

INSTALLATION AND USER MANUAL

# EvenAir® TSRC

## WIRELESS THERMOSTAT CONTROLS WHOLE HOUSE FAN or ECONOMIZER



The EvenAir wireless, remote control thermostat controls whole house fan or economizer operation for free cooling. The TSRC can be wall mounted using the subbase supplied or on a table top using the table top adapter provided. The TSRC can turn Econo Cooling On or Off and set the temperature for cooling. The TSRC requires the ER1, Electronic Receiver Module, to be installed in the wiring hub.

**COMPONENTS:**

- |  |  |
|--|--|
| TSRC Wireless Remote Control                     | AMJ Type Dampers (sold separately)               |
| T32 or T32WF Thermostat (sold separately)        | 1 TS51 or 2 TS52 Wired Sensors (sold separately) |
| H32 Wiring Hub (sold separately)                 | For Wireless Temperature Sensors                 |
| ER1 Electronic Receiver Module (sold separately) | 1 or 2 TSER Wireless Sensors (sold separately)   |

READ THESE INSTRUCTIONS CAREFULLY AND COMPLETELY BEFORE PROCEEDING WITH THE INSTALLATION.

This device MUST be installed by a qualified agency in accordance with the manufacturer’s installation instructions. The definition of a qualified agency is: any individual, firm, corporation or company which either in person or through a representative is engaged in, and is responsible for, the installation and operation of HVAC appliances, who is experienced in such work, familiar with all the precautions required, and has complied with all the requirements of the authority having jurisdiction.

Please retain these instructions after installation.

Installed By: \_\_\_\_\_ Phone: \_\_\_\_\_ Installation Date: \_\_\_\_\_



Thank you for purchasing the EvenAir System from Field Controls. The EvenAir products are compatible with any HVAC system having accessible 24VAC terminals.

## FEATURES

### OPERATING MODES

Turns ECool On or Off.

### TEMPERATURE CONTROL

ECool Temperature can be adjusted.

### SLEEPING AREA TEMPERATURE SENSOR

The TSRC is factory set to address #2 and can be used as a second sleeping area temperature sensor when used with the TSER temperature sensor.

### POWER

Operates on two AA batteries.

### WIRING

No wiring is required.

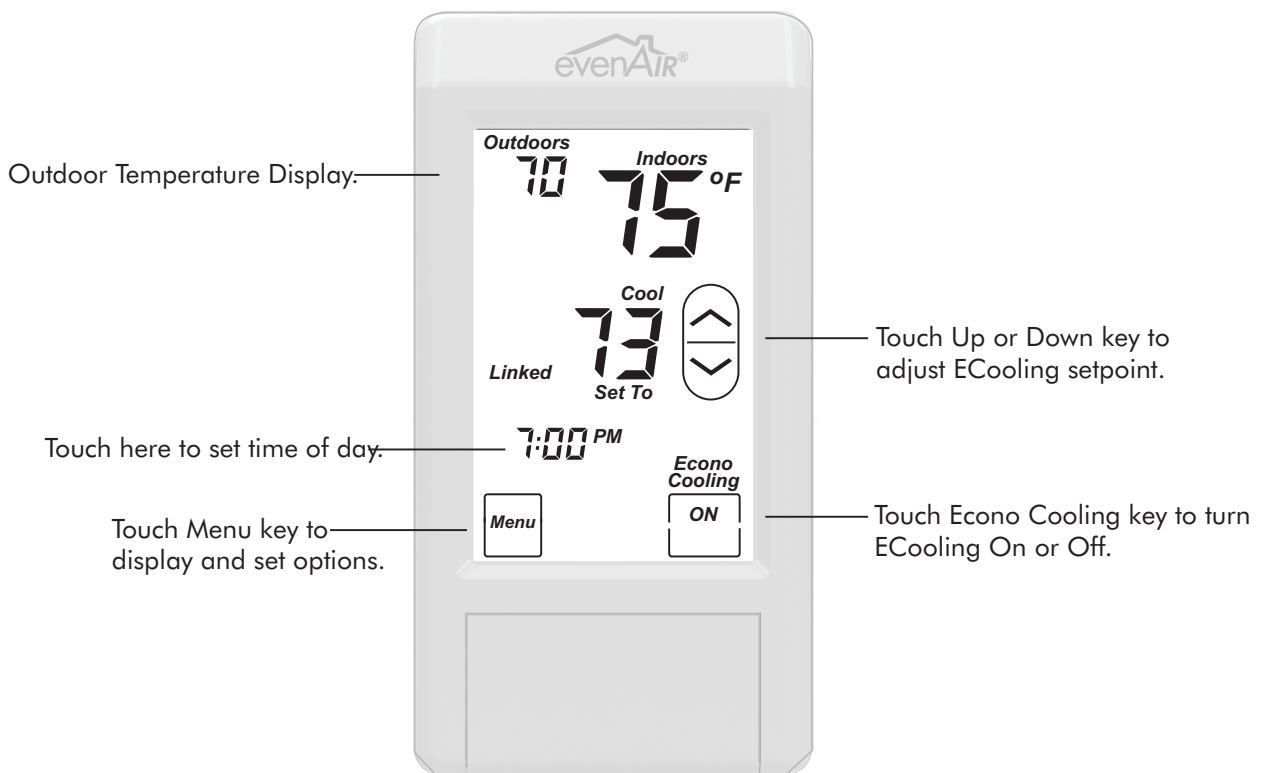
### Installation

Can be installed on any interior wall using the subbase provided or set on a table top using the table top adapter provided.

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## WIRELESS THERMOSTAT OVERVIEW

**i** Press the touchscreen with your fingertip only, using a firm touch. Do not use a sharp object such as a pen or pencil. The touchscreen is a resistive touch and responds differently than touch screens found in smart phones/devices.



# HOMEOWNER SECTION

## HOMEOWNER

This manual is separated into two different sections: one for the Homeowner and one for the System Installer. The Homeowner section contains information on features and operation of the thermostat along with optional user settings available to the homeowner.

## THERMOSTAT OPERATION AND USER SETTINGS

- Features
  - 1** Set Time and Day
  - 2** Turn ECool On or Off
  - 3** Change ECool Setpoint Temperature.
- EvenAir Remote Control
- User Options
  - 1** Calibrate indoor temperature.
  - 2** Clean the touch screen
  - 3** Change the Home Number
- Changing Batteries

## FEATURES

### AUTOMATICALLY UPDATES COOLING SETPOINT

When the system is in Cool or ECool and the setpoint temperature is adjusted on the TSRC remote control, the new setpoint is automatically updated on the EvenAir thermostat. Similarly, when the setpoint temperature is adjusted on the EvenAir thermostat, the setpoint is automatically updated on the TSRC remote control.

### CONTROL WHOLE HOUSE FAN OR ECONOMIZER USING 1-12 HOUR BUILT-IN TIMER

If control of a whole house fan or economizer was set to Timer Control during installation, turning ECool ON starts the timer in the thermostat and operates the whole house fan or economizer for the time set by the user in the thermostat (see Homeowner section in T32 or T32WF Thermostat Manual)

### CONTROL WHOLE HOUSE FAN OR ECONOMIZER USING TEMPERATURE CONTROL

If control of a whole house fan or economizer was set to Temperature Control during installation, the whole house fan or economizer will be activated if ECool is ON, the space temperature is above the setpoint temperature, and the outdoor air temperature is cool enough to provide cooling. The whole house fan or economizer will automatically turn off to save energy if the room temperature drops below the setpoint temperature.

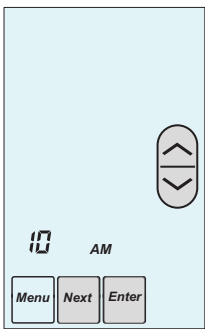
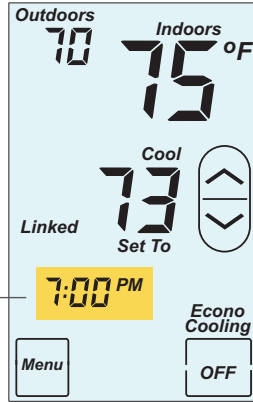
- ❗ If your whole house fan or economizer installation requires windows to be opened during operation, be sure the windows are open before selecting the ECool mode on the TSRC remote control or thermostat.

# HOMEOWNER SECTION

## THERMOSTAT OPERATION

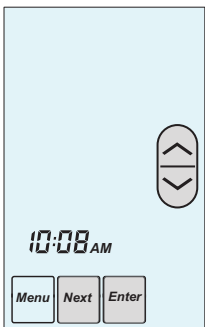
### 1 Set Time

Touch here to change the time.



Touch the UP or DOWN key to set the hour and AM or PM.

Touch NEXT.



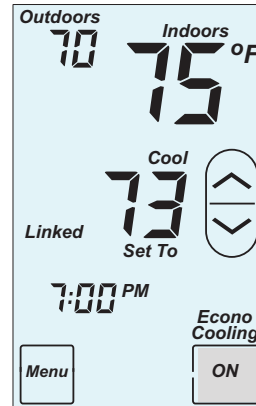
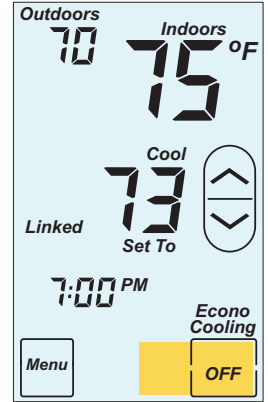
Touch the UP or DOWN key to set the minute.

Touch ENTER to save the time and return to normal operation.

### 2 Turn ECool On or Off

Touch the ECONO COOLING key or the area to the left of the key to turn ECool ON or OFF. Turning ECool OFF, turns the HVAC system to OFF.

Econo Cooling (ECooling) is controlled by either temperature or a 1 to 12 hour timer in the EvenAir thermostat and is set up by your installer during installation.



Solid ON indicates ECool mode is ON.

Blinking ON indicates an active ECooling call.

#### CONTROL BY TIMER

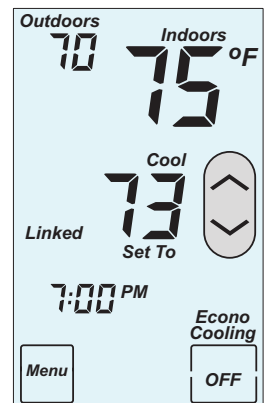
ECooling will start when ECool is turned ON and will remain on until the timer expires or when ECool is turned OFF, which turns the HVAC system OFF.

#### CONTROL BY TEMPERATURE

ECooling will start when ECool is ON, the space temperature is above the setpoint temperature, and the outdoor air temperature is cool enough to provide cooling. ECool will automatically turn off if the room temperature drops below the setpoint temperature.

### 3 Change ECool Setpoint Temperature

Touch the UP or DOWN key to change the ECooling Setpoint.



When the system is in Cool or ECool and the setpoint temperature is adjusted on the TSRC remote control, the new setpoint is automatically updated on the EvenAir thermostat. Similarly, when the setpoint temperature is adjusted on the EvenAir thermostat, the setpoint is automatically updated on the TSRC remote control.

# HOMEOWNER SECTION

## MENU OPTIONS

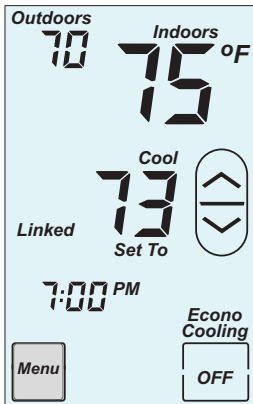
The MENU key is used by the homeowner or installer to access the following options:

Option	Description	Used By	Range	Default	As Installed
01	Calibrating the Indoor Temperature Sensor	Installer/User	+/-5	NA	NA
02	Clean the Touch Screen	Installer/User	OFF or 10 seconds	OFF	NA
03	Change the Home Number	Installer/User	1 to 8	1	

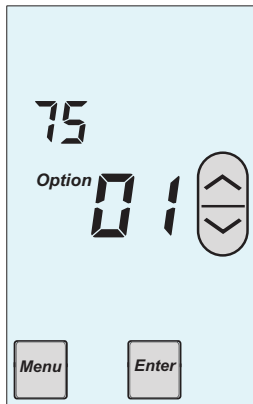
**!** The Home Number only needs to be changed if two installations are within 300 feet of one another. The Home Number selected in the remote control must be the same as the Home Number selected in the EvenAir T32 Thermostat.

### 01 Calibrate Indoor Temperature

The indoor temperature is factory set to +/- 1F. If you feel the thermostat temperature is too high or too low, use this option to change the temperature (calibrate).



Touch the MENU key to display Option 01.

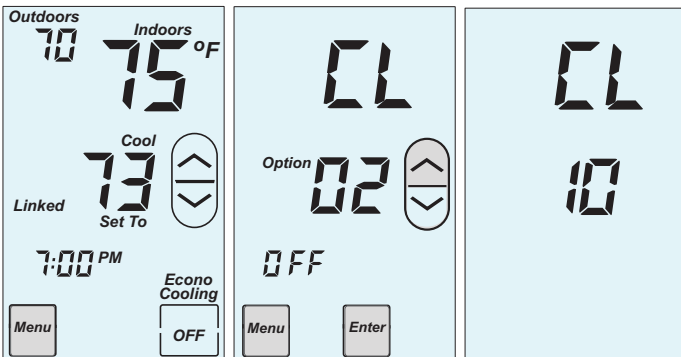


Touch the UP or DOWN key to change the temperature.

Touch ENTER to save the new temperature or touch the MENU key to go to the next option.

### 02 Clean the Touch Screen

This option disables the touch screen for 10 seconds to enable the user to clean the touch screen by wiping down with a soft, damp cloth.



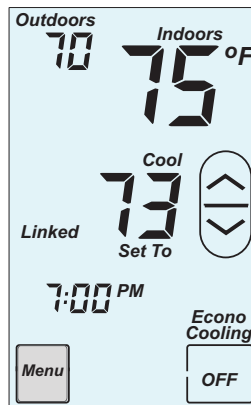
Touch the MENU key until Option 02 is displayed, indicated by CL. To exit this option, press ENTER.

Press the UP key then press ENTER to turn ON the touch screen cleaning cycle

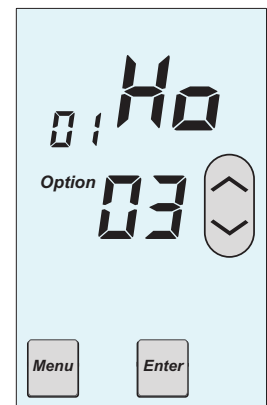
The touch screen is disabled for 10 seconds.

### 03 Change the Home Number

The Home Number is used by the ER1 receiving module when communicating with wireless devices. The Home Number only needs to be changed if two installations are within 300 feet of one another.



Touch the MENU key until Option 03 is displayed.

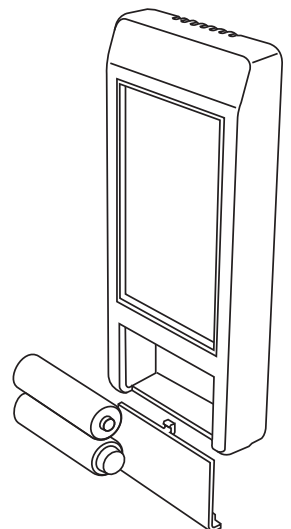


Touch the UP or DOWN key to set a new Home Number, then press ENTER.

**!** The Home Number only needs to be changed if two installations are within 300 feet of one another. The Home Number selected in the remote control must be the same as the Home Number selected in the EvenAir T32 Thermostat.

### Change Batteries

Install 2 AA batteries.



# INSTALLER SECTION

This manual is separated into two different sections: one for the Homeowner and one for the System Installer.

The Installer section contains setup and installation information of the remote control with optional user settings available for the homeowner.

## INSTALLATION

- ❗ Homes with plaster walls with steel lath may experience wireless communication interference when using wireless remote controls.

### ⚠ CAUTIONS

- Read and follow all instructions carefully.
- Read entire manual before installing EvenAir products.
- Use cautions when mounting components to surfaces that may have concealed wiring beneath the surface.

### ❗ ATTENTION INSTALLER

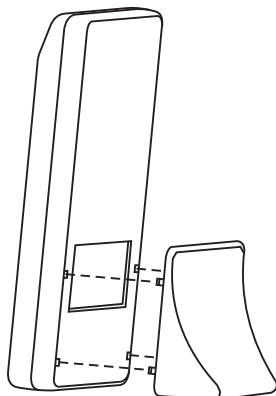
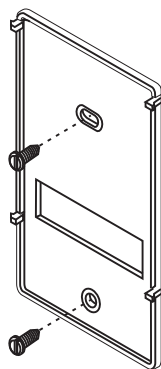
- 1) Install and wire components to the wiring hub. (See H32 Wiring Hub manual for wiring detail)
- 2) Install the ER1 electronic receiver module in the wiring hub. The remote control is factory set to sensor #2. Set the home number as necessary. (see H32 Wiring Hub manual).
- 3) After testing wiring hub and components installation, place the remote control on the subbase or attach table top adapter.
- 4) Install batteries in remote control and set time (see Installing Batteries and Set Time section).
- 5) Linked should be displayed. Verify the wireless communication by observing that the outdoor temperature is displayed correctly.

## INSTALL TSRC REMOTE CONTROL

The TSRC can be installed on an interior wall using the subbase provided or can be set on a table top using the table top adapter provided.

### WALL MOUNTING

Attach the subbase to a wall using the screws and anchors provided. The TSRC snaps onto the subbase. No wiring is required.

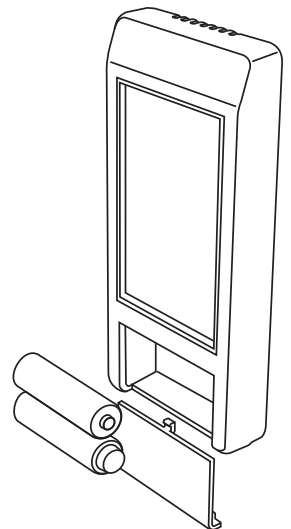


### TABLE TOP USE

Snap the tabletop adapter onto the TSRC and place on table top.

## INSTALL BATTERIES

Install 2 AA batteries.



# MAINTENANCE AND TROUBLESHOOTING

## REMOTE CONTROL OPERATION

Problem - Snr 02 is displayed on thermostat.

Replace the batteries.

Be sure the TSRC is set to the same Home number as the T32 thermostat.

**WARNING!** When using a whole house fan or economizer requiring windows be opened, be sure the windows are open before selecting ECool mode.

## COMFORT CONCERNS

Problem - The room temperature on the remote control seems too high or too low.

The remote control is factory calibrated within 1 degree.

However, if a homeowner finds the temperature "feels" too high or too low, the remote control can be calibrated to what the homeowner feels is the correct temperature using the Menu key to select the Calibration Option.

## SPARE PARTS AND ACCESSORY LIST

Field Controls Part Number	Model Number	Description
580011106	T32	Programmable, communicating thermostat w/ airflow control, for all equipment.
580011107	T32WF	Programmable, communicating thermostat w/ airflow control for all equipment. WiFi enabled.
580011201	H32	Wiring Hub for gas/electric, conventional or dual fuel heat pump equipment with 3 Heat/2 Cool
580011301	TS51	Wired temperature sensor for the sleep area. Single sensor installation.
580011302	TS52	Wired temperature sensor for the sleep area. Dual sensor installation.
580011305	TSER	Wireless temperature sensor for the sleep area. Single or Dual sensor installation. Requires ER1.
580011205	ER1	Electronic receiver module. Required when using wireless sensors.
580011306	TS3	Outdoor temperature sensor. Required for dual fuel heat pumps.
580011410	TSRC	Wireless remote control/temperature sensor. Requires ER1.
580011402	AMJ	Replacement modulating actuator control, plug and play connectors.
580011510	PNP25	Replacement 25 ft. RJ cable.
580011525	PNP25C	Additional 25 ft. RJ cable and connector.
580011405	IS	Replacement idler shaft for AMT and AMJ actuators.
580011406	DS	Replacement drive shaft for AMT and AMJ actuators.
	MDP-#	EvenAir Round Balance Damper, Plug and Play. Sizes - 4" - 20" diameter.
	MDP-LxH	EvenAir Rectangular Balance Damper, Plug and Play. Sizes - 8", 10" and 12" Heights, up to 24" Length.
510900300	370R	Relay, 24VAC Control, 250VAC Line, SPDT 90-370

**This manual may be downloaded and printed from the Field Controls website ([www.fieldcontrols.com](http://www.fieldcontrols.com))**

## **WARRANTY**

**For warranty information about this or any Field Controls product, visit:  
[www.fieldcontrols.com](http://www.fieldcontrols.com)**

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