

User Manual

Climatouch™ CT03TSB Thermostat

Climatouch™ CT03TSHB Thermostat with Humidity Control

Outdoor UHF Temperature Transmitter 217S31



AED Electronics Inc.

Patents Pending

Climatouch

PICTURE: Climatouch™ CT03TSHB Thermostat with Humidity Control



Dear Customer,

*Thank you for purchasing a Climatouch™ thermostat,
the most innovative thermostat in the world.*

**Did you know that your Climatouch™ thermostat
can also accurately display outdoor temperature?**



*To enable this convenient feature you need an
optional outdoor UHF temperature transmitter.
There is no need for any additional installation or
set-up. Simply place the transmitter unit outdoors
and your Climatouch™ thermostat will start displaying
accurate outdoor temperature immediately.*

**Ask your installer for an optional
outdoor UHF temperature transmitter today!**



Climatouch

UHF TEMPERATURE TRANSMITTER PART NUMBER: 217531

www.climatouch.com

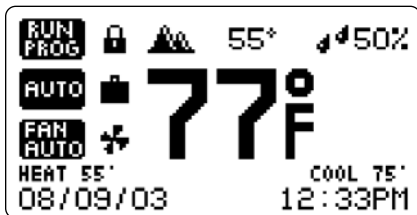
Climatouch™ CT03TSB / CT03TSHB Programmable Universal Touch Screen Thermostat

Welcome to Climatouch™ - the first and last thermostat you will ever have to buy - it is that reliable, versatile and easy to use. This manual will enable you to operate your new Climatouch™ CT03TSB / CT03TSHB Programmable Universal Touch-Screen Thermostat.

Climatouch™ CT03TSB / CT03TSHB has been engineered to the highest electronic and logical standards. We have worked hard to make the operation of this Climatouch™ product user friendly and intuitive. Our priority was to design a product that would stand the test of time. It is rare to find an operationally friendly product that does not require regular referral to a long and complicated instruction manual.

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HOME PAGE

1. Home Page

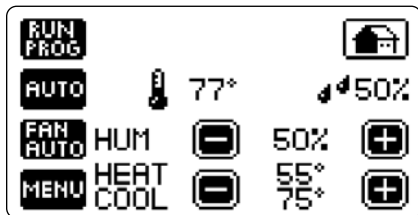
From any screen, you may return to the Home Page by touching the HOME ICON:



The Home Page displays the following information:

1. Current Room Temperature
2. Current Room Humidity (CT03TSHB model only)
3. Current Outside temperature (optional)
4. Current Thermostat Operation Mode
RUN PROGRAM/HOLD TEMPERATURE
5. Current Temperature Control Mode
AUTO/HEAT/COOL/EMERGENCY HEAT
6. Fan Operation Mode
FAN AUTO/FAN ON/FAN INTERMITTENT
7. Fan ON Indicator
8. Vacation Mode ON Indicator
9. Security ON Indicator
10. Heat setpoint
11. Cool setpoint
12. Date (Month/Day/Year)
13. Time





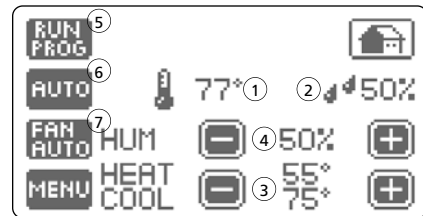
CONTROL PAGE

2. Control Page

By simply touching the Home Page with your finger, you will be taken to the Control Page.

The Control Page displays the following:

1. Current Room Temperature
2. Current Room Humidity (CT03TSHB model only)
3. Temperature Setpoint
4. Humidity Setpoint (CT03TSHB model only)
5. Current Thermostat Operation Mode
RUN PROGRAM/HOLD TEMPERATURE
6. Current Temperature Control Mode
HEAT/COOL/AUTO/EMERGENCY HEAT
7. Current Fan Operation Mode
FAN AUTO/FAN ON/FAN INTERMITTENT

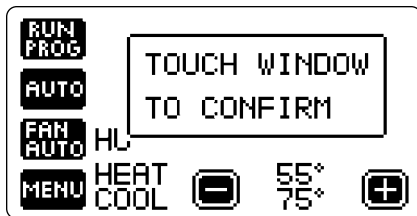


From the control page, you may:

- Change the Temperature Setpoint
- Change the Humidity Setpoint (CT03TSHB only)
- Change the Thermostat Operation Mode
- Change the Temperature Control Mode
- Change the Fan Operation Mode
- Access the Menu Screen

Please note that after changing modes of operation, you will be asked to confirm your change with the following window:

If you are sure of the change, touch the window - otherwise wait 10 seconds and the previous setting will return.



2.1 Selecting the Thermostat Operation Mode

Climatouch™ can run in Program Mode or can hold a fixed temperature.

Select between one of the following two modes of operation:



By selecting Run Program, the Preset Temperature Control Program will be initiated. This feature allows you to run pre-set events during the day or week. Refer to Section 3.3 PROGRAM SETTINGS for instructions on programming events.



In COOL mode for instance, the setpoint is displayed in the following way:



You can change the room temperature setpoint by touching the + to raise, and - to lower.

2.2 Selecting the Temperature Control Mode

You must select either COOL, HEAT, AUTOMATIC or EMERGENCY HEAT temperature control MODE

Please note that depending on the specifics of the HVAC system, not all of the aforementioned options will appear on the Climatouch™ display.



By selecting Hold Temperature mode, Climatouch™ will regulate the room temperature as determined by the Temperature Setpoint.

OFF

By selecting OFF, Climatouch™ will not control temperature at all. This means that all HVAC systems will be deactivated. Please note that in this mode, Climatouch™ will nonetheless continue to display the current room temperature, current room humidity (CT03TSHB model only) and outdoor temperature (optional feature).

AUTO

Automatic mode allows you to keep the room at a given temperature by using both the cooling and heating units. This means that heating and cooling units will work together to keep the room between the range setpoint. Note that you can adjust the range setpoint only once you have selected and confirmed the automatic mode.

Once you have confirmed Automatic mode, the temperature setpoint will be shown in the following manner:

HEAT 55°
COOL 75°

You may adjust the setpoint by pushing + to raise and - to lower.

HEAT 55°
COOL 75°

To set temperature for any AUTO mode, including PROGRAM SETTINGS, first switch the thermostat to HEAT mode and set heat setpoint. Then switch the thermostat to COOL mode and set cool setpoint. Finally, switch the thermostat to AUTO mode. Please note that the difference between the heat and cool setpoints can be bigger, but not smaller, than the Minimum Difference set. For more information refer to Section 5.6 Minimum Difference in the Installation Manual.

COOL

By selecting COOL, Climatouch™ will only turn on the air conditioning to regulate room temperature.

To adjust the cool temperature setpoint, press + to raise and - to lower

COOL 75°

HEAT

By selecting HEAT, Climatouch™ will only turn on the heating units to regulate room temperature.

To adjust the heat temperature setpoint, press + to raise and - to lower.

HEAT 55°

EMER
HEAT

By selecting Emergency Heat, Climatouch™ will switch on the furnace and disable the heat pump.

2.3 Selecting the Fan Operation Mode

You must select between one of the following three modes of fan operation:



In Auto Fan, the fan will turn on only when there is a demand for heating or cooling.



In Fan On mode, the fan will run continuously.



In Fan Intermittent mode, the fan will run 20 minutes per hour or whenever a demand for heating or cooling is made. Fan Intermittent Mode is a convenient way to filter the air intermittently while saving energy.

When the fan is running, the animated fan icon will appear at the home page



2.4 Accessing the Menu Page



By touching the Menu button, you will be taken to the MENU page. Refer to Section 3 for further detail.

2.5 Adjusting the Humidity Setpoint (CT03TSHB Model Only)

You may adjust the humidity setpoint by pressing + to raise the setpoint and - to lower the setpoint.



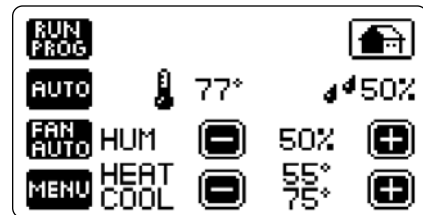
Refer to Section 3.9 for more instructions on the Humidity control.



MENU PAGE

3. Menu Page

To access the Menu Page, from the Control Page, touch the MENU button, located on the bottom left-hand corner of the screen.



From the MENU page, you may:

- Access Date and Time Settings
- Access the Advanced Settings
- Access the Program Settings
- Access the Vacation Settings
- Access the Energy Watch Screen
- Access the Filter Monitor Screen
- Clean Screen
- Access the Set Screen Menu
- Activate Humidify/Dehumidify Function (CT03TSHB model only)



3.1 Date and Time Settings

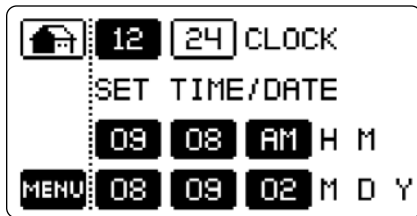
DATE/TIME SETTINGS

Select either the 12 hours or 24 hours clock display:

Set the Time of day by pressing on the hour and minute buttons:

Set the Month, day and Year by pressing the appropriate buttons:

This option allows you to change the current Time and Date.



3.2 Advanced Settings

To access the advanced settings, you must hold the button for 5 seconds continuously. Do not be alarmed - Climatouch™ will beep continuously during the 5 seconds. Release the button once the Advanced Settings Menu Appears. Refer to Section 4 for details.

ADVANCED SETTINGS

CAUTION: Altering the compressor and furnace configuration settings in this menu could affect system performance and should be changed only by your installer.

3.3 Program Settings

PROGRAM SETTINGS

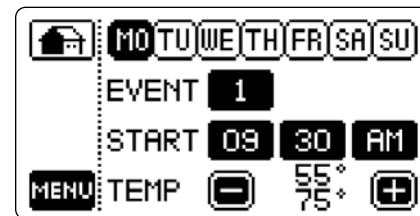
This features allows you to pre-program temperature changes.

There are four available changes in temperature settings per day (four events per day) that may be pre-programmed.

To do so:

1. Select the Day of the week.
2. Select the Event number.
3. Select the Start Time of the Event
4. Select the desired temperature setpoint
5. Select the next Event number and repeat steps 3 and 4.

Once you have set all the events for one day you may wish to copy the same settings to other days of the week.



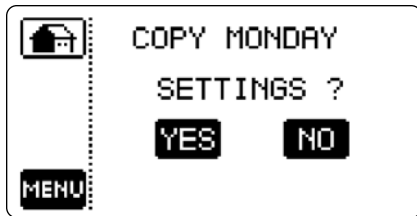
To do so, first make sure the program settings are correct.

Then select the next day of the week that you would like to have the same program setting.



Climatouch™ will then prompt you to copy the settings.

To activate the Program, select RUN PROGRAM from the Control Page.



To set temperature for AUTO mode in PROGRAM SETTINGS, first switch the thermostat to HEAT mode and program all of your heat settings for the week. Then switch the thermostat to COOL mode and program all of your cool settings for the week. Finally, switch the thermostat to AUTO mode. Please note that the difference between the heat and cool setpoints can be bigger, but not smaller, than the Minimum Difference set. For more information refer to Section 5.6 Minimum Difference in the Installation Manual.

3.4 Vacation Settings



Vacation Settings allows you to set the temperature to a fixed setpoint during the time you are on vacation.

Please note that either HEAT or COOL must be selected from the control page before entering the Vacation Settings page. Refer to Section 2 on how to change from HEAT to COOL, or vice versa.

1. To activate this feature select VACATION MODE ON



The Vacation Settings screen will appear.

2. Select the Begin day

3. And the End day

4. Adjust HEAT or COOL temperature setpoint.

Vacation mode begins at 10 p.m. on the day of your departure and ends at midnight (12 a.m.) on the day of your arrival.

If you wish to COOL and only the HEAT setpoint appears on this page, touch the OFF button and exit the screen.

Proceed to the Control page and toggle the AUTO/COOL/HEAT/EMERGENCY HEAT Selector button until COOL appears.

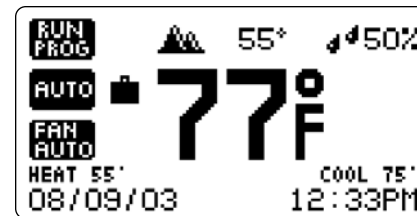
Touch the window to confirm the change. Go back to the Vacation Settings and adjust the COOL setpoint.



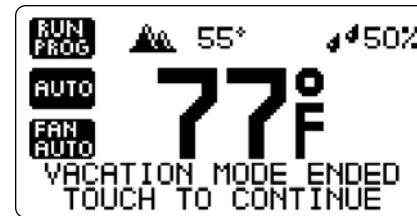
OFF

COOL

When vacation mode is active, the vacation suitcase icon will appear on the main page.



When you return from vacation, you will see a message VACATION MODE ENDED displayed on the screen. Simply touch the screen to acknowledge the message.

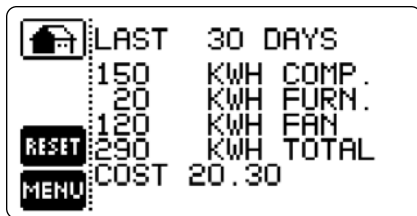


3.5 Energy Watch

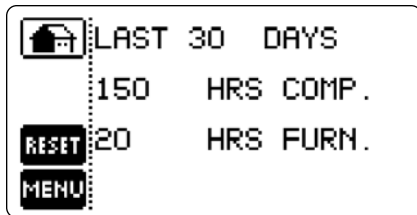
ENERGY WATCH

Energy Watch provides a report on the energy consumption of your system (for up to the last 255 days).

If appropriate kW ratings of HVAC system components and the cost of electricity per kWh have been entered in the ENERGY WATCH settings at the ADVANCED SETTINGS page, ENERGY WATCH will display kWh consumption as well as the dollar cost of the HVAC system.



Otherwise, it will display only the total time the Compressor and the Furnace have been operating.



Pressing RESET located on the left-hand side of the ENERGY WATCH page will reset counters to zero.

3.6 Filter Monitor



The Filter Monitor function indicates how many days of "fan run time" the air filter has been used - it should be reset after changing your air filter.

3.7 Clean Screen



To activate this function refer to the Section 5.3 Filter Monitor in the Installation Manual

This function allows you to wipe and clean the screen without accidentally changing any of the settings; it places Climatouch's touch screen in a sleep mode for 8 seconds.

To clean the screen:

1. Lightly dampen a tissue with water,
2. Press the CLEAN SCREEN button and gently wipe the screen.
3. Stop wiping when the warning alarm sounds. The alarm indicates that the touch screen will subsequently become active.



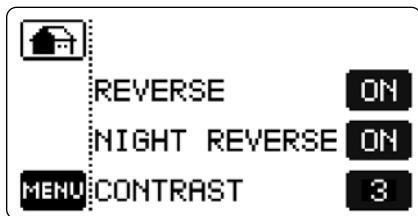
4. If you need to repeat the process, simply press the CLEAN SCREEN button once again.



3.8 Set Screen



Touch the SET SCREEN option to change the properties of the touch screen - the following page will appear:



The Reverse function will change the display's background color from white to black.

Select ON for a dark background.



Select OFF for a white background



The Night Reverse function changes the display's background to black after 9 p.m. and white after 6 a.m. - this function automatically dims the display for optimal nighttime and daytime viewing.

Select ON to activate the Night Reverse.



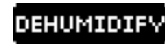
Select OFF to deactivate the Night Reverse.



The Contrast functions sets the contrast of the screen. The setting ranges from 0 to 11.



3.9 Humidify / Dehumidify Feature (CT03TSHB Model Only)



HUMIDIFY and DEHUMIDIFY functions allow you to control the relative humidity of the room.

To disable the humidity control feature, from the Control page, turn down the humidity setpoint to 10%, or any value substantially lower than the actual current room humidity.

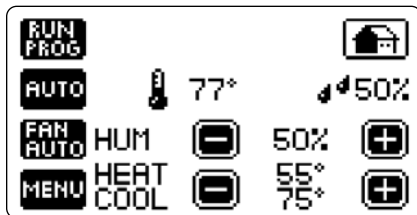


HUMIDIFY

The Humidify feature allows you to raise and maintain the relative humidity of the room to a specific setpoint.

Once this option is selected, you must access the Control Page to select the humidity setpoint:

Press the raise + button or the lower - button until the desired setpoint is reached.



An example of typical use of the Humidify function:

If the current room humidity is 30%, Climatouch™ will initiate the humidifier to function until the setpoint (40% in this case) humidity is reached. In order to humidify the room effectively (and to activate your humidifier), you must set the humidity setpoint above the current room humidity.

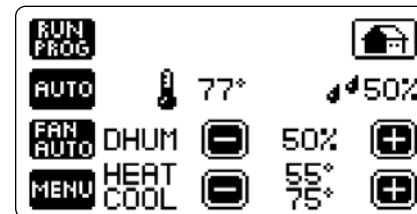
NOTE: A +/- 5% dead band will ensure that your system will not over-extend itself. This means that the humidifier will function until the room humidity reaches 45% and that it will not re-activate until the humidity level drops below 35%.

DEHUMIDIFY

This feature allows you to dehumidify the room. Please note that this feature functions only in COOL mode. This means that Climatouch™ must already be configured to control a cooling unit, i.e. an air conditioner or a heat pump.

Once this option is set, you must access the Control Page to select the humidity setpoint:

Press the raise + button or the lower - button until the desired setpoint is reached.



An example - typical use of the dehumidify function:

If the current room humidity is 60 %, you may wish Climatouch™ to control at 45%. In order to effectively dehumidify, you must set the dehumidify setpoint below the current room humidity. Climatouch™ will both lower and regulate room temperature to the cooling setpoint while constantly monitoring and lowering the room humidity. As the room is cooled, the humidity will subsequently drop as well.

If you adjust the humidify setpoint to a level reached before the cool temperature setpoint, then the air conditioning will turn off before the temperature setpoint is reached.

Do not worry. You will feel just as comfortable having reached a low humidity level (even though the room is not necessarily at the desired temperature). This feature has been specially designed to save energy.

Please note that since the DEHUMIDIFY feature uses the COOL function of your Air Conditioner or Heat Pump, if the dehumidifier setpoint is reached before the cooling temperature setpoint, your Air Conditioner or Heat Pump will turn off.

NOTE When using the DEHUMIDIFY feature, your Climatouch™ thermostat will turn off the air conditioning if either the dehumidifier setpoint or the temperature setpoint is reached, **WHICHEVER COMES FIRST.**

Limited Warranty

Hardware

AED Electronics Inc. ("AED") warrants the original end user ("Customer") that new Climatouch branded products will be free from defects in workmanship and materials, under normal use, for two (2) years from the original purchase date.

Software

AED warrants to Customer that the Climatouch thermostat software will perform in substantial conformance to its program specifications for a period of two (2) years from the date of the original purchase.

Exclusions

This warranty excludes (1) physical damage to the surface of the product, including cracks or scratches on the touch-screen or outside casing; (2) damage caused by misuse, neglect, improper installation, unauthorized attempts to open, repair, or modify the product, or any other cause beyond the range of intended use; (3) damage caused by accident, fire, power changes, other hazard, or Acts of God; or (4) use of the product with any device if such device causes the problem.

Exclusive Remedies

Should a covered defect occur during the warranty period and Customer notifies AED, Customer's sole and exclusive remedy will be, at AED's sole option and expense, to repair or replace the product. Replacement products or parts may be new or reconditioned or a comparable version of the defective item. AED warrants any replaced product or part for a period of ninety (90) days from shipment, or through the end of the original warranty, whichever is longer.

Obtaining Warranty Service

Customer must contact and return product to a local AED product dealer or installer within the applicable warranty period to obtain warranty service. Dated proof of original purchase will be required. AED will not be responsible for Customer's memory data contained in, stored on, or integrated with any products returned to AED for repair, whether under warranty or not.

Warranty Exclusive

THE FORGOING WARRANTIES AND REMEDIES ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, CORRESPONDENCE WITH DESCRIPTION, AND NON-INFRINGEMENT, ALL OF WHICH ARE EXPRESSLY DISCLAIMED BY AED AND ITS SUPPLIERS.

Disclaimer

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