**Installer**: Save these instructions for future use!

**DESCRIPTION**

The EWT-3900 7Day/5-2 Day Wireless Programmable Digital Solid State Thermostat uses a microcomputer to provide precise building temperature and fan control. This wireless thermostat allows additional flexibility to zoned heating and cooling systems where hard wired installations are prohibited or difficult to do.

**IMPORTANT!**
The Model EWT-3900 Wireless Thermostat is already linked to the Receiver at the factory and set to Sleep Mode (PE) for shipping! When you are ready to use the thermostat, press and hold the and buttons for five seconds to exit Sleep Mode.

**Features:**
- The Thermostat is powered by a rechargeable lithium-ion battery.
- The receiver module is powered with 24vac from a Zone Control Panel or the HVAC system’s 24vac transformer.
- The receiver module terminal block has the following terminals: R, C, W1/E, W2, Y1, Y2, G, O, B and one NC (no connection) terminal.
- Compatible Equipment: ULTRA-ZONE Control Panels: NCM-300, BMPlus3000 & UZC-4. Single or two stage heating and cooling equipment Gas, Electric, Oil or Hydronic. One or two stage compressor heat pump with electric backup.
- Simultaneous heat and cool program storage.
- Program storage is retained in case of power loss.
- LCD continuously displays time and room temperature. Temperature set point is displayed when it is being changed.
- Temperature display can be configured in °F or °C.
- The Thermostat can be programmed between 45°F and 95°F.
- Backlit display.
- Air Filter Replacement Monitor.

**Electrical Ratings**
- 19 - 30VAC 50/60 Hz
- 1.0 Amp (Max load per terminal)
- 2000 mAh rechargeable LI battery

**Thermal Ratings**
- Set point Temperature Range 45°F - 95°F
- Operating Ambient Temperature Range 30°F - 99°F
- Storage Temperature Range 14°F - 140°F
- Operating Humidity Range 0 - 90% RH (Non Condensing)

**Contents:**
- 1 EWT 3900 Thermostat
- 1 Lithium-Ion battery 2000 mAh
- 1 EWT 3900 Receiver
- 1 USB Adapter Cable
- 1 Wall Outlet Charger
- 1 Tabletop Base
- 1 Wall Mounting Plate
- 6 Plastic Wall Anchors
- 6 #8 x 1” Screws
- 1 TB-236 Technical Bulletin

**Charging Requirements:**
- 120VAC Wall Outlet or
- PC Computer with USB Port
- USB Convenience Outlet

**ATTENTION**
This product does not contain mercury. However, this product may replace a unit which contains mercury. EWC Controls Inc. advises all technicians and consumers that mercury thermostats should be properly disposed of. Check with your local authority.
**Warning!** The installer should be an experienced and trained HVAC contractor. Failure to read and follow instructions carefully before installation or operation could damage this control or cause property damage. Test the finished installation for proper operation.

**Warning!** There is no need to link the thermostat to the receiver! The 3900 Thermostat has already been linked (synchronized) to the Receiver at the factory. If the Thermostat loses synchronization with the Receiver, please follow the instructions on page 8 of this document.

---

**CAUTION**
To prevent electrical shock and/or equipment damage, disconnect electric power to HVAC system at the main circuit breaker box until the installation is complete.

---

Mount the EWT-3900 Thermostat about 5 feet above the floor in an area with good air circulation and average temperature. DO NOT install the thermostat where it can be affected by:

- drafts or dead spots behind doors and in corners
- hot or cold air from ducts
- radiant heat from sun or appliances
- concealed pipes and chimneys
- on surfaces such as an outside wall, that are a different temperature than the room air temperature.

**Mounting the Thermostat**

**ATTACH THE MOUNTING BRACKET TO THE WALL**
1. Place the bracket on the wall where you would like the thermostat to be and mark the two holes with a pencil.
2. Using a 3/16” drill bit, drill out the marks you just made on the wall.
3. Insert the wall anchors into the holes pressing flush with the wall.
4. Place the bracket over the holes and fasten with the supplied #8 screws.

**Mounting the Receiver**
Mount the receiver with the supplied mounting screws near the zone control panel or HVAC equipment to be controlled. **Do not mount the receiver inside the equipment cabinet or any other metal enclosure. Do not mount the receiver in any location that is subject to freezing and/or condensation.**

---

**Technical Data**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Power</strong></td>
<td>AC24V, 50/60Hz</td>
</tr>
<tr>
<td><strong>Working Environment</strong></td>
<td>30°F–99°F</td>
</tr>
<tr>
<td><strong>Range</strong></td>
<td>0–90%RH(non-condensing)</td>
</tr>
<tr>
<td><strong>Shell</strong></td>
<td>Fire Retardant PC ABS</td>
</tr>
<tr>
<td><strong>Dimension</strong></td>
<td>4.55x3.85x1.78 in (HxWxD)</td>
</tr>
<tr>
<td><strong>Connection Interface</strong></td>
<td>Each terminal is capable of accepting 2 x 18 AWG solid copper wires.</td>
</tr>
<tr>
<td><strong>Wireless Frequency</strong></td>
<td>433MHz</td>
</tr>
<tr>
<td><strong>Communication baud rate</strong></td>
<td>10 kbps</td>
</tr>
<tr>
<td><strong>Wireless Channels</strong></td>
<td>1–6 Channels</td>
</tr>
<tr>
<td><strong>Communication Distance</strong></td>
<td>Beeline distance 300ft in the field. (The distance will shorten through walls and floors)</td>
</tr>
</tbody>
</table>

---

**WARNING**
Do not use circuits exceeding specified voltage. Higher voltage will damage control and could cause shock or fire hazard.
Do not short out terminals on gas valve or primary control to test. Shorted or incorrect wiring will damage thermostat and could cause personal injury and/or property damage.
Thermostat installation and all components of the system shall conform to Class 2 circuits per the NEC code.
**WIRING THE RECEIVER TO THE EQUIPMENT**

### THERMOSTAT TERMINALS (HEAT PUMP)

<table>
<thead>
<tr>
<th>SYSTEM</th>
<th>Heat Pump 1</th>
<th>Heat Pump 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>C</td>
<td>24 Volt (Common)</td>
<td></td>
</tr>
<tr>
<td>R</td>
<td>24 Volt (hot)</td>
<td></td>
</tr>
<tr>
<td>E/W1</td>
<td>Emergency</td>
<td>Emergency</td>
</tr>
<tr>
<td>W2</td>
<td>Auxiliary 2nd Stage</td>
<td>Auxiliary 3rd Stage</td>
</tr>
<tr>
<td>Y1</td>
<td>Heat and Cool mode 1st stage (compressor)</td>
<td></td>
</tr>
<tr>
<td>Y2</td>
<td>No output</td>
<td>2nd Stage Compressor</td>
</tr>
<tr>
<td>G</td>
<td>Blower/Fan Energized on call for Heat and Cool</td>
<td></td>
</tr>
<tr>
<td>O/B</td>
<td>Energized in Cool Mode</td>
<td>Energized in Heat Mode</td>
</tr>
</tbody>
</table>

### THERMOSTAT TERMINALS (CONVENTIONAL)

<table>
<thead>
<tr>
<th>SYSTEM</th>
<th>Single Stage</th>
<th>Multistage</th>
</tr>
</thead>
<tbody>
<tr>
<td>C</td>
<td>24 Volt (Common)</td>
<td></td>
</tr>
<tr>
<td>R</td>
<td>24 Volt (hot)</td>
<td></td>
</tr>
<tr>
<td>E/W1</td>
<td>Heat Mode 1st stage</td>
<td>Heat Mode 2nd stage</td>
</tr>
<tr>
<td>W2</td>
<td>No Output</td>
<td>Heat Mode 2nd stage</td>
</tr>
<tr>
<td>Y1</td>
<td>Cool mode 1st stage (compressor)</td>
<td>No output</td>
</tr>
<tr>
<td>Y2</td>
<td>No output</td>
<td>2nd Stage Compressor</td>
</tr>
<tr>
<td>G</td>
<td>Blower/Fan Energized on call for Cool (and Heat if HE was selected)</td>
<td></td>
</tr>
<tr>
<td>O</td>
<td>No Output</td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>No Output</td>
<td></td>
</tr>
</tbody>
</table>

---

**Warning:** There should be at least 1 hardwired system thermostat in the home or building to ensure the ability to control the HVAC equipment in the event of a drained battery or loss of communication.

---

**EWC Controls Inc.** • 385 Highway 33 • Englishtown, NJ 07726 • 800-446-3110 • FAX 732-446-5362 • E-Mail: info@ewccontrols.com

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The configuration menu allows you to set the thermostat operating characteristics to your system requirements. Set SYSTEM mode to OFF, then press and hold the \textcolor{red}{	extit{Prog}} key for five seconds to enter the configuration menu. The display will show the first item in the configuration menu. The configuration menu table shows the configuration options and an explanation of each option. Press the \textcolor{red}{	extit{Prog}} key to step to the next menu item. To exit the menu and return to program operation, press \textcolor{red}{	extit{HOLD}} key. If no keys are pressed within fifteen seconds, the thermostat will revert back to program operation.

\textcolor{red}{	extbf{ATTENTION}}

If you have any questions regarding the steps in the configuration menu please call our Technical Support Hotline at 1-800-446-3110.

<table>
<thead>
<tr>
<th>Installer Configuration Menu</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Step</strong></td>
</tr>
<tr>
<td>1</td>
</tr>
<tr>
<td>2</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>4</td>
</tr>
<tr>
<td>5</td>
</tr>
<tr>
<td>6</td>
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<tr>
<td>7</td>
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</tr>
<tr>
<td>20</td>
</tr>
<tr>
<td>21</td>
</tr>
<tr>
<td>22</td>
</tr>
</tbody>
</table>

**Configuration Menu Steps**

**Step 1)** Selects whether or not you want to energize the Fan output on a call for heat.

**Step 2)** Selects the System type. SS1 - Single Stage Conventional, SS2 - Multi-Stage Conventional, HP1 - Single Stage Heat Pump, HP2 - 2 Stage Heat Pump

**Step 3)** Selects whether or not you want to energize the Fan output on a call for heat.

**Step 4)** Enables the recovery feature. This feature turns on the HVAC equipment several minutes prior to the programmed start time to reach the set temperature at the intended time.

**Step 5)** Enables the recovery feature. This feature turns on the HVAC equipment several minutes prior to the programmed start time to reach the set temperature at the intended time.

**Step 6)** Enables the recovery feature. This feature turns on the HVAC equipment several minutes prior to the programmed start time to reach the set temperature at the intended time.

**Step 7)** Enables the recovery feature. This feature turns on the HVAC equipment several minutes prior to the programmed start time to reach the set temperature at the intended time.

**Step 8)** Enables the recovery feature. This feature turns on the HVAC equipment several minutes prior to the programmed start time to reach the set temperature at the intended time.

**Step 9)** Enables the recovery feature. This feature turns on the HVAC equipment several minutes prior to the programmed start time to reach the set temperature at the intended time.
PROGRAMMING
CONFIGURATION

Step 10) Selects clock format, Either 24 hours (24) or 12 hours (12).
Step 11) Selects the Compressor Protection On or Off. If set to on
the thermostat will wait 4 minutes in between heating and cooling
calls. This is intended to protect your compressor from short
cooling. Select Off when connected to a zone system.
Step 12) Selects between Comfort and Economy mode. When set
to Comfort (CO) all stages will remain energized until the setpoint
is reached. When set to Economy (EC) each stage will turn off
individually as the temperature increases in the heat setting or
decreases in the cool setting.
Step 13) Selects whether or not the thermostat will be configured
for Programmable or Non-Programmable. To set the thermostat up
for Programmable select (1). To set the thermostat up for Non-
Programmable select (0).
Step 14) Selects the channel the thermostat and receiver are
communicating on. This should only need to be changed if you are
using 100 thermostats or more in one building. Once the channel is
changed you will need to re-match the thermostat to the receiver.
Step 15) This function is used when matching the thermostat with
the transmitter. Select (1) to match. See page 21 For more details
on matching.
Step 16) This parameter selects the function of the lock feature of
the thermostat. Select (1) to allow temperature change only when
the lock is enabled. Select (0) to lock all of the thermostat functions.
Step 17) This function activates the economy feature (step 17 and
step 18). When (ON) is selected, the programmed economy
temperatures will be active when the center round button is
pressed. To return to a normal set point press the center round
button again. When (Off) is selected
Step 18) While in the heating mode and the center button is
pressed, the room temperature will change to the program
economy temperature. Press center button again to return to
normal operation. This setting is adjustable between 41-93F.
Step 19) While in the cooling mode and the center button is
pressed, the room temperature will change to the program
economy temperature. Press center button again to return to
normal operation. This setting is adjustable between 43-95°F.
Step 20) This function is used to select a compressor lock out
temperature. This function is not applicable with this model
thermostat.
Step 21) This function is used to test the thermostat after the initial
installation. Select (1) to turn on stage 1; Select (2) to turn on stage
2. Caution - Do not use this when connected to a zone system.
Step 22) This function restores all of the settings to the factory
default. Select (1) to restore factory defaults. Restoring factory
settings will require the thermostat and receiver to be re-matched.
Caution - Do not use this when connected to a zone system.

Temperature Range
This thermostat can be programmed between 45°F and 95°F
(7°C and 35°C). However, it will display room temperatures from
30°F to 99°F (0°C and 37°C). “HI” will be displayed if the
temperature is higher than 99°F (37°C), and “LO” will display if the
temperature is lower than 30°F (0°C). This thermostat will
automatically cutoff in Heat if the temperature rises above 95°F
(35°C), and automatically cutoff in Cool mode if the temperature
drops below 45°F (7°C).

Time Delay
The thermostat will provide a 4 minute delay after shutting
down the heating or cooling system before it can be restarted if
[ON] is selected at step 10 of the configuration menu. This delay
applies equally to heating or cooling systems. This feature should
not be used in conjunction with a ULTRA-ZONE Zone Panel.

Thermostat Programming
You can program your thermostat prior to installation by
following these instructions and starting at the configuration
menu. This can be done while you relax in your favorite chair
and is a very good way to familiarize yourself with all the
functions of your thermostat.

The EWT-3900 has the following Time and Temperature Energy
Saving settings pre-programmed into the thermostat.

<table>
<thead>
<tr>
<th>Program Number</th>
<th>Time</th>
<th>Heat</th>
<th>Cool</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>6:00 am</td>
<td>68°F (20°C)</td>
<td>78°F (26°C)</td>
</tr>
<tr>
<td>2</td>
<td>8:00 am</td>
<td>60°F (16°C)</td>
<td>85°F (29°C)</td>
</tr>
<tr>
<td>3</td>
<td>4:00 pm</td>
<td>68°F (20°C)</td>
<td>78°F (26°C)</td>
</tr>
<tr>
<td>4</td>
<td>10:00 pm</td>
<td>60°F (16°C)</td>
<td>82°F (28°C)</td>
</tr>
</tbody>
</table>

Setting The Current Time and Day of the Week
1) Press [DAY TIME] key. The hour will start flashing. Press the
   or keys to set the correct hour and AM/PM designation.
2) Press [DAY TIME] key again and the minute will start flashing. Press
   the or keys to set the correct minutes.
3) Press [DAY TIME] key again and the current day of the week will start
to flash. Press or keys to set the current day of
the week.
After 30 seconds the thermostat will return to the current program.
**PROGRAMMING CONFIGURATION**

**Programming Temperature Settings**

The EWT-3900 Thermostat can be programmed for weekdays and weekends [5/2] or have a unique program for each of the 7 days of the week. Each day can have a maximum of 4 time and temperature settings for heating and cooling. With the “Auto Recovery” feature enabled, the thermostat will advance the program based on temperature difference [ΔT] of the current temperature and the next desired set point.

The program time can be set in 10-minute increments, and remains the same for both heat and cool programs. The program temperature can be set in increments of 1°F (1°C).

The Heat set point can not be set higher than the Cool set point, and the Cool set point can not be set lower than the Heat set point.

1) Put Thermostat into RUN MODE in either heat or cool.
2) Select program mode, either 5-2 day or 7 individual days by pressing key until desired program is selected.
3) Press key and in the program window will appear the hour flashing. Use the or keys to set the hour. Note AM or PM.
4) Press key again to change to the minute position. Use or keys to change the minute.
5) Press key again to set to the program COOL set temperature. Use the or keys to set to your desired temperature setting.
6) Press key again to set to the program HEAT set temperature. Use the or keys to set to your desired temperature setting.
7) Press key to move to program 2, 3 and 4 and follow the same steps.

If you have more than one EWT-3900 installed on your system, be sure to number each receiver with its corresponding thermostat after removing them from the box.

---

**Permanent Override or a Designated Day Override**

To hold your Manual Override for a designated number of days:

1) Press the key once to make the current program temperature the HOLD temperature. “Permanent Override” will be displayed on the LCD and the program number will disappear.
2) Use the or keys to set the Permanent Manual Override temperature you desire.
3) Press key to initiate Permanent Manual Override or wait 20 seconds for it to take affect.

You are now set in Permanent Override Mode. To set your thermostat to hold it for a designated number of days:

1) Press the key once. Override Until 1 Days will appear on the LCD and the clock will disappear.
2) Press the key to adjust the number of override days.
3) After 30 seconds the change will take affect.

---

**Auto Changeover**

When the system mode selector is in the AUTO position, the thermostat will automatically change between Heating and Cooling modes as the actual room temperature fluctuates. We recommend keeping the programmed heating and cooling temperature at least 3° apart to allow the Auto Changeover to occur when the appropriate temperature span has been reached. For example, you may have the following temperatures programmed at a given time:

Heat Set Temp = 68°F, Cool Set Temp = 78°F

If the room temperature rises above 78°F, then the thermostat will automatically change to cool mode and turn on the air conditioner. Likewise, the thermostat will automatically switch to heat mode and turn on the heat when room temperature falls below 68°F. In between 68°F and 78°F - no system operation will occur.

---

**Auto Recovery**

Auto Recovery calculates when to start the HVAC system in order to reach the programmed set-point at the programmed time. Auto Recovery can be enabled or disabled in step 4 of the installer configuration menu.

Auto Recovery will not operate if Permanent Hold or Temporary Hold is in operation.

The Heat set point can not be set higher than the Cool set point, and the Cool set point can not be set lower than the Heat set point.
Fan Operation
If your system does not have a G terminal connection, skip to the next section (cooling).
1. Turn on power to system.
2. Press \textbf{FAN} key to ON mode. The blower should begin to operate.
3. Move \textbf{FAN} key into AUTO mode. The blower should stop immediately.

Cooling System
1. Press \textbf{MODE} key to select Cool mode.
2. Press \textbf{Up} key to adjust thermostat setting below room temperature. The blower should come on immediately on high speed, followed by cold air circulation. The display should show “STG1”.
3. Adjust temperature setting to 4°F (2°C) below room temperature. The second stage cooling should begin to operate and the display should show “STG1+2”.
4. Press \textbf{Down} key to adjust the temperature setting above room temperature. The cooling system should stop operating.

Heating System (Gas)
1. Press the \textbf{MODE} key until HEAT shows on the LCD display.
2. Press \textbf{Up} key to adjust thermostat setting to 2°F (1°C) above room temperature. The first stage heating system should begin to operate. The display should show “STG1”.
3. Adjust temperature setting to 4°F (2°C) above room temperature. If your system configuration is set to STD-2, the second stage heat system should begin to operate and the display should show “STG1+2”.
4. Press \textbf{Down} key to adjust the thermostat below room temperature. The heating system should stop operating.

Emergency System (Heatpump Application Only)
EMER Mode bypasses the Heat Pump to use the heat source wired to terminal E/W1 on the Receiver. EMER is typically used when compressor operation is not desired, or you prefer back-up heat only.
1. Press the \textbf{MODE} key to select EMER. “EMER” will show on the display.
2. Press \textbf{Up} key to adjust thermostat setting above room temperature. The Aux. heating system will begin to operate. The display will show “STG1” “EMER” to indicate that auxiliary heat is operating.
3. Adjust temperature setting to 4°F (2°C) above room temperature. The auxiliary system should begin to operate and the display should show “STG1+2”.
4. Press the \textbf{Down} key to adjust the thermostat below room temperature. The auxiliary heating system should stop operating.
The Model EWT-3900 Wireless Thermostat is Linked to the Receiver at the factory. Simply power up the Receiver and operate the Thermostat. Follow the instructions below only if you find the Thermostat and Receiver are not communicating.

1. Make sure the thermostat is in the OFF position.
2. Press and Hold the key for 3 seconds until the screen changes to the menu screen.
3. Press key to scroll through the menu until the LCD displays “CRES”.
4. Use the key to select 1. Press the Matching Key on the receiver and then press the round button.
   The thermostat will force the receiver to link.
5. Test by selecting Fan ON in the Thermostat screen. Wait for the radio signal icon to flash on the screen.

If you continue to have difficulty matching your thermostat to the receiver please contact the engineering Department at EWC Controls, Inc. 1-800-446-3110.

When using more than one EWT-3900 thermostat on the same system be sure to set up one zone at a time to ensure a unique address is used for each zone.

**Keyboard Lock**

The thermostat can be locked to prevent unauthorized changes from being made.
To lock or unlock the keyboard, press and hold the button for 3 seconds. The keyboard is locked when LOCK appears on the display. Anytime a key is pressed, LOCK will appear on the screen for one second.
To exit Lock mode press and hold the key for 3 seconds.

**Filter Monitor**

Press the key repeatedly until the SYSTEM mode is OFF.
Now press the key again and hold it for 3 seconds until “FILTER” is displayed along with the number of days since the last filter change.
To reset the Filter Monitor, press and hold the button for 3 seconds. The display will blink and the counter will reset to zero. Press the key to return to the normal screen.

**Battery Conditioning**

Your 2000ma lithium battery can be recharged from the USB port on a PC or 5V power supply wall charger. The Lithium Battery should be charged at least 12 hours for the first 3 times to properly condition the battery.

**Low Battery Warning**

The Lithium-Ion battery should last approx. 9-12 months, depending on usage. When the batteries become weak, the low battery warning is indicated by the battery symbol flashing on the LCD display. At your earliest convenience you must charge the batteries using a wall charger or USB port. During the charging process the battery icon will flash. When charging is compete, the battery icon will disappear.

**ERROR CODES**

If the thermostat is unable to control the system due to an unexpected problem, the thermostat will enter Error Mode. In this condition, the thermostat flashes “E1”, “E2” on the LCD Display, ans shuts off your system. When the thermostats wireless channel is changed without registration, the display will show “E4” to warn, it must re-register again. “E4” will disappear after registration succeeded. You can set your thermostat back to the original channel to avoid re-registration.

<table>
<thead>
<tr>
<th>LCD Display</th>
<th>Error Info</th>
<th>LCD Display</th>
<th>Error Info</th>
</tr>
</thead>
<tbody>
<tr>
<td>E1</td>
<td>Sensor Error</td>
<td>E2</td>
<td>System Switch Error</td>
</tr>
<tr>
<td>E4</td>
<td>Channel Change without matching with receiver</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
The EWT-3900 comes with a USB Cable to charge your thermostat battery using your home computer.

**TO USE:** Attach the USB Cable (Provided with the EWT-3900) to the Thermostat and to the USB Port on your home computer. Your computer must be on for the charge to take affect. Allow the thermostat to charge for at least 12 hours during the first three charging cycles.

The EWT-3900 comes with a Wall Charger to charge your thermostat battery using a Standard 120VAC Wall Outlet.

**TO USE:** Attach the USB Cable to the Wall Charger. Then plug the charger into a 120 VAC wall outlet. Allow the thermostat to charge for at least 12 hours during the first three charging cycles.
FCCID: XLXA3900

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

FEDERAL COMMUNICATIONS COMMISSION (FCC) STATEMENT
This equipment has been tested to FCC requirements and has been found acceptable for use. The FCC requires the following statement for your information:

This equipment generates and uses radio frequency energy and, if not installed and used properly; that is, in strict accordance with the manufacture’s instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- If using an indoor antenna, have a quality outdoor antenna installed.
- Reorient the receiving antenna until interference is reduced or eliminated.
- Move the radio or television receiver away from the receiver/control.
- Move the antenna leads away from any wire runs to the receiver/control.
- Plug the receiver/control into a different outlet so that it and the radio or television receiver are on different branch circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user or installer may find the following booklet prepared by the Federal Communications Commission helpful:

“Interference Handbook”

This booklet is available under Stock Number 004-000-00450-7 from the US Government Printing Office, Washington DC 20402.

The user shall not make any changes or modifications to the equipment unless authorized by the Installation Instructions or User’s Manual. Unauthorized changes or modifications could void the user’s authority to operate the equipment and will void the product warranty.
Addendum to the EWT-3900 Wireless Thermostat

The Model EWT-3900 Wireless Thermostat is Linked to the Controller at the factory. Simply power up the Receiver and Operate the Thermostat. Follow the instructions below only if you find the Thermostat and Receiver are not communicating.

1. Make sure the thermostat is in the OFF position.
2. Mount the Receiver in the desired location.
3. Connect 24vac to the Receiver including all necessary HVAC equipment connections.
4. With the Thermostat in hand, Stand close to the Receiver and press the Matching Key on the side of the box for 1 second. Wait for three minutes. The thermostat will automatically link to the Receiver.
5. Test by selecting Fan ON in the thermostat screen. Wait for the radio signal icon to flash on the screen. The HVAC fan should energize.

If the Linking or Matching is unsuccessful try pressing the Matching key again. If you are still unsuccessful, perform the following procedure:

1. Make sure the thermostat is in the OFF position.
2. Press and Hold the PROG key for 3 seconds until the screen changes to the Menu screen.
3. Press the PROG key to scroll through the menu until the LCD screen displays CRES.
4. Use the UP key to select 1. Press the Matching Key on the Receiver and then press the center button between the Up and Down arrows on the Thermostat.
5. Wait for 30 seconds, the Thermostat will force the receiver to link.
6. Test by selecting Fan ON in the thermostat screen. Wait for the radio signal icon to flash on the screen. The HVAC fan should energize.

If you continue to have difficulty matching your thermostat to the Receiver, please contact the Engineering Dept. at EWC Controls, Inc. 1-800-446-3110.

WARNING: There should be at least 1 hardwired thermostat in the home or building to ensure the ability to control the HVAC equipment in the event of a drained battery or loss of communication.

To conserve power, the EWT-3900 leaves the factory in Standby Mode. When removed from the box, “PE” will be displayed on the LCD to indicate Standby Mode. When you are ready to use the thermostat, press and hold the and buttons for five seconds to exit Sleep Mode.