

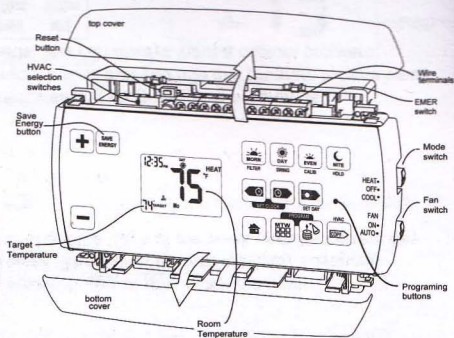
Operation Guide T22

The T22 programmable communicating thermostat operates via a simple keypad. To program or adjust your T22, simply press your finger firmly on the keypad keys. The backlight will automatically light up. You can program the T22 with unique 7 days or use it like a 5-1-1 programmable with Saturday and Sunday different from all other days of the week. A program that fits your lifestyle can save energy.

Statement of use: The T22 is 100% Compatible with all popular low voltage residential HVAC systems; single, and two stage conventional heating systems (gas/oil/electric), heat pumps, single or with auxiliary heat (electric or fossil), zoned forced air and zoned hot water (2 or 3 wire), millivolt systems, one or two stage cooling, and hybrid systems. It cannot be used with line voltage systems (115/230VAC). This thermostat is digital and your desired heat or cool temperatures can easily be set with the +/- buttons. A minimum 4 minute off time protects the compressor from damage.

Radio()Thermostat

Radio Thermostat Company of America



Set Clock

Set time of day -

- From the screen, Press or to set the time. Press and hold to set the time in fast mode.
- Press to store your settings.

Set day of the week -

- Press (SET DAY) once to set the day of the week. The day of the week display advances (Initially SU for Sunday). Press again to step through the days of the week until the correct day is displayed.
- Press to store your settings.

Energy Saving Program

This thermostat comes preprogrammed with an energy saving program. This program is recommended for energy efficiency. We strongly recommend that you use this program for one week and see if it works for you. If it does not fit your needs, you can always input a custom program.

EPA	MORN	DAY	EVEN	NITE		MORN	DAY	EVEN	NITE	
HEAT	6:00am	8:00am	6:00pm	10:00pm		COOL	6:00am	8:00am	6:00pm	10:00pm
All Days	70°F	62°F	70°F	62°F		All Days	78°F	85°F	78°F	82°F

- To run the energy saving program, select HEAT or COOL with the mode switch. The unit is now running the energy saving program.

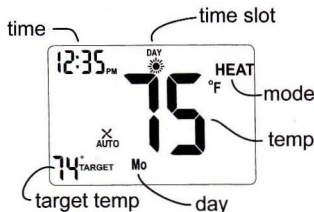
- One of the TIME SLOT icons MORN, DAY, EVEN, NITE comes on. This indicates the TIME SLOT active in the energy saving program. For program details refer to the energy saving program chart.

To Change the Program

NOTE: 60 Second Rule-

During programming if a button is not pushed within 60 seconds, the unit will go out of the set mode. Everything you have input in this programming will automatically be saved.

- Select either HEAT or COOL by setting the MODE switch.
- Press and hold the daily PROGRAM button for 5 seconds.
- Select the day you want to program by pressing to cycle through the days of the week to the desired day.
- Select the Time Slot (period) you want to program (morning, day, evening, night).
- Select the desired start time of that Time Slot by pressing or to set the time. This is the starting time of the Time Slot.
- Select the desired target temperature for that time slot by pressing the +/- buttons to select the desired temperature for that Time Slot.
- Repeat this setting procedure for all four Time Slots of the day.
- Repeat the setting procedure for all days you want to program.





COPY

This will copy one day's programming to the next day. Press **COPY** once. The information for the current day will be copied to the next day which will appear on the screen. Holding down COPY for over 3 seconds will copy to all 7 days.



- Press  to store your settings.

Keypad Functions

TIME

Press  (time backward) or  (time forward) to set the current time. Press and hold the arrow for fast time set (15 minute step).



DAY

Press  (SET DAY) to set the day of the week. The day of the week display advances (initially SU for Sunday). Press  again to step through the days of the week until the correct day is displayed.

SWING (HVAC cycling rate)

This feature allows you to set the desired variance in temperature between the T22 setting and the room temperature required before the heating or cooling system will turn on—from 0.5° to 2.0° F (.25° to 1° C). For example, if HVAC CYCLING is set to 2.0° F and the T22 is set to 70°F, the heat cycle will start when room temperature drops to 68°F. Similarly, the cooling system will start when the room temperature increases to 72°F. The HVAC then runs and will shut off at the target.

To set **SWING** rate:

- Press **SWING** (under the  DAY icon).
 - Press the +/- buttons to select the desired swing from 0.5° to 2.0° F.
- The HVAC cycling rate will be more at .5°F and less at 2°F. Default is 1°F
- Press  to store your settings.

°F
°C







Set - Press both   to toggle between °F to °C .

FILTER CHECK FILTER ALERT

The T22 is programmed to remind you when the HVAC air filter needs changing. It is set to remind you every 90 days. The **Check Filter** indicator blinks when your filter limit is reached.

To change the time of this reminder:

- Press **FILTER** (under the  MORN icon) to show filter usage to date.
- Press  to clear accumulated days. Press  arrow to restore accumulated days.
- Hold **FILTER** for 2 seconds to set filter limit with +/- buttons Filter DAYS are displayed on screen.
- Press  to store your settings.

LOCK

The T22 has a simple LOCK mode to avoid unwanted modifications to the thermostat.

To LOCK:

Press and hold HOME for 3 seconds

The LOCK icon will show on screen, All buttons are locked except HOME.

To UNLOCK:

Touch and hold HOME for 3 seconds. The LOCK icon will go out.

CALIB

Your thermostat was accurately calibrated at the factory to $\pm 1^\circ$ F of actual ambient temperature.


You do have the option, however, to change the display temperature to match that of a previous thermostat, or to match another thermostat already in your home. The range of change is from -6°F to $+6^\circ\text{F}$ or -3°C to $+3^\circ\text{C}$.

To change your Thermostat Calibration:



Press **CALIB** (under the **EVEN** icon)

Use the + / - to adjust the displayed temperature up or down, as desired.

The temperature display will show the modified temperature reading that will be displayed on the HOME screen and used as the new room temperature. Press  to store your settings.




HOLD


This will make your T22 act like a non-programmable thermostat. It will hold the target temperature you set indefinitely, until you turn **HOLD** off. Take care using the **HOLD** function as the program is now bypassed. To set a hold target temperature, press **HOLD** and use the +/- buttons to select your hold temperature. The **HOLD** icon will display on the HOME screen indicating you have changed the Target Temperature. The system will **HOLD** this temperature until you return to the manual screen. To turn off hold press **HOLD** again. **HOLD** is also canceled when you set the mode to OFF.







TEMPORARY override Touch the + / - buttons to select your desired temporary Target Temperature. The **TEMPORARY** icon will display indicating you have modified the programmed Target Temperature for the current Time Slot only. It goes back to the program target at the next period (HEAT or COOL). Also once in temporary, when the target is set the same as the programmed target for that Time Slot, the word **TEMPORARY** will go out.








HOLIDAY PROGRAM

This is a single day program that repeats day after day until you turn it off. It supersedes the weekly program. To use it press  **HOLIDAY**. The default holiday program is shown below. [Default program: HEAT 70°F all day and 62°F at night. COOL 78°F all day and 82°F at night.]

To modify the HOLIDAY program, press and hold the  button for 3 seconds.

- Select the Time Slot (period) you want to program     (morning, day, evening, night).
- Select the desired start time of that Time Slot by pressing  or  to set the time.

This is the starting time of the Time Slot.

- Select the desired target temperature for that time slot by pressing the +/- buttons to select the desired temperature for that Time Slot.
- Repeat this setting procedure for all four Time Slots     Of the HOLIDAY program.
- Press  to store your settings.

NOTE: The default HOLIDAY program is set as 2 periods; all day (same target MORN, DAY, and EVEN) and a different target for NITE.

Other Functions

SAVE ENERGY Button The "Save Energy" feature on the T22 provides a simple, easy-to-use way to help you manage your energy use. SAVE ENERGY automatically adjusts your target temperature up in COOL or down in HEAT by 4°F. To use Save Energy, press the Save Energy button in the upper left corner of the unit. The screen will now read "Save Energy". To return to normal operation, press the "Save Energy" button again. This is useful to save energy if you are gone for a short time.

FAN Switch The fan control is normally in AUTO mode, meaning that the fan operates automatically with the HVAC system and the thermostat. When the fan switch is in ON, the fan will run continuously until switched back to AUTO.

NOTE: Fan ON function is available in the OFF mode to allow simple ventilating.

EMER HEAT If you set your T22 for HEAT PUMP with auxiliary heat, EMER function is available with a switch under the top cover on the right. If you switch EMER to ON, your HEAT PUMP is disabled and auxiliary heat is your sole source of heat. This manual override stays active until you switch EMER off. Auxiliary heat is more expensive than the heat pump so use EMER only if the heat pump cannot keep up or is defective.

RESET button The RESET button re-boots the T22 processor. It does not effect the user programs that have been stored in permanent memory.

Compressor Protection The T22 has a minimum cycle time of 4 minutes to protect your compressor in cool and in heat pump (if you have one). During this time the compressor will not come on until the 4 minute delay is over.

Simple Screen This display mode limits the amount of information on screen and limits the functions to just the + and - buttons.

To access the Simple Screen hold down both + and - buttons at the same time for 10 seconds.

To leave the Simple Screen hold down both + and - buttons at the same time for 10 seconds.

Customer support: support@radiothermostat.com 877-607-5824 or www.radiothermostat.com