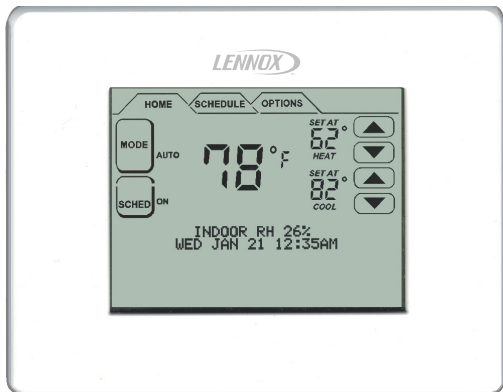




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Dallas, Texas, USA



- Tabbed user interface with touch screen interaction
- Soft blue backlit screen with adjustable brightness
- Equipment maintenance reminders
- Humidification measurement and control
- Programmable or non-programmable options
- Automatically changes between heating cooling

05/09



HOMEOWNER'S MANUAL

ComfortSense® 7000 Series

Model L7742U Touch Screen Programmable Thermostat

CONTROLS

506229-01

05/09

Supersedes 04/09

TP Technical
Publications
Litho U.S.A.

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506229-01



ComfortSense® 7000 Series Model L7742U Thermostat

The ComfortSense® 7000 Series Model L7742U thermostat is an electronic 7-day, universal, multi-stage, programmable, touch screen thermostat. It also offers enhanced capabilities including humidification / dehumidification / dewpoint measurement and control, Humiditrol® EDA (Enhanced Dehumidification Accessory) control, and equipment maintenance reminders.

- Large, clear display with soft blue backlight shows the current and set temperature, day/date/time, indoor relative humidity and outdoor temperature (if optional outdoor sensor is used).
- Dehumidification measurement and control
- Humiditrol® EDA capability
- Dew point adjustment control
- Menu-driven programming guides user through the scheduling process showing only necessary information on each screen.
- Ergonomic design.
- Smooth Setback Recovery starts system early to achieve set-point at start of program period.

- Compressor short-cycle protection (5 minutes).
- Real-time clock keeps time during power failures and automatically adjusts for daylight savings time and leap year.
- Maintenance reminders let user know when to service or replace filters, humidifier pads, ultraviolet lamps, plus two user or installer defined custom reminders.
- Program Hold options allow user to override the program schedule as desired by time and date.
- Select individual days or groups of days to set programming.
- Programmable fan offers increased performance when combined with whole home indoor air quality products.
- Outdoor temperature display (with optional outdoor sensor) shows current outdoor temperature.

Your installer has set up your thermostat based on the type of heating and cooling system and accessories that your thermostat connects to. This booklet details user settings available to you that will give you as much functionality and control as you want.

Touch Screen Display

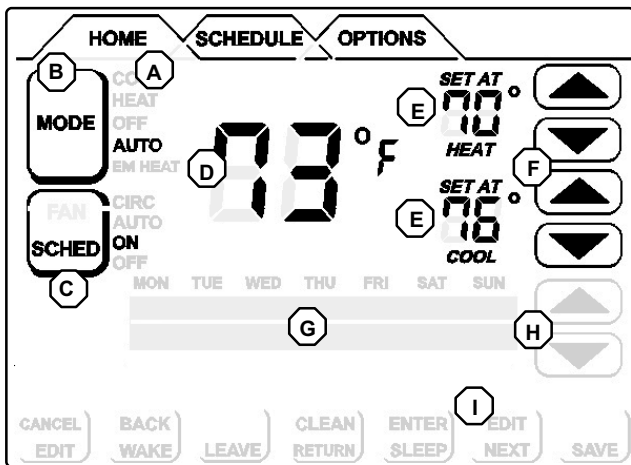


Figure 1. Touch screen display

Press the screen anywhere - the first press turns on the backlight.

A Selection Tabs - Press to select: HOME (normal display), SCHEDULE (for programming), OPTIONS (to set fan operation, alerts, service reminders, and other user and installer settings).

B MODE - press to cycle through HEAT, COOL, AUTO (autochangeover), OFF, EM HEAT (emergency heat).

C SCHED (schedule) - press to change between ON and OFF.

D Displays room temperature.

E Displays the current operation *SET AT* point(s). If MODE is set to AUTO (autochangeover), both HEAT and COOL setpoints are displayed.

F Up/down arrows used for adjusting temperature up or down; if in AUTO (autochangeover) mode, two sets of up/down arrows appear.

G Information display area, displays different information depending on the tab selected:

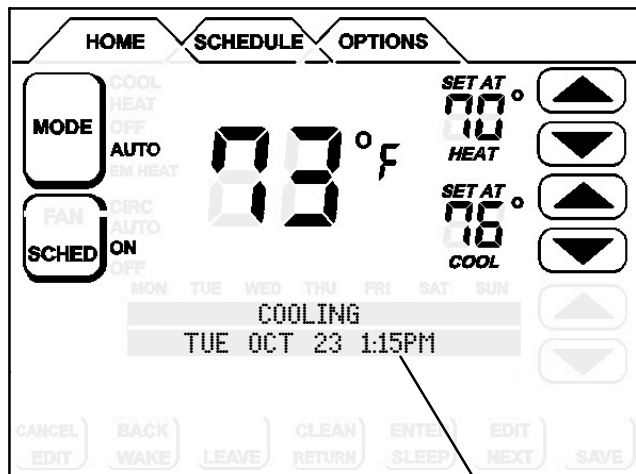
- HOME tab: displays outdoor temperature (if outdoor sensor X2658 is installed), indoor relative humidity (RH), which mode is calling, hold settings information, service reminders.
- SCHEDULE tab: displays the event being programmed;
- OPTIONS tab: displays a scrolling list of installer- and user-adjustable parameters, including filter and service reminder periods, etc.

H Schedule time adjustment, User/Installer Settings up/down arrows:

- HOME screen: not visible except when executing a HOLD SETTING)
- SCHEDULE and OPTION screens: used to adjust schedule and option settings.

I Dynamic keys - not visible in HOME screen unless executing a HOLD SETTING. For SCHEDULE and OPTIONS settings, these keys appear and change depending on the selection. See the schedule and options sections for details.

Home Screen—Current Conditions & Temperature Settings



INFORMATION
DISPLAY AREA

Figure 2. Home Screen

The HOME screen (figure 2) displays indoor temperature and outdoor temperature if the outdoor sensor is installed. Other system operational information, such as indoor relative humidity (if turned on in user settings), dehumidifying, cooling or heating, will alternately be displayed in the information display.

Equipment operation information appears in the boxes along the left side of the home screen to indicate cooling or heating equipment operation setting, and whether scheduled programming is ON or OFF. From these boxes, users can change the unit's mode to HEAT, COOL, AUTO (autochangeover - default), EM HEAT (emergency heat for heat pump applications including dual fuel and HP with Electric Heat), or OFF.

The user can also decide whether to operate the unit per the programmable schedule, or in a non-programmable mode using the SCHED box.

Controlling the Heat/Cool Modes of Operation

MODE

COOL
HEAT
OFF
AUTO
EM HEAT

On initial power up or after a power loss over 2 hours, the thermostat powers up at the HOME screen in the AUTO position. If it powers up after a power loss of less than 2 hours, it assumes the last mode set. Pressing MODE repeatedly scrolls through all the modes—AUTO, EM HEAT, COOL, HEAT, then back to OFF.

HEAT, COOL and OFF modes are as each name implies. AUTO (autochangeover) allows the thermostat to switch between Heating and Cooling, whichever mode is dictated by the indoor temperature.

EM HEAT (emergency heat) bypasses the first stage of heating (any stage[s] of heat pump heating) and goes directly to the heat stage used for maximum heating to more quickly warm a very cold house.

When the indoor temperature decreases or increases, the HEATING or COOLING cycle will turn on based on the displayed mode. When the HVAC system is on, the INFORMATION DISPLAY AREA (shown in figure 3) will display one or several operational messages (listed in the table below). If the outdoor sensor is connected, and is turned on in both installer and user settings, outdoor temperature will be included in the displays. The table below summarizes the information messages.

When the faults, errors, and service information displays appear, dynamic keys will appear under the second line entries, REMIND, CLEAR, SERVICE, or RESET. Press the box to perform the action.

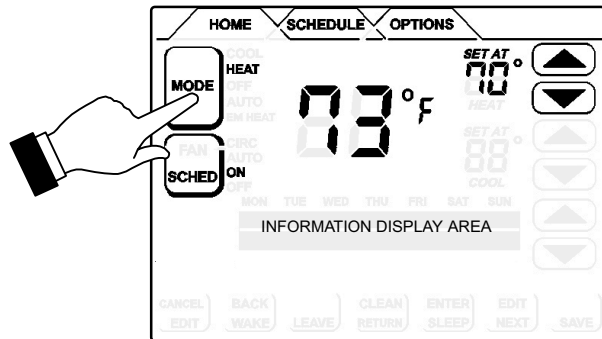


Figure 3. Selecting Mode of Operation

Information Display Area table

Faults, Errors, and Service Information		Operating Information	
TEMP SENSOR ERROR, MEMORY ERROR CALL FOR SERVICE	Top line: fault/error Bot. line: action	SET DATE/TIME Default DATE/TIME <MON JAN 1 12:00 PM>	[First time start up msg]
NO OUTDOOR SENSOR CALL DEALER INFO	Top line: fault/error Bot. line: action	HEATING, COOLING, HUMIDIFYING, DEHUMIDIFYING, SYSTEM OFF, OUTDOOR TEMP xx°F, INDOOR RH xx%, MON SEP 24 3:00 PM	Top line: operation msgs Bottom line: date & time
REPLACE: MEDIA FILTER; UV LAMP; HUM PAD; METAL INSERT REMIND RESET	Top line: serv. req'd Bot. line: action	SCHEDULE ON, SCHEDULE OFF, WAIT, FAN ON, FAN CIRC MON SEP 24 3:00 PM	Top line: operation msgs Bottom line: date & time
ROUTINE SVCS CHECK-UP REMIND RESET	Top line: serv. req'd Bot. line: action	HOLD SETTING UNTIL PRESS SCHED TO MON SEP 24 3:00 PM RESUME PROGRAM	[Alternating msgs during a held schedule]
NO OUTDOOR SENSOR, HUM SENSOR ERROR, HVAC ERROR DETECTED REMIND SERVICE	Top line: fault/error Bot. line: action		
DEALER INFORMATION (Edited to show dealer contact information (2 lines))	Contact Installing Dealer		

Controlling the Fan Operation

Fan Modes



If backlight is not on continuous, press the screen anywhere to turn on the backlight. Press the OPTIONS tab to access the FAN mode control.

Press FAN button; repeated presses scroll through all the modes, AUTO, ON, and CIRC (circulate).

- AUTO—the fan is following schedule.
- ON—the fan is NOT following the schedule and runs continuously until it is changed from the OPTIONS screen.
- CIRC—the fan is following schedule and cycles during periods of equipment inactivity. Cycle time is dependent on user settings FAN CIRCULATE (Page 10).

If FAN mode displays AUTO and ON or CIRC was selected during scheduling for the current period, the thermostat will indicate the current fan mode in the information display (FAN ON or FAN CIRC).

In the CIRC mode, the user can cycle the fan for a programmed percentage of active time per hour, during periods of equipment inactivity (i.e., heating or cooling equipment not running). The fan is ON

for 5 minutes at a time. The user may change the percentage of ON time that the fan is on (see FAN CIRCULATE [Page 10]):

Fan Program

The user can program the fan to be ON, AUTO, or CIRC during a program event period. While scheduling the event, if the fan is set to ON, it will remain on during the entire event. If it is set to CIRC, it will circulate during equipment inactivity per user programmable cycles (see FAN CIRCULATE, Page 10). If set to AUTO, the fan will come on with the equipment to serve the heating/cooling demand and go off accordingly.

NOTE - When the OPTIONS screen FAN mode is changed to ON or CIRC, whatever was scheduled is ignored - the fan will either be ON or it will CIRCULATE per the user-programmed intervals (USER SETTINGS - FAN CIRCULATE (Page 10). When FAN - AUTO is selected in the OPTIONS screen, the schedule IS followed.

In the CIRC mode, the user can cycle the fan for a programmed percentage of active time per hour, during periods of equipment inactivity (i.e., heating or cooling equipment not running). The fan is ON for 5 minutes at a time. The user may change the percentage of ON time that the fan is on (see FAN CIRCULATE [Page 10]):

Controlling the Schedule



If backlight is not on continuous, press the screen anywhere to turn on the backlight.

From the HOME screen press SCHED; repeated presses toggle the schedule ON and OFF. If ON, the system follows the program developed by the user (Page 7).

If OFF, the system operates as a non-programmable thermostat—the user must make changes when desired. The autochangeover feature continues to operate based on the manual user inputs.

The fan mode is displayed on the SCHEDULE screen when programming the thermostat and can be changed only during schedule editing (after EDIT is pressed). Fan settings in OPTIONS screen will OVER-RIDE the scheduled fan operation.

Schedule tab—Programming

If backlight is not on continuous, press the screen anywhere to turn on the backlight. Press the SCHEDULE tab along the top of the screen. The display changes to programming mode (figure 4) and shows the current settings.

EVENTS DAILY 2 OR 4—The thermostat may be programmed for two or four (default) events per day. The names for the events are: WAKE, LEAVE, RETURN, and SLEEP. The selected time for an event to occur is based on when you want the event to **begin**. Four events (default) are common for working households. To change to two events per day, see page 10. When set for two events per day, the display would appear as: "WAKE (or SLEEP) PERIOD BEGINS".

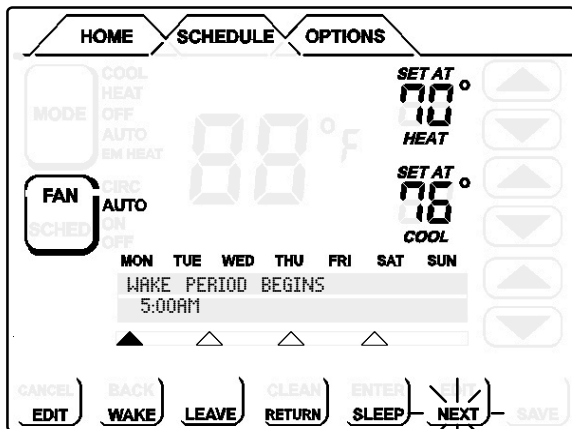


Figure 4. Schedule Screen

Programming may be performed in groups of days or individual days, as follows:

- A** MON TO SUN - allows every day to be set the same.
- B** MON TO FRI (weekday programming) and SAT TO SUN (weekend programming).
- C** MONDAY through SUNDAY allows individual days of the week to be programmed separately.

NOTE - After using one of the groups of days described above, the program allows you to subsequently change individual days to suit your needs.

To get to the different groupings of days, press EDIT, then press NEXT repeatedly to scroll to the desired grouping.

Programming Complexity

The programming process for groups of days or individual days is the same, except in the amount of times required to go through the process.

Full Week—The least complex program is the full week "MON TO SUN" program, wherein the events for every day of the week are the same. This requires one time through the event programming process.

Work Week—Next in complexity to the full week program is the work week program wherein the events are set for a typical work week (MON TO FRI) and different events are set for the weekend (SAT TO SUN). This requires two times through the events.

Day by Day—Most complex because this requires going through the programming process 7 times.

Schedule Screen—Programming

Days & Events Programming process

Action	Display shows...
1 Press SCHEDULE tab	SCHEDULE screen
2 Press EDIT	UP/DOWN arrows on right-hand side of screen; EDIT changes to CANCEL
3 Press NEXT to highlight the desired grouping of days	Days change to match selected group, e.g. MON TUE WED THU FRI
4 Press an event: WAKE (default), LEAVE, RETURN, & SLEEP to select for programming	Filled triangle above event indicates which event is selected for change
5 Press UP/DOWN arrows to select desired temperature	After change is made, SAVE appears in the bottom right-hand of the screen
6 Press FAN repeatedly to select desired fan mode	Fan indicator displays selection (ON, AUTO, or CIRC)
7 Press UP/DOWN arrows to adjust start time for selected event	Information area displays start time
8 Repeat steps 4 - 7 for all remaining events.	
(If you selected other than MON TUE WED THU FRI SAT SUN), continue; otherwise, skip to step 11.	
9 Press NEXT for the next group or the next day	Days change to match selected group, e.g. SAT SUN
10 Repeat steps 3 through 8 for the remaining days, if necessary.	
11 Press SAVE when all events and days are programmed as desired	The changes are made and the schedule screen reappears.

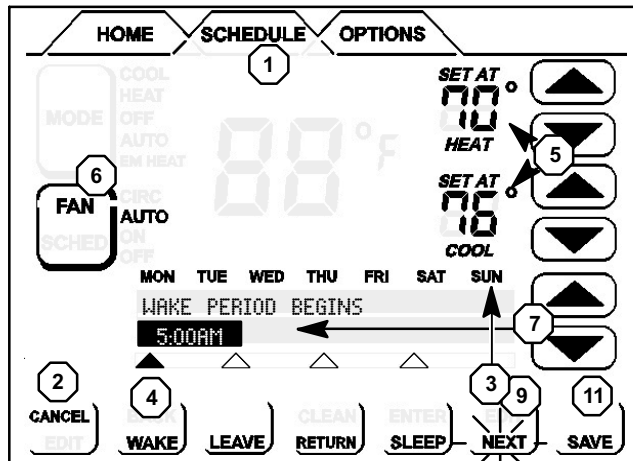


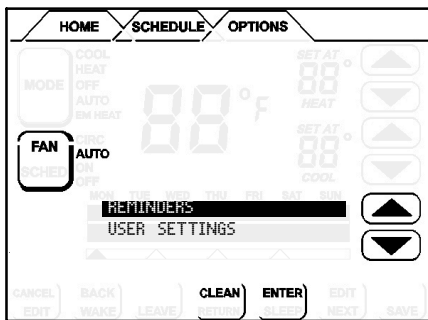
Figure 5. Programming days and events

Options Screen—Reminders & User Settings

CLEAN button [OPTIONS TAB > [CLEAN]]

When you select the OPTIONS tab, two buttons appear near the bottom of the screen labeled CLEAN and ENTER. Press the CLEAN button to deactivate the “touch” zones for 30 seconds. Clean the screen with a soft cloth and a mild glass cleaning solution.

The Options screen provides user and installer access to the various features for setup and access to the reminders.



Reminders [OPTIONS TAB > REMINDERS > [ENTER]]

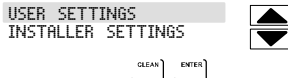
Set timers from 1 to 24 months in either calendar time or system run time. Reminders appear when it is time to service the following (for more details on REMINDERS, see Page 15):

REPLACE MEDIA FILTER DUE FRI JUN 12 09	REPLACE UV LAMP DUE FRI SEP 11 09
ROUTINE SV'S CHECK-UP DUE IN 2160 HOURS	PURE AIR MAINTENANCE DUE FRI SEP 11 09
REPLACE HUM PAD DUE FRI JUN 12 09	(CUSTOM REMINDER 1) DUE WED OCT 21 09

User Settings [OPTIONS TAB > USER SETTINGS > [ENTER]]

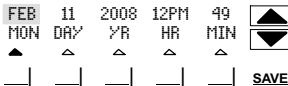
12 OR 24 HOUR	Page 9	F/C	Page 9
BACKLIGHT INTENSITY	Page 11	FAN CIRCULATE	Page 10
BACKLIGHT SETTING	Page 11	HEATING LIMIT	Page 11
COOLING LIMIT	Page 11	HUMIDITROL ADJUST	Page 11
DATE/TIME	Page 9	HUMIDITY SETTING	Pages 11, 12, 13
DISPLAY INFO	Page 10	SECURITY LOCK	Page 11
EVENTS DAILY 2 OR 4	Page 10	VIEW CONTACT INFO	Page 10

Press the OPTIONS tab; use the arrows to select USER SETTINGS. Press ENTER.



The following items are available for modifying. Follow the instructions for each parameter.

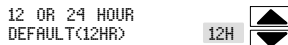
DATE/TIME—Set month, day, year, hour, and minute using DATE/TIME option. Select DATE/TIME; press ENTER. Small, filled up-arrow indicates selected column; use up/down arrows to adjust; press box below each small up-arrow to select each column. Adjust; press SAVE.



F/C—default is Fahrenheit; to change to Celsius, scroll to F/C; press ENTER. Use arrows to change to C; press SAVE.




12 OR 24 HOUR clock—default is 12H; to change, scroll to 12 OR 24 HOUR; press ENTER. Use arrows to change to 24H; press SAVE.



Options tab—User Settings (continued)


EVENTS DAILY 2 OR 4—default is 4; to change, scroll to EVENTS DAILY 2 OR 4; press ENTER. Use arrows to change to 2; press SAVE.

EVENTS DAILY 2 OR 4
DEFAULT<4> 2 

VIEW CONTACT INFO—scroll to VIEW CONTACT INFO from the user settings menu; press ENTER. Use BACK to return to menu. (To set this to display on the home screen, see DISPLAY INFO.)

DISPLAY INFO—controls what is displayed in the field below the temperature and above the time on the HOME screen; it may display OUTDOOR TEMP, INDOOR RH (relative humidity), and CONTACT INFO or any combination of the three, or none if all three are set to OFF.

Scroll to DISPLAY INFO; press ENTER. Use arrows to select OUTDOOR TEMP, INDOOR RH or CONTACT INFO; press ENTER.

DISPLAY INFO
OUTDOOR TEMP 
INDOOR RH
CONTACT INFO


NOTE - When turning ON the OUTDOOR TEMP option "OUTDOOR SENSOR REQUIRED" will display if the physical sensor is not installed.

NOTE - If outdoor sensor is not present and if user tries to select the options DISPLAY INFO -> OUTDOOR TEMP or HUMIDITROL a message is displayed "OUTDOOR SENSOR REQUIRED" instead of scroll options for these menus. Information about installing the sensor is described on Page 15.


For INDOOR RH, use arrows to select ON or OFF; then press SAVE.

INDOOR RH
DEFAULT<OFF> ON 


For OUTDOOR TEMP, select ON or OFF; then press SAVE.

OUTDOOR TEMP
DEFAULT<OFF> ON 

For CONTACT INFO, select ON or OFF; then press SAVE.

CONTACT INFO
DEFAULT<OFF> ON 


FAN CIRCULATE—As an option to running the fan all the time, fan circulate allows the user to decide how much the fan will run during periods of equipment inactivity. The fan ON time is always set to 5 minutes. This option will cause the fan to come on more or less frequently. The default is 35%; to change, scroll to FAN CIRCULATE; press ENTER. Use arrows to change to 15, 25, or 45%; press SAVE.

FAN CIRCULATE
DEFAULT<35%> 25% 


15% (9 minutes fan run time per hour)
25% (15 minutes fan run time per hour)
35% (21 minutes fan run time per hour)
45% (27 minutes fan run time per hour).

Options tab—User Settings (continued)

COOLING LIMIT—This limits the temperature at which the thermostat may be set for cooling (default is 50°); to change to any degree between 45°F and 90°F, scroll to COOLING LIMIT; press ENTER. Use arrows to change to desired temperature; press SAVE.


COOLING LIMIT
DEFAULT<50°F> 55°F 

HEATING LIMIT—This limits the temperature at which the thermostat may be set for heating (default is 85°); to change to any degree between 45°F and 90°F, scroll to HEATING LIMIT; press ENTER. Use arrows to change to desired temperature; press SAVE.

HEATING LIMIT
DEFAULT<85°F> 80°F 


HUMIDITY SETTING—See separate sections - Humidify (Page 12) and Dehumidify (Page 13).

HUMIDITROL ADJUST—If Humiditrol® is enabled in the installer settings, then this adjustment affects overcooling operation. Overcooling ranges from 2°F below the **cooling** setpoint (MIN setting) down to 2°F above the **heating** setpoint (MAX setting). Halfway between the two settings is the MID setting. The default setting is MAX; to change to MID or MIN, scroll to HUMIDITROL ADJUST; press ENTER. Use arrows to scroll to MID or MIN; then press SAVE.


HUMIDITROL ADJUST
DEFAULT <MAX> MIN 

NOTE - Humiditrol® does not function if the outdoor temperature is 95°F or greater nor when the indoor temperature is 65°F or less.

BACKLIGHT SETTING—default is POWER SAVE; scroll to BACKLIGHT SETTING; press ENTER. Use arrows to change to CONTINUOUS; press SAVE.

BACKLIGHT SETTING
DEF<SAVE> POWER SAVE 

BACKLIGHT INTENSITY—default is 100%; scroll to BACKLIGHT INTENSITY; press ENTER. Use arrows to change to 20 to 100% in 20% increments; press SAVE.

BACKLIGHT INTENSITY
DEFAULT<100%> 80% 

SECURITY LOCK—default - no locks at all - this provides two methods of locking the thermostat:


Answer YES to ALLOW TEMP ADJUST—anyone can make temperature setpoint changes without entering a 3-digit code.

Answer NO to ALLOW TEMP ADJUST—prevents making any changes at all until the 3-digit code is entered.

Scroll to SECURITY LOCK and press ENTER; ALLOW TEMP ADJUST screen appears; press box below YES or NO.

ALLOW TEMP ADJUST
YES NO
CANCEL | |

The ENTER LOCK CODE screen appears.

ENTER LOCK CODE 
0 0 0
^ ^ ^
CANCEL | | | SAVE

To enter the lock code, press box below each small up-arrow to select each column. Use up/down arrows to enter a number, then press the box below the next number and repeat to enter a 3-digit lock code; write down the number for future reference; press SAVE.

NOTE - If the security code is forgotten or misplaced, use the universal code "864" to unlock.

Humidification

BASIC & PRECISION—if set up by the installer settings for BASIC or PRECISION, this adjustment controls the relative humidity (RH) between 15 and 45%.

Scroll to HUMIDITY SETTINGS; press ENTER. Press the box below HUMIDIFY.

```

  HUMIDIFY  MODE
HUMIDIFY  DEHUMIDIFY
  ▲         ▲
┌─┘       └─┘

```

Use up/down arrows to change the humidity setpoint (between 15 and 45%); press SAVE.

```

HUM SETPOINT
DEFAULT (45%)  40%  ▲▼

```

DEWPOINT—if set up by the installer settings for DEWPOINT, this adjustment (only when in heating mode) will change the humidification setpoint based on the outdoor temperature and a user-defined dew point adjustment setting. When humidifying, if condensation forms on the windows, the dewpoint should be adjusted in the range of -15 to -5%; if the home feels dry, set dewpoint upward in the range of +5 to +15%.

Scroll to HUMIDITY SETTINGS; press ENTER. Press the box below HUMIDIFY.

```

  HUMIDIFY  MODE
HUMIDIFY  DEHUMIDIFY
  ▲         ▲
┌─┘       └─┘

```

Use up/down arrows to change the dewpoint (between +15 and -15%); press SAVE.

```

DEW POINT ADJ
DEFAULT (0%)  -5%  ▲▼

```

NOTE - Dewpoint adj available only when outdoor sensor is attached.

OFF—if OFF selected in installer settings for both humidify and dehumidify, this message appears when HUMIDITY SETTING is pressed:

```
HUMIDITY MODES OFF
```

If OFF is selected by the installer settings for HUMIDIFY but DEHUMIDIFY is on, the dehumidification menu appears (this setpoint adjustment has NO effect on humidification):

```


DEHUM SETPOINT
DEFAULT (50%)  45%  ▲▼

```

Dehumidification


If your system is set up to control dehumidification, this adjustment controls the relative humidity (RH) between 45 and 60%. Scroll to HUMIDITY SETTINGS; press ENTER. Press the box below DEHUMIDIFY.

HUMIDITY MODE
HUMIDIFY DEHUMIDIFY



Use up/down arrows to change the humidity setpoint (between 45 and 60%); press SAVE.

DEHUM SETPOINT
DEFAULT<50%> 45%



OFF—If your system is set up for neither humidifying or dehumidifying the air, this message appears when HUMIDITY SETTING is pressed:

HUMIDITY MODES OFF

If your system is set up for humidifying but not dehumidifying, the dehumidification menu appears when HUMIDITY SETTING is pressed (this setpoint adjust has NO effect on dehumidification):

HUM SETPOINT
DEFAULT<45%> 45%




Humiditrol® Enhanced Dehumidification Accessory (EDA)

If your system includes a Humiditrol® Enhanced Dehumidification Accessory, if an outdoor sensor is installed, and if Humiditrol mode is selected in the installer settings, the following setting is available:


Scroll to HUMIDITY SETTINGS in user settings to confirm that you can control the DEHUMIDIFY setting.

HUMIDITY MODE
HUMIDIFY DEHUMIDIFY



HUMIDITROL ADJUST is available in the user settings. The default setting is MAX dehumidification but can be changed to MID or MIN. Use arrows to scroll to MID or MIN; then press SAVE.

HUMIDITROL ADJUST
DEFAULT (MAX) MIN



Temporary Temperature Change—Pause the Schedule

Two types of temperature changes may be made: temporary (while in the SCHEDULE ON mode) or permanent (while in SCHEDULE OFF).

NOTE - If autochangeover is enabled at the time a temperature hold is invoked, the thermostat MAY CHANGE OVER from heating to cooling and vice versa, to maintain the temperature hold setpoint. The autochangeover deadband (minimum separation between the heat and cool set points) is still used to determine whether changeover occurs. This applies to all of the following hold modes.

Temporary Temperature Changes (schedule ON)

While the system is running with the schedule ON, any change to the temperature settings may be made for the default time (approximately 3 hours) or for as long or short a time as you wish. Therefore, following the procedure will set a HOLD on the schedule for a few hours or for up to 45 days. Figure 6 shows a typical screen set in the AUTOchangeover mode. If the SYSTEM were set in HEAT, COOL, or EM HEAT mode, only the top set of arrows appear.

1. On the home screen, press the UP or DOWN arrow to adjust to the desired temperature.
2. A set of arrows appears to the right of the information display; use these arrows to adjust the hold period for as long as desired, or, if not changed, this setting will hold for approximately 3 hours.
3. Press SAVE.
4. After saving, "ON" next to the SCHED button flashes slowly, and the information display alternates between the following:

HOLD SETTING UNTIL
WKD MMM DD HH:MM

and

PRESS SCHED TO
RESUME PROGRAM

5. After the 3 hours expires, the scheduled programming will resume, OR, press SCHED to cancel the hold.

Permanent Temperature Changes (schedule OFF - non-programmable operation)

To make a change for an undefined time span, the schedule must be turned OFF. The setpoint is maintained indefinitely.

1. From the home screen, press SCHED to turn the scheduled programming OFF.
2. Press the UP or DOWN arrow to set the temperature to the desired temperature.

The information display field continues to display the active mode, outdoor temperature, indoor relative humidity. Turning the schedule back ON (press SCHED box on home screen) will cancel a permanent hold and return to the event-programmed mode.

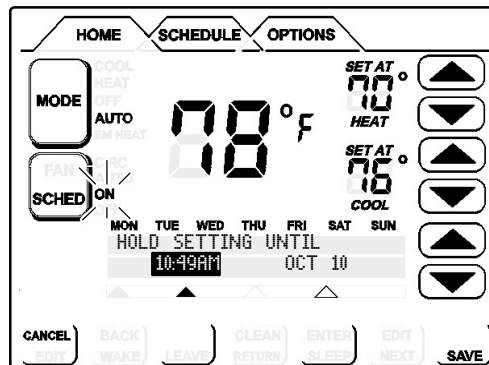


Figure 6. Setting a Hold on the Schedule

Optional Remote Outdoor Sensor

The outdoor sensor (X2658) may be required, especially when using Humiditrol® EDA applications. In addition to measuring and displaying outdoor temperature, the outdoor sensor provides dew point adjustment and control for all models. If used with this thermostat, the sensor enables optimal heating equipment operation via programmable balance points. The screen will display NO OUTDOOR SENSOR until the outdoor sensor is installed, the feature is turned on in the USER SETTINGS, in the DISPLAY INFO option. The outdoor temperature is displayed in the information display (lower center of the screen).

NOTE - For proper operation of Humiditrol® EDA applications, the outdoor sensor MUST be installed.

In many applications, the ComfortSense® Model L7742U thermostat displays the temperature sensed by the remote outdoor sensor. With the heat pump system, the remote outdoor sensor helps determine when to turn on the second stage of heating for optimal comfort.

When the outdoor sensor is connected, the temperature displays in the information display area (below the indoor temperature display).

Memory Protection

The thermostat stores all the information concerning its programming (state, mode, program information, last temperature measured) in a nonvolatile memory.

This function avoids the loss of the state of the thermostat when a power-down occurs. The only thing that might be lost is the clock, however, a lithium battery will remember clock information for as long as it has charge (approximately 30 days). When power down occurs (due to a power outage) the thermostat is able to switch off all relays. The O and B relay will maintain their last state.

Service Reminders

The user may turn on and turn off the following service reminders (all of which default to OFF) in either chronological time and/or run time and may be reset (to default) or delayed (snooze) at any time:

- Replace Media Filter
- Routine Sys (System) Check-up
- Replace Hum (Humidifier) Pad
- Replace UV Lamp
- PureAir™ Maintenance

NOTE - When chronological time is selected, the timer runs based on the calendar. When time is selected in run time, the timer runs based on the time the specific output is ON (e.g. Fan output for Media Filter).

When the reminder time (either calendar time or run time) has elapsed, the system displays a screen from which the user can either RESET or DELAY the reminder.

The user can reset the timer either before it has expired (i.e. reminder is set to 6 months and user decides to reset it to 6 months or change it to different value at the end of 4th month) or when the time has expired and a reminder message has been displayed.

When a reminder is turned off, the indicator will not be activated even if the timer is expired. Note that setting filter reminder to 0 (OFF) will not reset the timers, but will deactivate the filter indicator.

In the case of a power interruption:

- lithium battery has charge—the total accumulated time is maintained (i.e. the counter does not recycle to zero).
- *lithium battery has NO charge*—the due date of reminders is maintained.