

User Guide:

Color Touchscreen Communicating with Humidity Control Thermostat
TPCC32U01

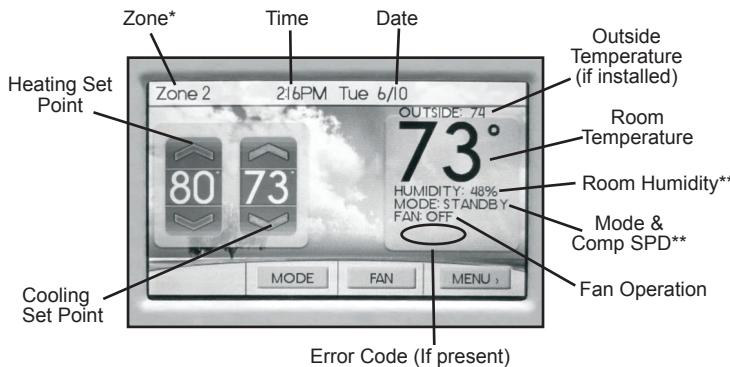


**Color Touchscreen Communicating with
Humidity Control TPCC32U01**

Thermostat User Information

This thermostat is a wall mounted, low-voltage thermostat which maintains room temperature by controlling the operation of a heating and air conditioning system. Batteries are not required; temperature and mode settings are preserved with the power off. This communicating thermostat communicates via a 4-wire Modbus protocol and will operate as a stand-alone thermostat with the Aurora Control System or as a zone thermostat (not the MasterStat) in the IntelliZone2 or IntelliZone2 • 24V Zoning system. The thermostat will auto recognize whether it is connected as a stand-alone thermostat or a zone thermostat and display the proper set up screens

Thermostat Operation



* Displayed if configured as a Zone Thermostat

**Comp SPD and Room Humidity only displayed if configured as a stand-alone thermostat

NOTE: Outdoor temperature is only displayed if an outdoor sensor is installed.

To select a MODE, press the screen button MODE, and then press the desired operating mode.

OFF

HEAT

COOL

AUTO (heat and cool as needed)

E-HEAT (Not selectable if configured as Zone Thermostat)

Adjusting Temperature

(Temporary Override in Programmable models)

Press the blue up or down arrow to increase or decrease the cooling temperature set point. Press the red up or down arrow to increase or decrease the heating temperature set point. Depending on the selected mode one or both sets of the up/down arrows will be selectable.

If a programmed schedule is active, the cancel button in the lower left hand corner of the screen will show up when temperature or mode selections are made. Select the button to cancel any changes that were made.

Menu

(Screens shown below are for stand-alone thermostat configuration)

Press the Menu button.



NOTE: The humidity function must be enabled by the installer for it to display on this screen. If your system does not use a humidifier this function may not be enabled.

(If configured as a Zone Thermostat, the menu will appear as depicted below.)



Fan Operation

The thermostat can operate the fan in three ways:

AUTO (on only during heating and cooling operation) (DEFAULT)

CONTINUOUS (always on)

INTERMITTENT (cycles fan)

From the Home screen or Menu Screen, press the Fan button. Select the operation you desire as described above by pressing the up and down arrows ▲ ▼.





Intermittent Fan

Temperature conditions can vary widely between the thermostat location and extremities of the space the thermostat serves. This air stratification problem can be especially pronounced during mild outdoor conditions when long periods elapse between space conditioning demands from the thermostat. This intermittent fan operation can also improve the performance of air cleaning or special filtration systems that locate the cleaning or filtration media at the return air side of the fan. If the FAN hasn't been on for an hour, the fan will start cycling based on these times. Default is OFF. The first screen is the amount of time you want the fan to be energized. Ranges are OFF, or 5-20 minutes in 5 minute increments. Then adjust the amount of time the fan is OFF. Ranges are 0 minutes, or 5-40 minutes in 5 minute increments. Fan ON and OFF cycles will continue until the fan has been energized by a call for heating or cooling.

Humidity

(NOTE: This option is not available if configured as a Zone Thermostat, but is available at the MasterStat.)



The humidity function must be enabled by the installer for this screen to be visible. If your system does not use a humidifier then this option may not be enabled. This allows adjustment of Humidification and Dehumidification settings. Options are Auto, Manual, factory default setting for Dehumidification is "Auto". Humidification "Auto" is only available if an outdoor sensor is installed. Humidification only works with an active heating call. Manual humidity choices range from 15% to 50% in 1% increments. Dehumidification choices range from 35% to 65% in 1% increments. **Active dehumidification (Variable Speed Heat Pumps Only)** will only activate during cooling operation and is based upon the humidity set point of the thermostat being at least 5% below the actual relative humidity. When in active dehumidification the room temperature could be overcooled 1.5°F below set point. In this mode you may see increased energy usage.

Programming Your Thermostat

Preset Programming

(NOTE: This option is not available if configured as a Zone Thermostat, but is available at the MasterStat.)

Preset options will step you through the programming. Simply select the temperatures and then view the completed program.



Programming a Day or a Series Of Days

After selecting the programming screen, you have the option of programming everyday, weekdays, weekends, or individual days. Once you've selected a certain day to program, a screen appears that allows you to set the time, heat setting, cool setting, and fan operation for each event.

1. From the Program menu, select program ON.
2. Select the number of events each day, 2 or 4.
3. You can program each day differently, or every day the same or the weekdays or weekends the same.



Copying a Program From One Day to Another

In the PROGRAM menu, there is an option to COPY. The option can be used to copy the program from one day to another day. After COPY is selected, the thermostat will prompt you for which day to copy from. Next, it will prompt you for which day to copy the program to. After these selections, it will then confirm what is being copied to where.



Settings

Set Date and Time

(NOTE: This option is not available if configured as a Zone Thermostat, but is available at the MasterStat.)

NOTE: If this thermostat is installed with an AWL and AWL Time Synchronization is enabled then Date and Time will be updated via the internet and can't be manually adjusted. If AWL Time Synchronization is disabled or no AWL is installed then follow the steps below for setting Date and Time.



1. From the home screen, press Menu, then press Settings, then press Date/Time
2. Set month/ day/year, by pressing the up and down arrows **▲▼**.
3. Set hour: minute, by pressing the up and down arrows **▲▼**.
4. Within this menu option, you can change the time displayed by your thermostat to 24 Hour time (Military Time).
5. If your area observes daylight savings time, select D.S.T. to ON.
6. Date and Time are now set. You can return to the Main Menu by pressing the BACK to return to the previous menu.

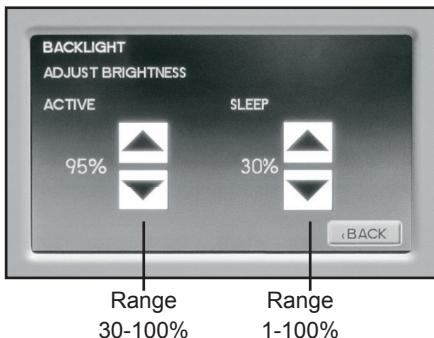
Security Lockout

This thermostat has the option to set security features to lockout everything but the adjustment of the temperature.

1. From the home screen, press Menu, then press Settings.
2. Select Security, press ON.
3. Enter Pin Number screen.
4. Select a pin number to lock out the thermostat. Once you've entered the 4-digit pin number, press the OK button to save the pin.
5. In the event pin number is lost default is 9999

Backlight

Press the up and down arrows **▲▼** to adjust desired backlight brightness when the thermostat is in active display or in the sleep display mode. (Default setting is 55% ACTIVE, 10% SLEEP)



Sound

Adjust the desired sound level of screen buttons when pressed and the desired sound, either beep, one click, or two clicks.



Background

Select the desired background. This will only change the home screen background. The Pictures icon button allows loading or replacing personal photos to the Thermostat, once they have been formatted, using the photo converter software. This software and instructions are available online at www.auroracontrols.com. Once the photos have been converted to the correct format and uploaded to the Thermostat they will run as a slide show after 5 minutes of inactivity (no screen touches).



Vacation

(NOTE: This option is not available if configured as a Zone Thermostat, but is available at the MasterStat.)

From the MENU, press the Vacation button to set vacation starting date, time, and desired temperature, return date, time. To cancel this setting, press the CANCEL button.

Press the OK to return to the previous menu.



USB

This screen allows you to import or export the User setting or Program. Mini USB Adaptor and Flash Drive required.

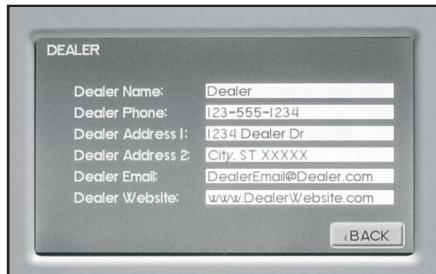
**Superboost (Variable Speed Heat Pumps Only)**

(NOTE: This option is not available if configured as a Zone Thermostat, but is available at the MasterStat.)

Superboost can be found by pressing menu/settings on the thermostat. The Superboost option temporarily enables a larger cooling capacity range. Normal cooling mode is limited to compressor speeds 1-9 and Superboost allows compressor speeds 10-12 if needed. This screen will allow the homeowner to turn on or off the Superboost option. The Superboost option will be enabled, by default, for a 24-hour period of time and then will automatically be disabled. **NOTE:** Continuous use of the Superboost could result in overheating the ground loop.

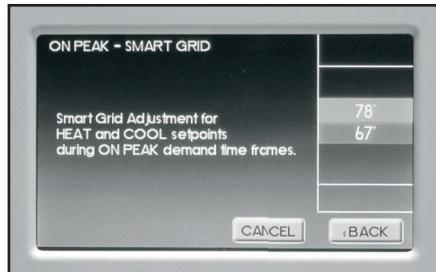
Dealer

The installing dealer's contact information can be displayed on this screen. From the main screen, press Menu and then press Dealer. The dealer will enter this information during system installation.

**On Peak (If Installed)**

(NOTE: This option is not available if configured as a Zone Thermostat, but is available at the MasterStat.)

This screen allows you to adjust the desired On Peak temperature.

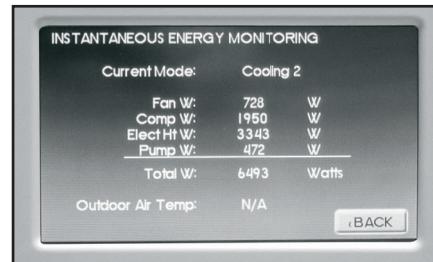
**Energy Monitoring (If installed)**

(NOTE: This option is not available if configured as a Zone Thermostat, but is available at the MasterStat.)

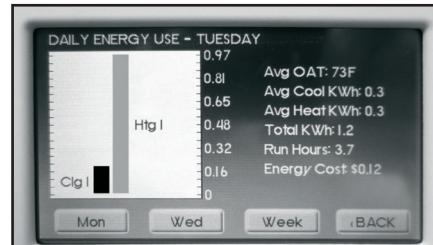
If your heat pump has energy monitoring installed, the energy consumed can be viewed by pressing the Energy button. There are three choices to view the energy consumed: Instant, Daily, and Monthly.



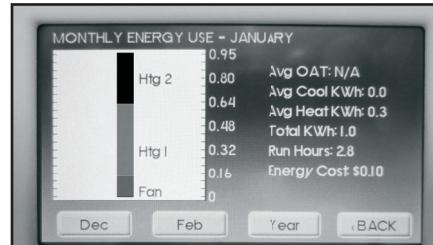
Instantaneous Energy Use screen



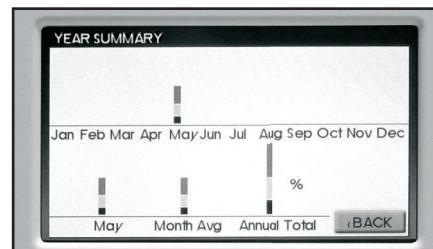
Daily Energy Use screen



Monthly Energy Use screen



Yearly Summary screen



KWH Cost

(NOTE: This option is not available if configured as a Zone Thermostat, but is available at the MasterStat.)

To enter your electric utility rate, select KWH cost. The cost can be set from \$0.01 to \$2.00. The default cost is \$0.10. The total energy cost for the system will be displayed on the daily and monthly summary screens



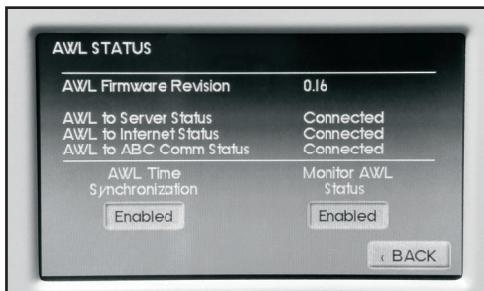
AWL Status (If Installed)

(NOTE: This option is not available if configured as a Zone Thermostat, but is available at the MasterStat. If AWL is installed, it is recommended that you enable both the AWL Time Synchronization and Monitor AWL Status.)

This screen displays the AWL firmware version and provides the current AWL communication status relating to an Aurora WebLink (AWL) device. This screen is available whether an AWL is installed on the system or not.

AWL Time Synchronization - When enabled the AWL will synchronize the thermostat's date and time with internet time servers. This option by default is disabled. **NOTE: setting the proper time zone in the Symphony Portal is necessary for correct operation.**

Monitor AWL Status - When enabled, the thermostat will monitor the AWL's RS485, INTERNET, and SERVER status. The thermostat will display "AWL Comm Err" when the AWL is not communicating properly with the Aurora Modbus Network, "AWL Internet Err" when the AWL is unable to communicate to the symphony Servers.



CAUTION: To clean the thermostat display, lightly dampen a clean non-abrasive cloth with water or any non-abrasive household cleaner. To clean, gently wipe the surface of the thermostat.

NOTE: Do not spray liquids directly on the thermostat.



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IG1615EW 06/16

997-012330-17-R