

**tekmar**<sup>®</sup>

tekmarNet<sup>®</sup>2 Thermostat 527

# User Manual



Zoning

**U527**

12/11

Replaces: 08/10



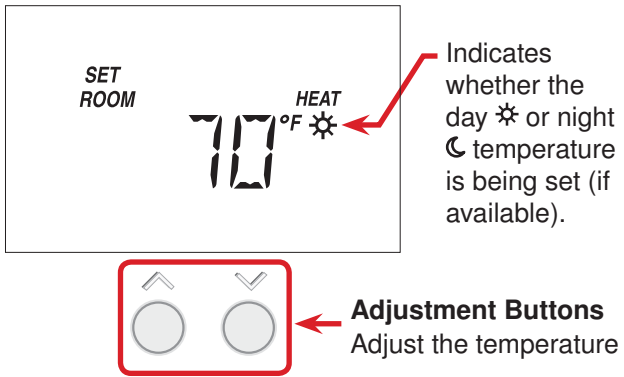
This brochure will provide you with the information you need to benefit the most from your tekmarNet® thermostat. Please visit [www.tekmarcontrols.com](http://www.tekmarcontrols.com) for more detailed information on this or any other tekmar product.

This thermostat provides heating for one zone in your building. It will maintain your air temperature with an on board ROOM sensor.

With the addition of one of tekmar's energy saving accessories, this thermostat can also lower its temperature setting at night or when you are away from the house.

## Temperature Adjustment

This thermostat can operate at day ☀ or night ☾ temperatures (see “Day ☀ or Night ☾ Temperatures” section) for ROOM settings. The temperature can be adjusted as follows:



Step 1:	Press the ^ or v button until the desired temperature is displayed.
Step 2:	Release all buttons and wait for the display to return to normal operation. The adjusted settings will be saved in memory.

You will be adjusting the temperature of the current operating mode. To adjust temperature settings that are not shown on the screen, you must enter into the Adjust Menu as described in the “Adjust Menu” section. There may be other symbols on the screen that affect thermostat operation. Please see the “Display Symbols” section for a description of each symbol.

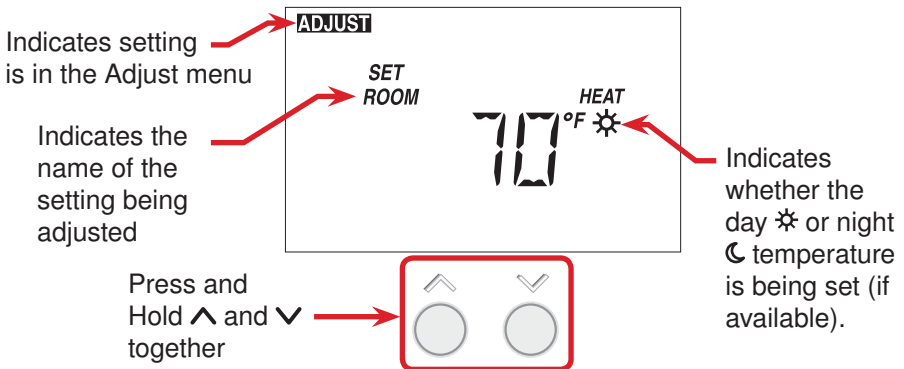
## Adjust Menu

This thermostat has an Adjust Menu that allows adjustment of all of its settings. The following items can be adjusted or viewed:

- Day ☀ and night 🌙 temperatures (if available)
- Backlight on-time
- Temperature units °F or °C
- Thermostat type (view only)

The Adjust Menu can be accessed as follows:

Step 1:	Press and hold the ^ and v buttons until the desired setting is shown (a new screen will appear every 2 seconds).
Step 2:	Press the ^ or v button to adjust the temperature setting.
Step 3:	Press and hold the ^ and v buttons again to advance to the next adjustable setting. Repeat steps 1 and 2 until all adjustments have been made.
Step 4:	Release all buttons and wait for the display to return to normal operation. The adjusted settings will be saved in memory.

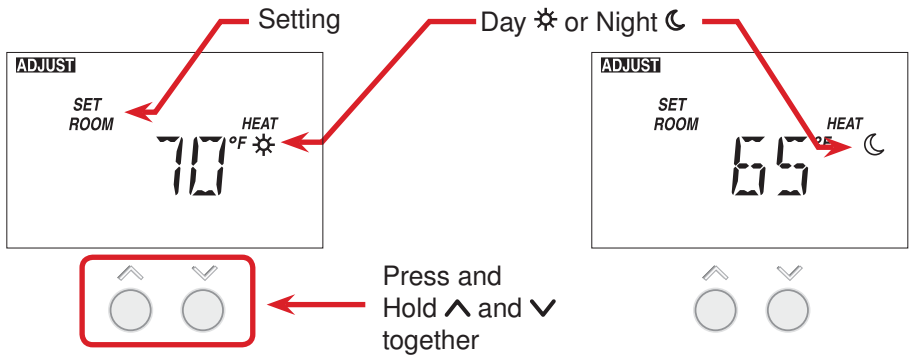


This thermostat has access levels. It will typically be installed and programmed by a heating professional and then locked in a "User" access level. System critical settings will not be available for adjustment. For more information on these settings, please consult your installing contractor or this product's Installation and Operation Manual. The following pages describe the settings available to the "User".

## Day ☀ and Night ☾ Temperatures

This thermostat is capable of running at a lower temperature setting when you are asleep or out of the building. An energy saving accessory can be added to your tekmarNet® system in order to activate these energy saving setback temperatures. If one is connected, day ☀ and night ☾ temperature settings will be available. They are adjusted as follows:

Step 1:	Press and hold the <b>▲</b> and <b>▼</b> buttons to enter the Adjust Menu, and wait until the desired setting is shown with the day ☀ symbol on the screen (a new setting will appear every 2 seconds).
Step 2:	Press the <b>▲</b> or <b>▼</b> button to adjust the temperature setting.
Step 3:	Press and hold the <b>▲</b> and <b>▼</b> buttons until the same setting is shown with the night ☾ symbol on the screen.
Step 4:	Press the <b>▲</b> or <b>▼</b> button to adjust the temperature setting.
Step 5:	Release all buttons and wait for the display to return to normal operation. The adjusted settings will be saved in memory.



## tekmarNet® Energy Saving Accessories



### 479 User Switch

With the touch of a button, tell every thermostat in your house to operate at their night setback ☾ or **Away** temperature.



### 033 Timer

Program a night setback schedule for all of your thermostats with one device.

Examples of these settings are as follows:

Mode of Operation	day ☀	night ☾
ROOM example:	70°F (21°C)	65°F (18°C)

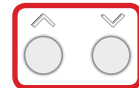
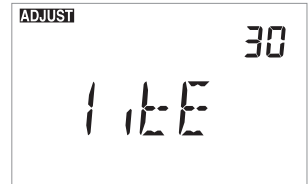
**Note:** The presence of a schedule is indicated by the ⌚ clock symbol.

## Changing the Backlight

This thermostat has an LED backlight that can be configured as follows:

<b>Off</b>	Permanently Off.
<b>30</b>	Temporary on for 30 seconds (when a button is pressed)
<b>On</b>	Permanently On
On + ☀	On during ☀ and off during ☾

Step 1:	Press and hold the <b>^</b> and <b>v</b> buttons to enter the Adjust Menu, and wait until this screen appears (a new screen will appear every 2 seconds).
Step 2:	Press the <b>^</b> or <b>v</b> button to adjust the backlight operation.
Step 3:	Release all buttons and wait for the display to return to normal operation. The adjusted setting will be saved in memory.

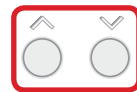
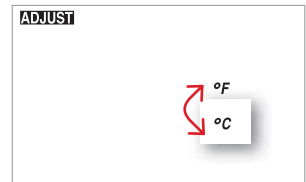


Press and Hold **^** and **v** together.

## Changing the Units (°F or °C)

This thermostat can display temperatures in °F or °C.

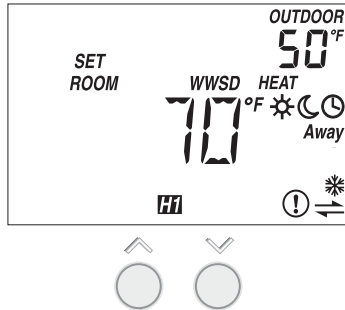
Step 1:	Press and hold the <b>^</b> and <b>v</b> buttons to enter the Adjust Menu, and wait until this screen appears (a new screen will appear every 2 seconds).
Step 2:	Press the <b>^</b> or <b>v</b> button to adjust the units.
Step 3:	Release all buttons and wait for the display to return to normal operation. The adjusted setting will be saved in memory.



Press and Hold **^** and **v** together.




## Display Symbols

In addition to the features described in this manual, there may be others operating in the background. Among others, this thermostat will display symbols on its screen in order to indicate what mode it is in, what temperature it is operating at, or what equipment it is trying to turn on. This section describes each of those symbols.





## Schedule Symbols

These symbols appear when a Schedule Master or User Switch is connected to the system. Those devices will tell this thermostat what temperature setting to operate at (day ☀, night 🌙, or **Away**). Refer to the “Day ☀ and Night 🌙 Temperatures” section for more information.

	A Schedule Master is present in the system and this thermostat is following that Master's programmable schedule.
	Operating at the Day temperature. If there is no Schedule Master or User Switch in the system, the thermostat will always be in this mode.
	Operating at the Night temperature. A setback enabling accessory or Schedule Master thermostat has enabled setback.
<b>Away</b>	Operating at the Away temperature. If flashing, the temperature cannot be adjusted by pressing the up or down arrows. Consult the Installation and Operation Manual for this product for more information on this feature.
<b>WWSD</b>	If flashing, the system is in Warm Weather Shut Down. The outdoor temperature is above the WWSD setting. No heating will take place while in WWSD.

## Equipment Operating Symbols

These symbols indicate the current status of the system.

	Heating is turned on.
	The thermostat is part of an Air Group (a group of heating zones within a commonly ducted air-conditioning system) and the air-conditioning within that group is on. This thermostat will be locked out of heating when this symbol is displayed, which will save energy.

## Communication Symbols

These symbols appear when this thermostat is part of a network and/or when there is something wrong in the system.

	The thermostat is part of a network and is communicating with other devices in the network.
	There is something wrong with the thermostat or the tekmarNet® system. This usually occurs if a control component has failed or is set up incorrectly. Contact your installing contractor for more information or consult the Installation and Operation Manual for this product.

## Frequently Asked Questions

Symptom	Look for...	Corrective Action
No heat or not enough heat and pressing  button does not increase temperature	H1 Symbol	H1 symbol indicates heat is on. If the H1 symbol is displayed and you still have no heat, you may have an issue with your heating appliance. Consult your heating professional.
	Flashing WWSD	Increase WWSD setting on tekmarNet® reset control.
	Flashing Away	Press a user switch button other than Away (typically  or ) or go to your Scenes page on you gateway and change the scene to Occ or Unocc
	Flashing MAX	The thermostat has a maximum air temperature set that is preventing the heating system from providing a higher temperature. Call your installer or refer to the Installation and Operation Manual for information on how to adjust maximum room temperature settings.
Heat on before scheduled time		Optimum start “learns” the heat up and cool off rate of the room and starts the heating or cooling early so that the room is comfortable at the scheduled time.
Pressing  button does not decrease temperature	Flashing MIN	There may be a minimum room temperature set. Consult your heating professional.

## More Information

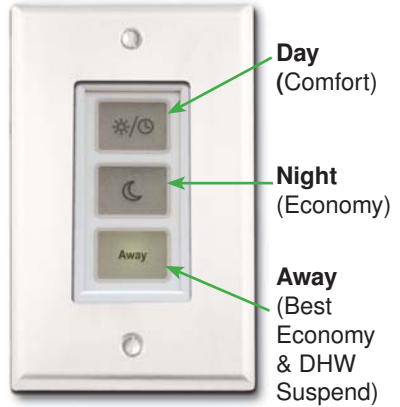
This User Brochure contains standard information on how to make adjustments to an installed product. More detailed information can be found in this product’s Installation and Operation Manual (D527) at [www.tekmarcontrols.com](http://www.tekmarcontrols.com)

# Save Even More Energy - *the Easy Way*

## Great Accessories for Your tekmarNet® System

### User Switch 479

With the touch of one button, every part of your home can switch between Day, Night & Away temperature settings. While Away on vacation, domestic water heating can be suspended to save even more.



### Timer 033

Let the system automatically switch between Day, Night & Away temperatures to match your schedule. The Timer 033 can manage setback for all of the thermostats in your system from a central location.

Ask your installer about adding a tekmarNet® User Switch or Timer to add more energy saving convenience to your system.



tekmar Control Systems Ltd., Canada  
tekmar Control Systems, Inc., U.S.A.  
Head Office: 5100 Silver Star Road  
Vernon, B.C. Canada V1B 3K4  
(250) 545-7749 Fax: (250) 545-0650  
Web Site: [www.tekmarcontrols.com](http://www.tekmarcontrols.com)

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