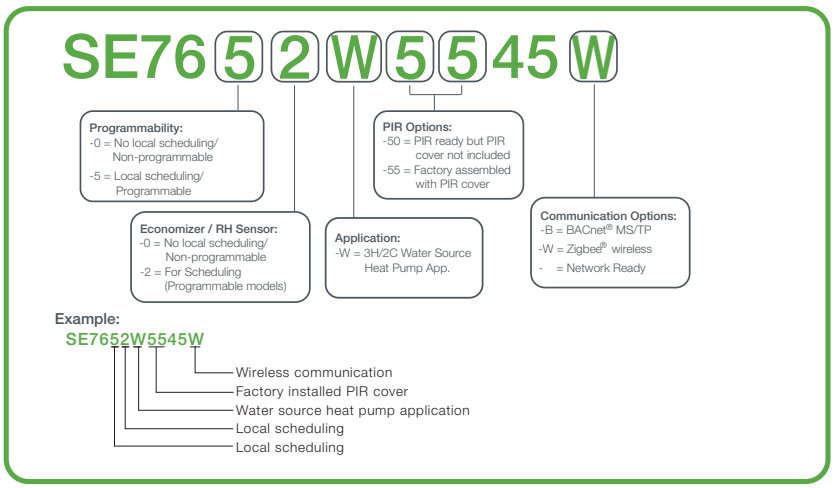
Filter: A backlit flashing Filter alarm will be displayed on the Terminal Equipment Controller LCD screen when the input is energized. It can be tied to a differential pressure switch that monitor filters

Rem NSB: Remote NSB timer clock input. Will disable the internal scheduling of the Terminal Equipment Controller. The scheduling will now be set as per the digital input. The menu part related to scheduling is disabled and no longer accessible. It provides low cost setback operation via occupancy sensor or from a dry contact

RemOVR: Temporary occupancy contact. Disables all override menu function of the Terminal Equipment Controller. . 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.

Fan lock: Used in conjunction with a local air flow sensor connected to the input. Locks out the Terminal Equipment Controller heating and cooling action and displays a local alarm if no air flow is detected 10 seconds after the fan (G terminal) is energized.

MODEL CHART



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NETWORK READY

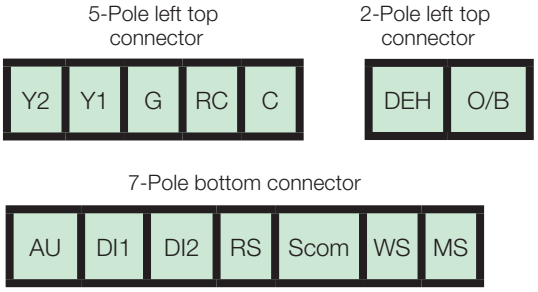
- All Schneider Electric SE7600 series Terminal Equipment Controllers (TEC) are designed for stand-alone (Network Ready) operation.
- They can be fully integrated into your choice of automation systems using the available communication adapter options.
- If required, stand-alone (Network Ready) TECs can be field retrofitted with the following communication adapters:
  - VCM7000V5045W wireless Zigbee® communication adapter.
  - VCM7600V5045B BACnet® MS-TP® communication adapter.

TERMINAL IDENTIFICATION

Water Source Heat Pump		
Part Number	SE7652W	SE7600W
Schedule	Yes	No
Top left terminal block		
Y2	X	X
Y1	X	X
G	X	X
RC	X	X
C	X	X
Top right terminal block		
DEH	X	X
O/B	X	X
Bottom terminal block		
Aux	X	X
DI1	X	X
DI2	X	X
RS	X	X
Scom	X	X
WS	X	X
MS	X	X

MAIN OUTPUTS WIRING

Screw Terminal Arrangement



Wiring Notes

Note 1

Electromechanical contacts are to be used with the digital inputs. Electronic triacs cannot be used as mean of switching for the input. The switched leg to the input for the input to activate is terminal C (common)

Note 2

The transformer of the unit provides power to the Terminal Equipment Controller and the additional loads that will be wired to the Terminal Equipment Controller.

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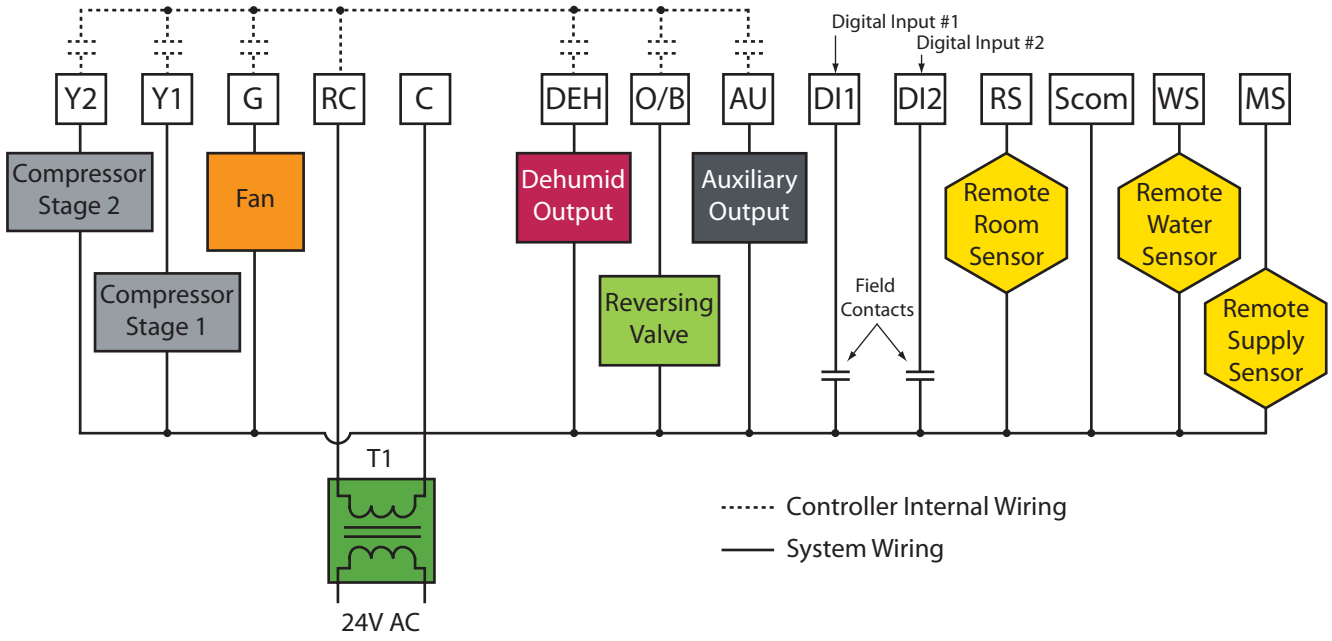
TYPICAL APPLICATIONS

SE7600W5X45(X)
Water Source Heat pump / Without Schedule



REMOTE SENSOR ACCESSORIES

Applicable Models

Model	Description	Application	Picture
SE3010W1045	Room sensor	• Remote room sensing • 3 thermistors with 2 dip switches are provided with each sensor for various averaging combinations	
SE3020W1045	Room sensor with temporary override key and occupancy LED	• Remote room sensing with override key and occupancy LED • 3 thermistors with 2 dip switches are provided with each sensor for various averaging combinations	

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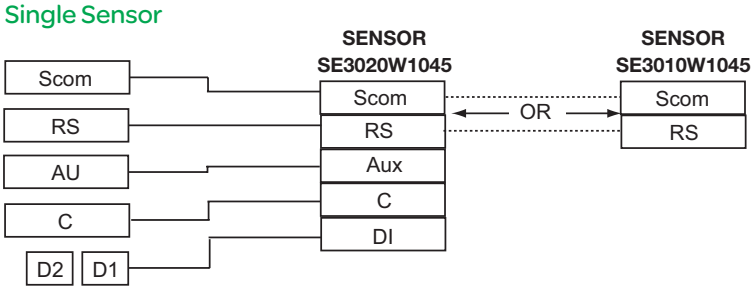
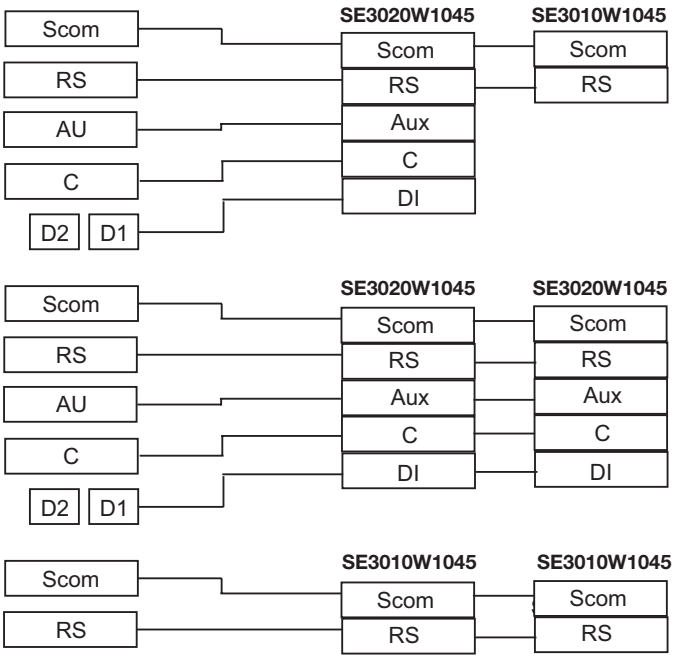
REMOTE TEMPERATURE SENSORS

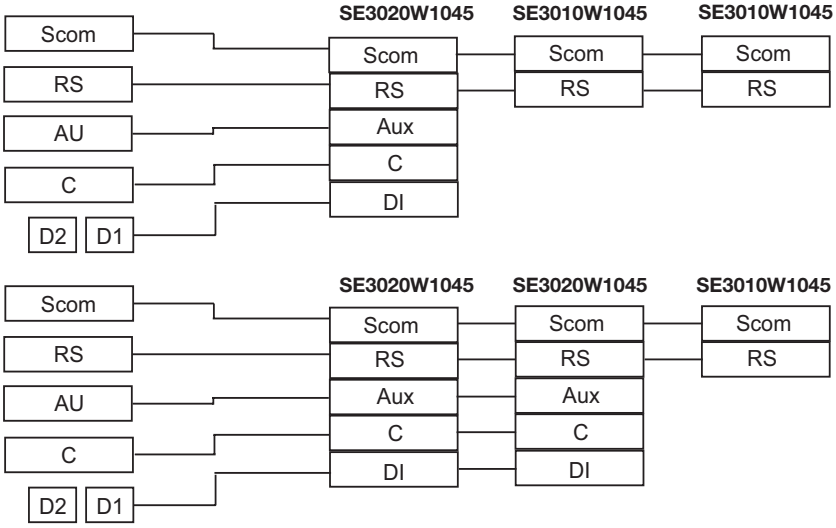
Single Sensor



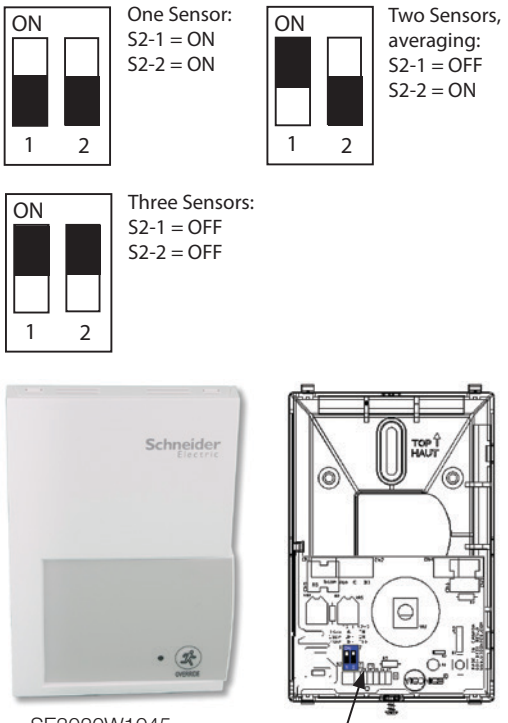
Two Sensor Averaging Application



Three Sensor Application



Temp. Sensor DIP Switch Settings



SE3020W1045
Remote temperature sensor DIP switch location

Temperature vs. resistance chart for 10 Kohm NTC thermistor

°C	°F	Kohm
-40	-40	324.3197
-35	-31	234.4009
-30	-22	171.3474
-25	-13	126.6109
-20	-4	94.5149
-15	5	71.2430
-10	14	54.1988
-5	23	41.5956
0	32	32.1910
5	41	25.1119
10	50	19.7390
15	59	15.6286
20	68	12.4601
25	77	10.0000
30	86	8.0694
35	95	6.5499
40	104	5.3467
45	113	4.3881
50	122	3.6202
55	131	3.0016

($R_{25°C}$ = 10KΩ±3%, B25/85°C = 3975K±1.5%)

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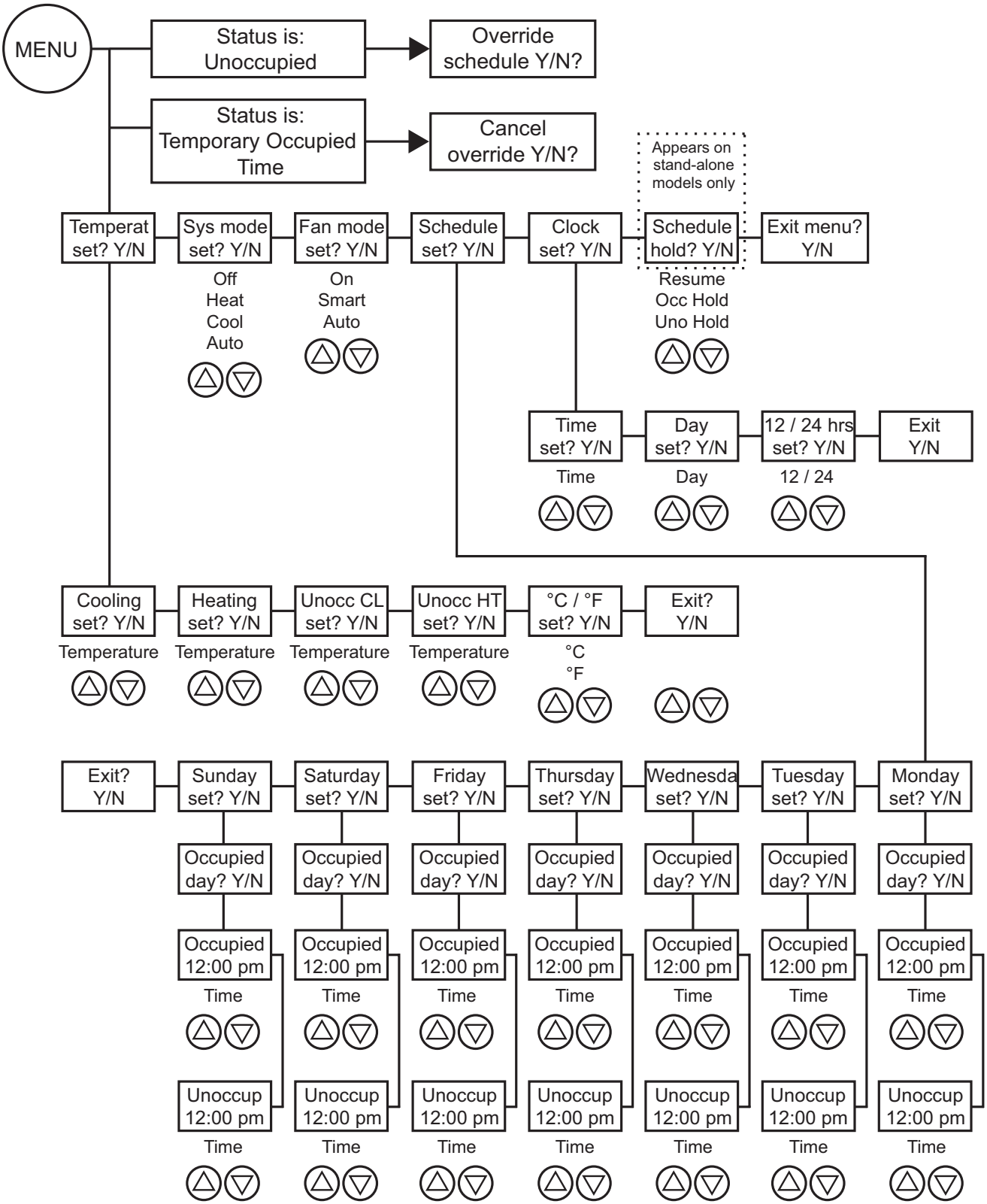
CONTROLLER MENU FLOW CHART

(Prompts may not all be present depending on the controller model selected.)



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CONFIGURING AND STATUS DISPLAY INSTRUCTIONS

Status Display

The TEC (Terminal Equipment Controller) features a two-line, eight-character display. A low-level, always-active backlight can be seen only at night.

Left unattended, the TEC shows an auto scrolling display that indicates the status of the system. Each item is scrolled one by one with the back lighting in low level mode. Pressing any key will cause the back light to increase 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.

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

LED OPERATION	HEATPUMP MODELS
Fan LED on	When Fan terminal G operates
Heating LED on	When terminal Y1 operates in heating mode
Cooling LED on	When terminal Y1 operates in cooling mode

Outdoor air temperature

- The outdoor air temperature display is only enabled when the 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) indicates an open-circuited sensor or a sensor not connected. Associated functions, such as mode lockouts and economizer function are automatically disabled.

Sequence of auto-scroll status display

ROOM TEMP.	CLOCK STATUS	SYSTEM MODE	SCHEDULE STATUS	OUTDOOR TEMP.	ALARMS
x.x °C or °F XX % RH	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	Unoccup hold		Filter
					Fan lock

Alarms

- If alarms are detected, they will be displayed automatically 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:

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 inputs (DI1 or DI2).
Filter	Indicates that the filters are dirty as per one of the configurable digital inputs (DI1 or DI2).
Fan lock	Indicates that the heating and cooling action are locked out due to a fan malfunction.

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USER INTERFACE

User Configuring Instructions Menu

The SE7600 series of Terminal Equipment Controller feature an intuitive, menu-driven, back-lit LCD display that walks users through the configuring steps, making the configuring process extremely simple. This menu is typically accessed by the user to set the parameters such as temperature and time events, system mode, fan mode, etc...

It is possible to bring up the user menu at any time by pressing 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 Terminal Equipment Controller.

Example: Press the YES key to change the cooling temperature setpoint. Use the Up/Down Arrow keys to adjust the cooling setpoint.

Each of the sections in the menu is accessed and configured using 5 keys on the Terminal Equipment Controller cover.

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 light will turn off when the Terminal Equipment Controller is left unattended for 45 seconds.

Local Keypad Interface

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

Sequence of User Menu

OVERRIDE RESUME	TEMP. SET POINTS	SYSTEM MODE SETTING	FAN MODE SETTING	SCHEDULE SETTING	CLOCK SETTING	SCHEDULE HOLD
Override schd? Y/N (Appears only in unoccupied mode)	Temperat Set? Y/N	Sys mode set? Y/N	Fan mode set? Y/N	Schedule set? Y/N	Clock set? Y/N	Schedule hold? Y/N [Appears only on stand-alone (Network Ready) models]
Cancel ovrd? Y/N (Appears only in override mode)						

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Occupied setpoints adjustment

There is a default profile set in the Terminal Equipment Controller from the factory. This enables the Terminal Equipment Controller to operate as a non-scheduling unit in day mode operation at start up.

DEFAULT TEMPERATURE SETPOINTS		DEFAULT MODES
Occupied cooling setpoint = 24 °C (75 °F)		System mode = Auto
Occupied heating setpoint = 22 °C (72 °F)		Fan mode = Smart (for models with a communication module or scheduling network ready models)
Unoccupied cooling setpoint = 28 °C (82°F)		Fan mode = Auto (for non-scheduling network ready models)
Unoccupied heating setpoint = 18 °C (65°F)		**DEFAULT SCHEDULES**
Fahrenheit scale		Monday through Sunday
Setpoint type = permanent		Occupied time is: 12 00 AM
		Unoccupied time is: 11:59 PM

There will be a 1 minute unoccupied period every night at 11:59 PM with this default configuration.

A) Override an unoccupied period

Override schd? Y/N

This menu will appear only when the Terminal Equipment 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 Terminal Equipment Controller to go into occupied mode for an amount of time equal to the parameter “TOccTime” (1 to 12 hours).

B) Resume regular scheduling

Cancel ovrd? Y/N

This menu does not appear in regular operation. It will appear only when the Terminal Equipment Controller is in Unoccupied override mode. Answering “Yes” to this question will cause the Terminal Equipment Controller to resume the regular setpoints and scheduling.

C) Temperature setpoints

Permanent setpoint changes

Temperat set? Y/N

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.

COOLING SETPOINT OCCUPIED MODE		HEATING SETPOINT OCCUPIED MODE		COOLING SETPOINT UNOCCUPIED MODE	
Cooling set? Y/N	No next → Yes down ↓	Heating set? Y/N	No next → Yes down ↓	Unocc CL set? Y/N	No next → Yes down ↓
Use ▲▼ keys to set value, press Yes key to confirm					
Cooling 70.0 °F (21°C)	Use ▲▼ To set value	Heating 68.00 °F (20°C)	Use ▲▼ To set value	Unocc CL 80.0 °F (26.6°C)	Use ▲▼ To set value

HEATING SETPOINT UNOCCUPIED MODE		°F OR °C DISPLAY SETTING	
Unocc HT set? Y/N	No next → Yes down ↓	°F or °C set? Y/N	No next → Yes down ↓
Use ▲▼ keys to set value, press Yes key to confirm			
Unocc HT 60.0 °F (15.5°C)	Use ▲▼ To set value	Units °F (°C)	Use ▲▼ To set value

Temporary setpoint changes

Temporary setpoints can be modified through the Up Arrow key (▲) and the Down Arrow key (▼). The user will be prompted with the present mode (Heating or Cooling) of the Terminal Equipment 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 with the up/down arrow keys 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? Y/N** menu.

D) System mode setting

Sys mode set ? Y/N

This menu is accessed to set system mode operation. Use the arrow ▲▼ keys to set the value, the YES key to confirm the change.

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 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.

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E) Fan mode setting

Fan mode set? Y/N

This section of the menu permits the setting of the fan mode operation. Use the arrow ▲▼ keys to set the value, the YES key to confirm the change.

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).

Schedule set? Y/N

This section of the menu permits the user to select 2 or 4 events as needed. Each day can be tailored to specific schedules.

- 2 events can be scheduled per day.
- Occupied and unoccupied periods can be set for each day.

MONDAY TIMER SCHEDULE SET		TUESDAY TIMER SCHEDULE SET		WEDNESDAY TIMER SCHEDULE SET		OTHER DAYS ARE IDENTICAL
Monday set? Y/N	NO next → YES down ↓	Tuesday set? Y/N	NO next → YES down ↓	Wednesda set? Y/N	NO next → YES down ↓	Selects the day to be scheduled or modified
		Use 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
		Use YES key to access day scheduling, NO key to jump to next day.				
		Copy previous? Y/N	NO next → YES down ↓	Copy previous? Y/N	NO next → YES down ↓	YES = Will copy previous day schedule NO = Daily schedules will be accessed
		Use YES key to copy previous day, NO key to set new time value for 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
		Use ▲▼ to set value, YES key to confirm				
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
		Use ▲▼ to set value, YES key to confirm				

Example 1: Office building closed all weekend

	Period 1 Event 1		Period 1 Event 2		
	Occupied		Unoccupied		
Setpoint	**Cool**	**Heat**	**Cool**	**Heat**	**Daily Occupancy**
	72 °F (22.2°C)	70 °F (21°C)	80 °F (26.6°C)	62 °F (16.6°C)	
Monday	7.00 AM		6.00 PM		Daytime only
Tuesday	7.00 AM		6.00 PM		Daytime only
Wednesday	7.00 AM		6.00 PM		Daytime only
Thursday	7.00 AM		6.00 PM		Daytime only
Friday	7.00 AM		6.00 PM		Daytime only
Saturday	12.00 PM *		12.00 PM *		Unoccupied
Sunday	12.00 PM *		12.00 PM *		Unoccupied

Notes

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

Example 2: Commercial building occupied all weekend

	Period 1 Event 1		Period 1 Event 2		
	Occupied		Unoccupied		
Setpoint	**Cool**	**Heat**	**Cool**	**Heat**	**Daily Occupancy**
	72 °F (22.2°C)	70 °F (21°C)	80 °F (26.6°C)	62 °F (16.6°C)	
Monday	8.00 AM		5.00 PM		Daytime only
Tuesday	8.00 AM		5.00 PM		Daytime only
Wednesday	8.00 AM		5.00 PM		Daytime only
Thursday	8.00 AM		5.00 PM		Daytime only
Friday	8.00 AM		5.00 PM		Daytime only
Saturday	12.00 AM **		11.59 PM **		Occupied
Sunday	12.00 AM **		11.59 PM **		Occupied

Notes

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

**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.

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G) Schedule set (4 events)

Schedule set? Y/N

This section of the menu permits the user to select 2 or 4 events as needed. Each day can be tailored to specific schedules.

- 4 events can be scheduled per day.
- Occupied and Unoccupied periods can be set for each day.
- Scheduling the 3rd & 4th events to the same time will cancel the last period.

MONDAY TIMER SCHEDULE SET		TUESDAY TIMER SCHEDULE SET		WEDNESDAY TIMER SCHEDULE SET		OTHER DAYS ARE IDENTICAL
Monday set? Y/N	NO next → YES down ↓	Tuesday set? Y/N	NO next → YES down ↓	Wednesda set? Y/N	NO next → YES down ↓	Selects the day to be scheduled or modified
Use 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
Use YES key to access day scheduling, NO key to jump to next day.						
		Copy previous? Y/N	NO next → YES down ↓	Copy previous? Y/N	NO next → YES down ↓	YES = Will copy previous day schedule NO = Daily schedules will be accessed
Use YES key to copy previous day, NO key to set new time value for 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
Use ▲▼ to set value, YES key to confirm						
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
Use ▲▼ to set value, YES key to confirm						
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 setpoints
Use ▲▼ to set value, YES key to confirm						
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
Use ▲▼ to set value, YES key to confirm						

Example 1: Four event retail establishment schedule

	Period 1 Event 1		Period 1 Event 2		Period 2 Event 3		Period 2 Event 4		
	Occupied		Unoccupied		Occupied		Unoccupied		
Setpoint	Cool	Heat	Cool	Heat	Cool	Heat	Cool	Heat	Daily Occupancy
	72 °F (22.2°C)	70 °F (21°C)	80 °F (26.6°C)	62 °F (16.6°C)	72 °F (22.2°C)	70 °F (21°C)	80 °F (26.6°C)	62 °F (16.6°C)	
Monday	7.00 AM		5.00 PM		12.00 PM *		12.00 PM *		Daytime only
Tuesday	7.00 AM		5.00 PM		12.00 PM *		12.00 PM *		Daytime only
Wednesday	7.00 AM		5.00 PM		12.00 PM *		12.00 PM *		Daytime only
Thursday	7.00 AM		5.00 PM		7.00 PM		10.30 PM		Day/Eve only
Friday	7.00 AM		5.00 PM		7.00 PM		10.30 PM		Day/Eve only
Saturday	12.00 PM *		12.00 PM *		12.00 PM *		12.00 PM *		Unoccupied
Sunday	12.00 PM *		12.00 PM *		12.00 PM *		12.00 PM *		Unoccupied

Notes

* Scheduling events to the same time will cancel the last period and leave the Terminal Equipment Controller in unoccupied mode

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Example 2: Four event residential schedule

Setpoint	Period 1 Event 1 Occupied Cool 72 °F (22.2°C)	Period 1 Event 1 Occupied Heat 70 °F (21°C)	Period 1 Event 2 Unoccupied Cool 80 °F (26.6°C)	Period 1 Event 2 Unoccupied Heat 62 °F (16.6°C)	Period 2 Event 3 Occupied Cool 72 °F (22.2°C)	Period 2 Event 3 Occupied Heat 70 °F (21°C)	Period 2 Event 4 Unoccupied Cool 80 °F (26.6°C)	Period 2 Event 4 Unoccupied Heat 62 °F (16.6°C)	Daily Occupancy
Monday	6.00 AM		8.00 AM		4.00 PM		10.00 PM		Day/Eve only
Tuesday	6.00 AM		8.00 AM		4.00 PM		10.00 PM		Day/Eve only
Wednesday	6.00 AM		8.00 AM		4.00 PM		10.00 PM		Day/Eve only
Thursday	6.00 AM		8.00 AM		4.00 PM		10.00 PM		Day/Eve only
Friday	6.00 AM		8.00 AM		4.00 PM		11.30 PM		Day/Eve only
Saturday	8.00 AM *		8.00 AM *		8.00 AM *		11.59 PM *		Daytime only
Sunday	12.00 AM *		12.00 AM *		12.00 AM *		11.59 PM *		All day

Notes

*Scheduling consecutive events to the same time will cause the Terminal Equipment Controller to choose the last event as the time at which it will set its schedule. In the above example for Saturday, the Terminal Equipment 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 Terminal Equipment 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

Clock set? Y/N

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

TIME SETTING		DAY SETTING		TIME FORMAT SETTING	
Time set? Y/N 0:00	NO next → YES down ↓	Day set? Y/N	NO next → YES down ↓	12/24hrs set? Y/N	NO = Exit YES down ↓
Time 00:00	Use ▲▼ To set value	Day Monday	Use ▲▼ To set value	12/24hrs 12 hrs	Use ▲▼ To set value

J) Schedule Hold

Schedule hold? Y/N

- This menu appears only on stand-alone (Network Ready) Terminal Equipment 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 Terminal Equipment Controller scheduling.
- The permanent schedule hold function is typically used for non-scheduled 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.
- Use the arrow ▲▼ keys to set the value, the YES key to confirm the change.

Schedule Hold and Resume Functions

Schedule occ hold	**Hold permanent occupied** Forces the Terminal Equipment Controller into a permanent occupied mode using the occupied setpoints. All timed scheduling functions are by-passed. The PERMANENT OCCUPIED status will appear in the automatic status scroll. To resume to regular scheduling, scroll to the Schedule, Hold menu and select the Schedule resume option.
Schedule uno hold	**Hold permanent unoccupied** Forces the Terminal Equipment Controller into a permanent unoccupied mode using the unoccupied setpoints. All timed scheduling functions are by-passed. The PERMANENT UNOCCUPIED status will appear in the automatic status scroll. To resume to regular scheduling, scroll to the Schedule Hold menu and select the Schedule resume option.
Schedule resume	**Resume regular scheduling** Cancels the permanent hold and re-enables the regular scheduling as set per internal schedule or as per remote NSB, via one of the DIs configured as remote NSB. This action also can be accomplished using the Resume menu. Any temporary setpoints that are active will be left active for the duration of the period, as set per the TOccTime parameter.

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INSTALLER CONFIGURATION PARAMETER MENU

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

Enter configuration

Press and hold the middle key (MENU) for eight seconds.

Password

If a password lockout is active, “Password” is prompted. Enter a password value using the up/down arrow keys and then press the middle key again to gain access to all configuration properties of the Terminal Equipment Controller. Entering an incorrect password will prevent local access to the configuration menu.

Scroll parameters

Press the NO key repetitively to scroll between all the available parameters.

Adjust parameter

When the desired parameter is displayed, press the YES key to select it, then use the up/down arrow keys to adjust it to the desired value.

Save new value

To acknowledge and save the new value, press YES key again. The next parameter will be displayed.

Configuration interface

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

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CONFIGURATION PARAMETERS

Default Value	Significant Adjustments
PswrdSet Configuration parameters menu access password Default: 0 No password prompted	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: 254 Range is: 0 to 254	**Conditional parameter to BACnet® MS-TP models SE76xxX5x45B** **Conditional parameter to Wireless models SE76xxX5x45W** This parameter will only appear when a BACnet® or wireless network adapter is present. If the Terminal Equipment Controller is installed as a stand-alone (Network Ready) unit or with an Echelon® adapter, this parameter will not be used or displayed 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 Controllers per VWG
PAN ID Personal Area Network Identification Default: 0 Range is: 0 to 1045	**Conditional parameter to Wireless models SE76xxX5x45W** This parameter will only appear when a wireless network adapter is present. If the Terminal Equipment 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 Terminal Equipment Controllers to a single specific Schneider Electric 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.
Channel Channel selection Default: 10 Range is: 10 to 26	**Conditional parameter to Wireless models SE76xxX5x45W** This parameter will only appear when a wireless network adapter is present. If the Terminal Equipment 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 Terminal Equipment Terminal Equipment Controllers to specific Schneider Electric wireless gateway(s) (VWG). For every Terminal Equipment 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). **Schneider Electric recommends using only channels 15 and 25.** The default value of 10 is NOT a valid channel. The valid range of available channels is from 11 to 26

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CONFIGURATION PARAMETERS

Default Value	Significant Adjustments
DI 1 Digital input no.1 configuration Open contact input = function not energized Closed contact input = function energized Default Value = None	**(None) :** No function will be associated with the input **(Rem NSB):** remote NSB timer clock input. Will disable the internal scheduling of the Terminal Equipment Controller. 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 • Closed contacts = unoccupied setpoints **(RemOVR):** Temporary override remote contact. Disables all override menu function of the Terminal Equipment Controller. 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 Terminal Equipment Controller LCD screen when the input is energized **(Service):** a back-lit flashing Service alarm will be displayed on the Terminal Equipment Controller LCD screen when the input is energized **(Fan lock):** a back-lit flashing Fan lock alarm will be displayed on the Terminal Equipment Controller LCD screen when the input is not energized. Used in conjunction with a local airflow sensor connected to the input. Locks out the Terminal Equipment Controller 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 Digital input no. 2 configuration Default Value = None	Same as above. It is possible to configure both inputs to have the same function.
MenuScro Menu scroll Default: 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

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CONFIGURATION PARAMETERS

Default Value	Significant Adjustments
lockout Keypad lockout levels Default value = 0 (No lock)	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	Unlocked	Unlocked	Unlocked	Unlocked	Unlocked	Unlocked	Unlocked	Unlocked
1	Unlocked	Locked	Unlocked	Locked	Locked	Locked	Unlocked	Locked
2	Locked	Locked	Locked	Locked	Locked	Locked	Unlocked	Locked

pwr del Power-up delay Default value = 10 seconds	On initial power up of the Terminal Equipment Controller (each time 24 Vac power supply is removed & re-applied) there is a delay before any operation is authorized (fan, cooling or heating). This can be used to sequence start up multiple units / Terminal Equipment Controller in one location. 10 to 120 seconds
Frost pr Frost protection enabled Default value = Off	Off: no room frost protection On: room frost protection enabled in all system mode at: 42 °F (5.6 °C) Frost protection is enabled even in system Off mode Off or On (On heat pump models the system mode will be forced to EMERGENCY mode if frost protection is activated.)
Heat max Maximum heating set point limit Default: 90 °F (32 °C)	Maximum occupied & unoccupied heating set point adjustment. Heating set point range is: 40 to 90 °F (4.5 to 32.0 °C)
Cool min Minimum cooling set point limit Default: 54 °F (12 °C)	Minimum occupied & unoccupied cooling set point adjustment. Cooling set point range is: 54 to 100 °F (12.0 to 37.5 °C)
Pband Proportional Band setting Default value 2 = 2.0 °F (0.6 °C	Adjusts the proportional band used by the Terminal Equipment Controller PI control loop. Note that the default value of 2.0 °F (1.1 °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.

VALUE	°F SCALE PBAND	°C SCALE 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

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CONFIGURATION PARAMETERS

Default Value	Significant Adjustments
Anticycle Minimum On-Off operation time for stages Default value = 2 minutes	Minimum On-Off operation time of cooling & heating stages. IMPORTANT, anti-short cycling can be set to 0 minutes for equipment that posses 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 posses 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.
% RH disp Local RH Display Default value = Off	Enables the display of humidity below the room temperature on the display On = Display %RH Off = No display of %RH
cool cph Cooling stages cycles per hour Default value = 4 C.P.H.	Will set the maximum number of cooling stage cycles per hour under normal control operation. It represents the maximum number of cycles that the equipment will turned 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. 3 or 4 C.P.H. For multistage models, cool cph applies to Y1 & Y2 For heat pump models, cool cph applies to Y1 & Y2 in cooling and heating independently of the reversing valve position.
Deadband Minimum deadband Default: 2.0 °F (1.1 °C)	The minimum deadband value between the heating and cooling set points. When modified, it will take effect only when any of the set points are modified. Range is: 2, 3, or 4 °F, 1.0 °F increments (1.0 to 2.0 °C)
fan cont Fan control Default value = On	Fan control in heating mode. When selecting On; the Terminal Equipment Controller in all cases will always control the fan (terminal G). Valid for On or Auto fan mode When selecting Off; 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 multistage models, fan control applies to W1 & W2 For heat pump models, fan control applies to W1 only (Emergency heat).
fan del Fan delay Default value = Off	Fan delay extends fan operation by 60 seconds after the call for heating or cooling ends. Valid only for Auto fan mode. “On” fan mode will leave the fan always on. Off or On

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CONFIGURATION PARAMETERS

Default Value	Significant Adjustments
TOccTime Temporary occupancy time Default: 3 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 DI1 or DI2 configured as remote override input. 0,1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 & 12 hours
Cal RS Room air temperature sensor calibration Default: 0.0 °F or °C	Offset that can be added/subtracted to the actual displayed room temperature. Range is: ± 5.0 °F (± 2.5 °C)
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
C stage or HP stage Number of cooling stages. 2 stages model only Default value = 2 stages	Will revert the operation of 2 stage Terminal Equipment Controller to single stage operation only when the second cooling step is not needed. 1 or 2 stages For heat pump models, HP stage selects the number of compressor stages.
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 Terminal Equipment Controller toggles from occupied to unoccupied after the last movement has been detected by the PIR. Range is: 0.5 to 24.0 hours in 0.5 hour increments.
2/4event Number of events configuration Default value = 2 events	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

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CONFIGURATION PARAMETERS

<table>
<tr><th>Default Value</th><th>Significant Adjustments</th></tr>
<tr><td>aux cont
Auxiliary contact function & configuration
Default value = N.O.
normally open</td><td>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 OFF mode, the contact will remain in its unoccupied status independently of the occupied / unoccupied schedule.
<table>
<tr><th>Configured</th><th>Contact occupied status</th><th>Contact unoccupied status</th></tr>
<tr><td>N.O.</td><td>Closed</td><td>Opened</td></tr>
<tr><td>N.C.</td><td>opened</td><td>Closed</td></tr>
</table></td></tr>
<tr><td>Get From
Terminal Equipment Controller Get From another device configuration utility
Default value = 0
Range is: 0 to 254</td><td>Conditional parameter to Wireless models SE76xxW5x45W

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 an 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 Terminal Equipment 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.</td></tr>
<tr><td>Prog rec
Progressive recovery enabled
Default value = Off
Progressive recovery is automatically disabled if DI 1 and / or DI 2 are configured remote NSB</td><td>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 Terminal Equipment 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.</td></tr>
<tr><td>Re valve
Reversing valve operation O/B
Default value = O</td><td>Heat pump reversing valve operation
O will energize the valve in cooling operation.
B will energize the valve in heating operation
O OR B</td></tr>
</table>

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CONFIGURATION PARAMETERS

Default Value	Significant Adjustments
Dhu set Dehumidification setpoint Default is 50 % RH	Used only if dehumidification sequence is enabled: Range is: 30-95% RH
DHumiLCK Dehumidification lockout Default value: Restrict	Enables, restricts or disables the dehumidification sequence. **Dhu Disa:** Dehumidification disabled **Restrict:** will restrict the dehumidification process based on the following: System mode = Needs to be Cool or Auto (currently operating in cooling only) Low ambient room temperature protection enabled **Dhu Enab:** will not restrict the dehumidification process: System mode = Needs to be Cool, Heat or Auto There is no ambient room temperature protection enabled
Dhu OALK Dehumidification outside air temperature lockout Default value = 32°F (0°C)	Outside air temperature under which the dehumidification sequence is disabled. Only valid if an outdoor air sensor is connected at the Terminal Equipment Controller or a network value is transmitted to the Terminal Equipment Controller. From –40°F up to 122°F (-40°C to 50°C)
DehuHyst Dehumidification Hysteresys Default = 5 % RH	Humidity control hysteresis. Used only if dehumidification sequence is enabled: Range is: 2 to 20% RH
MS dis Display mixed air temperature	Used as diagnostic aid to troubleshoot and diagnose economizer operation.

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Schneider Electric One High Street, North Andover, MA 01845 USA Telephone: +1 978 975 9600 Fax: +1 978 975 9674 http://www.schneider-electric.com/buildings

TROUBLESHOOTING GUIDE

Symptom	Possible Cause	Corrective Action
No display on the Terminal Equipment Controller	Absent or incorrect supply voltage	Check power supply voltage between C & RC to be from 19-30 VAC. Check for a tripped fuse or circuit breaker.
	Overloaded power transformer	Verify that the transformer used is adequate (enough VA's) to supply all controlled devices including the Terminal Equipment Controller.
Keyboard menu does not access all functions	Keyboard locked	Change configuration parameter LOCKOUT to value "0" to access all levels of the menu.
Temperature setpoints revert to original value after a certain time period	Temporary setpoint option selected	The Terminal Equipment Controller must be in Permanent setpoint mode for the new setpoint to be kept and memory and used all the time. 1) Go to the Set temperature menu. 2) The last prompt is setpoint type. 3) Set it to Permanent setpoint.
Terminal Equipment Controller will not call for heating	Wrong mode selected	Select heating mode.
	Terminal Equipment Controller in Unoccupied mode	Select Occupied Hold in Schedule hold or Override to force the Terminal Equipment Controller Occupied heating setpoint.
	Anticycle delay active	Wait, the anticycling period will end and the equipment will start.
	Heating setpoint is satisfied	Increase the Heating setpoint.
	Heating lockout attained	Mode is locked out based on outside air temperature. Change the configuration parameter H Lock to value 120 °F (49 °C) to by-pass the lockout.
	Wiring error	Start the Fan by forcing the Fan ON mode. Install a jumper across terminals RH & W1. The heating should activate. If it does not, verify the wiring and check if a jumper is required between RC & RH.
Terminal Equipment Controller will not call for cooling	Wrong mode selected	Select cooling mode
	Terminal Equipment Controller in Unoccupied mode	Select Occupied Hold in Schedule hold or Override to force the Terminal Equipment Controller Occupied cooling setpoint.
	Anticycle delay active	Wait, the anticycling period will end and the equipment will start.
	Cooling setpoint is satisfied	Decrease the cooling setpoint.
	Cooling lockout attained	Mode is locked out based on outside air temperature. Change configuration parameter C Lock to value -40 °F (-40 °C) to by-pass the lockout.
	Wiring error	Start the Fan by forcing the Fan ON mode. Install a jumper across terminals RC & Y1. The cooling should activate. If it does not, verify the wiring.
The Terminal Equipment Controller will not turn on the fan	Wrong mode selected	Start the Fan by forcing the Fan ON mode. Install a jumper across terminals RC & G. The fan should activate. If it does not, verify the wiring.
	Wiring error	
Digital display shows missing digits or erratic segments	Defective display	Replace the Terminal Equipment Controller.

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SPECIFICATIONS

Terminal Equipment Controller power requirements:	19-30 VAC 50 or 60 Hz; 2 VA Class 2
Operating conditions	0 °C to 50 °C (32 °F to 122 °F) 0% to 95% R.H. non-condensing
Storage conditions	-30 °C to 50 °C (-22 °F to 122 °F) 0% to 95% R.H. non-condensing
Temperature sensor	Local 10 K NTC thermistor
Temperate sensor resolution	± 0.1 °C (± 0.2 °F)
Temperature control accuracy	± 0.5 ° C (± 0.9 °F) @ 21 °C (70 °F) typical calibrated
Contact output rating	Relay output: 30 VAC, 1 Amp. Maximum, 3 Amp. In-rush.
Occ, Stand-By and Unocc cooling set point range	12.0 to 37.5 °C (54 to 100 °F)
Occ, Stand-By and Unocc heating set point range	4.5 °C to 32 °C (40 °F to 90 °F)
Room and outdoor air temperature display range	-40 °C to 50 °C (-40 °F to 122 °F)
Proportional band for room temperature control:	Cooling & Heating: Default: 1.1°C (2°F)
Digital inputs	Dry contact across terminal DII1, DI2
Wire gauge	18 gauge max. 22 gauge min.
Approximate shipping weight	0.75 lb (0.34 kg)
Agency Approvals all models	UL: UL 873 (US) and CSA C22.2 No. 24 (Canada), File E27734 with CCN XAPX (US) and XAPX7 (Canada) Industry Canada: ICES-003 (Canada)
Agency Approvals all models	FCC: Compliant to CFR 47, Part 15, Subpart B, Class A (US) CE : EMC Directive 89/336/EEC (Europe Union) C-Tick: AS/NZS CISPR 22 Compliant (Australia / New Zealand) Supplier Code Number N10696
Agency Approvals Wireless models	FCC: Compliant to: Part 15, Subpart C
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.	
Please check with your local government for instruction on disposal of this product.	

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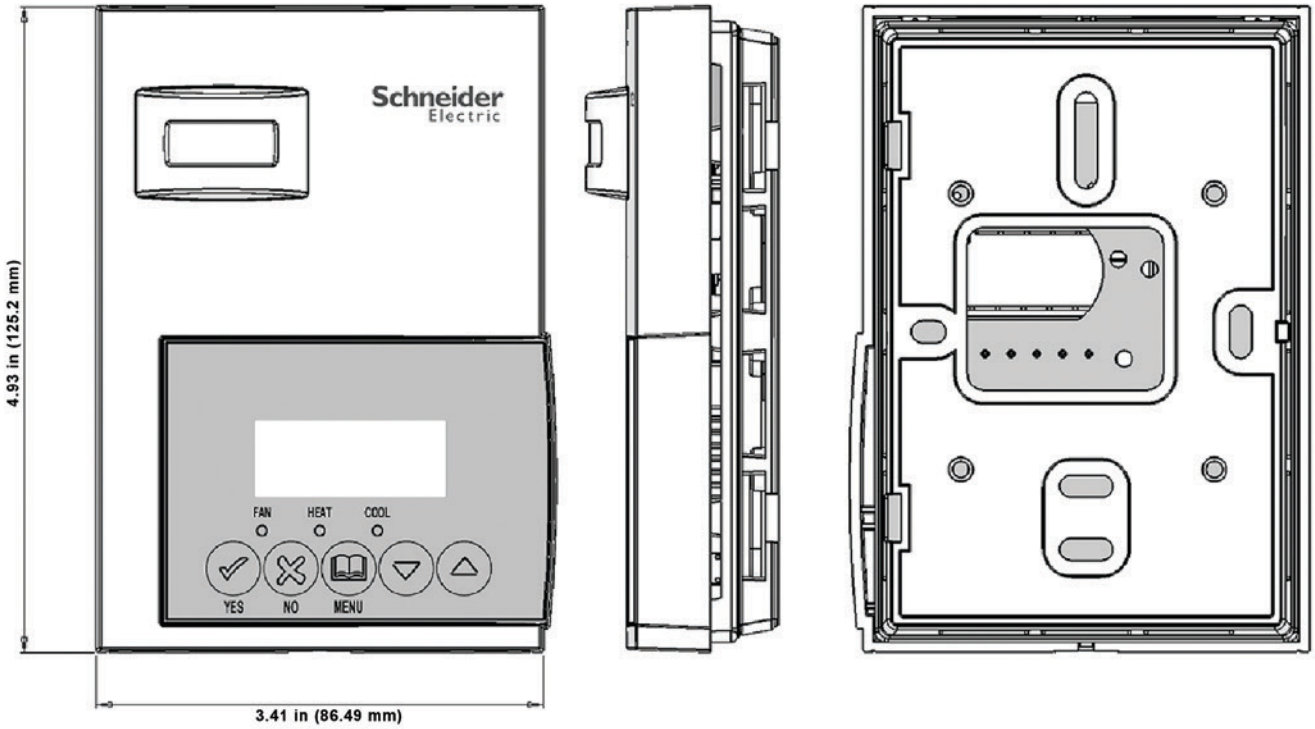
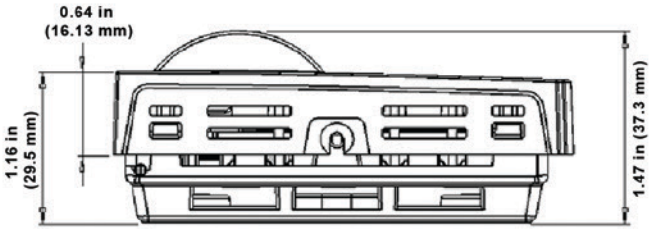
DIMENSIONAL DRAWING





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