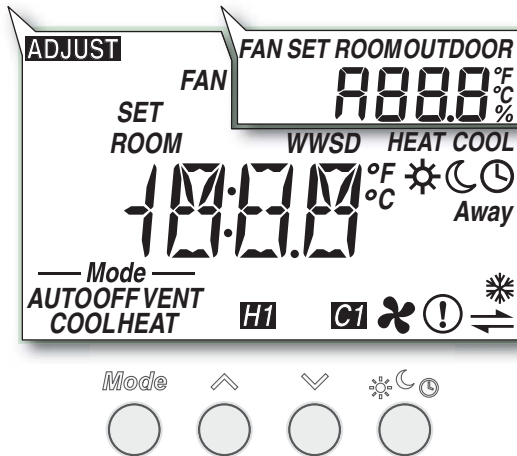


This thermostat operates your heating, cooling, and fan system.

### 1. Display

MAIN DISPLAY

SECONDARY DISPLAY

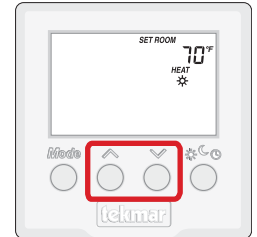


### 2. Symbols

	<b>Heat</b> Heat is turned on.
	<b>Cool</b> Cooling is turned on.
	<b>Fan</b> Fan is turned on.
	<b>Sun</b> Operating at the occupied (day) temperature.
	<b>Moon</b> Operating at the unoccupied (night) temperature.
	<b>Clock</b> Operating on a programmable schedule.
<b>Away</b>	<b>Away</b> Operating at the Away scene temperature.
<b>WWSD</b>	<b>Warm Weather Shut Down</b> The heating system has been shut off for the summer.
	<b>tN4 Communication</b> Communication is present.
	<b>Warning Signal</b> Indicates an error is present.
	<b>Cooling Group Master</b> Thermostat operates the cooling for a group of thermostats.

### 3. Change the Current Temperature

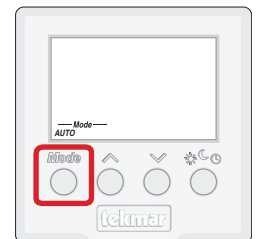
- Press the or the to select the room temperature. The display indicates whether the “HEAT” or the “COOL” temperature is being changed. The “HEAT” and “COOL” settings must be a minimum of 3°F (1.5°C) apart.



- While in Auto Mode:** After the or buttons are used to change the temperature, the Mode button can be pressed to toggle between “HEAT” or “COOL” temperature adjustment.
- Flashing **Away** indicates that the temperature cannot be changed. This is due to a scene having been set. See Section 9 “Scenes” for details. Use a user switch to return to or .
- Flashing **WWSD** (warm weather shut down) indicates that the heating system has been shut off for the summer.

### 4. Change between Heat, Cool or Ventilation

- The Mode button selects between Heat, Auto, Cool, Vent and Off.
- Off Mode allows heating for freeze protection.



Mode	Heat Operation	Cool Operation	Fan Operation
— Mode — <b>HEAT</b>	✓	✗	Maybe*
— Mode — <b>AUTO</b> **	✓	✓	✓
— Mode — <b>COOL</b>	✗	✓	✓
— Mode — <b>VENT</b>	✗	✗	✓
— Mode — <b>OFF</b>	✗	✗	✗

\* Fan turns on for forced air heating. Fan does not turn on for radiant, baseboard, radiator or convection heating.

\*\* There is a 30 minute waiting time to switch between heating to cooling, and between cooling to heating.

## 5. Programmable Schedule

- The 540 can operate on a programmable schedule if a tN4 system schedule is available.
- Program the schedule device with the current time and schedule.
- The 540 automatically changes between the ☀ and ☾ temperature based upon the schedule device's program.
- When operating on a programmable schedule, a ⌚ symbol is shown, as well as a ☀ or a ☾. The ☀ or ☾ indicates the current operating temperature.
- Press the Local Override (☀☾⌚) button to select the ⌚ to operate on a programmable schedule.
- If a ⌚ symbol does not appear, there is no schedule available.

Display	Action
☀	Manual override at occupied temperature.
☾	Manual override at unoccupied temperature.
☀⌚	Programmable schedule at occupied temperature.
☾⌚	Programmable schedule at unoccupied temperature.

## 6. Local Override

- The Local Override (☀☾⌚) button can be used to override any schedule. Press and release the ☀☾⌚ button to toggle between ☀, ☾, and ⌚ (if available).
- The thermostat remains at the selected ☀ or ☾ override temperature until manually changed back to the schedule.



- To change the ☀ temperature, press the ☀☾⌚ button until ☀ is displayed. Then press the ▲ or ▼ button.
- To change the ☾ temperature, press the ☀☾⌚ button until ☾ is displayed. Then press the ▲ or ▼ button.

## 7. °F or °C

- Press and hold down the ▲ and ▼ buttons together.
- Release the buttons once °F or °C is displayed.
- Press the ▲ button for °C, press the ▼ button for °F.
- Wait for display to return to normal operation.

## 8. Outdoor Temperature

- The outdoor temperature is shown on the display when the thermostat is connected to a system that includes an outdoor air sensor.

## 9. Scenes ☀, ☾, Away

- Scenes are system wide manual overrides.
- Scenes are activated by an optional User Switch.
- When using scenes, there are three temperature settings: ☀, ☾, **Away**. The scene takes precedence over any local overrides or any programmable schedules.
- When the User Switch button is pressed all thermostats may change to either the ☀, ☾, or **Away** temperature.
- Away is used for long absences from the building such as a vacation.
- While in the Away scene, the room temperature cannot be changed using the ▲ or ▼ buttons. Use the User Switch to change the scene from **Away** to ☀ or ☾ to change the temperature.

Scene	Display
1	☀ or ☀⌚ or ☾⌚
2	<b>Away</b>
3	☾

## 10. Cooling Group

- This thermostat can operate the cooling for a group of heating thermostats.
- Cool group is indicated by a ☀ icon in the display.
- When set to Cool Mode, or cooling in Auto Mode, all cool group thermostats stop air heating.
- An average temperature reading for all cool group thermostats is shown as the room temperature during cooling operation.

## 11. Ventilation

- Ventilation controls the fan to circulate air.
- Ventilation for each hour is set by the Fan %.
- Press the Mode button to set the Mode to *Vent*.
- To change the ☀ Fan %, press the ☀☾⌚ button until ☀ is displayed, then press the ▲ or ▼ button to set.
- To change the ☾ Fan %, press the ☀☾⌚ button until ☾ is displayed, then press the ▲ or ▼ button to set.
- For maximum circulation set to "On".
- For minimum circulation set to "Auto".

## 12. Backlight

- Press and hold down the ▲ and ▼ buttons together.
- Release the buttons once "lite" is on display.
- Press the ▲ or ▼ button to select Off, 30 second, or On.

## 13. Error Messages ⓘ

- Contact your installer or read the Data Brochure D540 for more information.
- D540 PDF available at [www.tekmarcontrols.com](http://www.tekmarcontrols.com).

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