

OWNER'S MANUAL

P/N P374-0431

Thermostat Remote Control & Receiver

- Allows remote control operation of basic thermostat functions
- Unique 'Warmer & Cooler' commands



*Compatible with thermostat models:
P374-1700, P374-1800, P374-1900,
P374-2700, P374-2800, & P374-2900
for a complete list contact RCD*

Complete Control from

TOTALINE®

Overview

This accessory allows for the remote operation of the most basic thermostat functions.

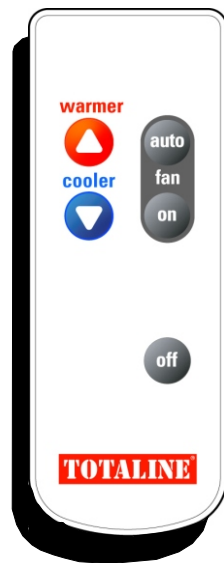
There are five buttons on the remote control. One for Off, two for Fan control, one for Warmer and one for Cooler.

The communication from the remote control to the receiver is uni-directional, without feedback to the user. It is because of this uni-directional control, we have created a unique control algorithm for this remote system.

The Warmer and Cooler buttons use a 'fuzzy logic' algorithm to decide whether to turn the heat or cool on or off.

The Warmer or Cooler operational control sequence varies depending on whether the thermostat is set to be a MANUAL or an AUTO changeover thermostat.

Operation



- Press the Warmer or Cooler buttons and the heating - cooling system will operate as outlined in pages 4 through 8.

If the thermostat was off prior to a Warmer or Cooler button press, the system will turn on in the last mode (Auto or Manual changeover) of operation prior to pressing Off.

- Press the Fan On button for continuous fan operation.
- Pressing Fan Auto will allow the Fan to turn on the fan only when there is a heat or cool demand.
- Press the Off button to turn the thermostat off.

Warmer & Cooler Commands in Manual Changeover

If the thermostat is configured for *Manual* Heat/Cool changeover:

WARMER button press while in Heat or Off mode:

When the thermostat receives a Warmer command (button press) through the remote control and the heater is not running, the set point will be raised above the room temperature to start the heater operation. This occurs even if the thermostat was Off.

When the thermostat receives a Warmer command and the heater is running, the set point will be raised 2 degrees above the present set point.

WARMER button press while in Cool mode:

When the thermostat receives a Warmer command (button press) through the remote control in Cool mode, and the air conditioner is running, the set point will be raised to the present room temperature, which will turn off the air conditioner.

If the Warmer button is pressed and the air conditioner is not running, the set point will be raised 2 degrees.

Warmer & Cooler Commands in Manual Changeover

If the thermostat is configured for *Manual* Heat/Cool changeover:

COOLER button press while in Cool or Off mode:

When the thermostat receives a Cooler command (button press) through the remote control and the air conditioner is not running, the set point will be lowered below the room temperature to start the cooling operation. This occurs even if the thermostat was Off.

When the thermostat receives a Cooler command and the air conditioning is running, the set point will be lowered 2 degrees below the present set point.

Cooler button press while in Heat mode:

When the thermostat receives a Cooler command (button press) through the remote control, and the heater is running, the set point will be lowered to the present room temperature which will turn off the heater.

If the Cooler button is pressed and the heater is not running, the set point will be lowered 2 degrees.

Warmer & Cooler Commands in Auto Changeover

If the thermostat is configured to Auto Heat/Cool changeover:

WARMER button press while in Auto or Off mode:

When the thermostat receives a warmer command (button press) through the remote control, and the heater is not running, the set points will be raised to start the heater operation. If the heater is running upon a Warmer button press, the set points will be raised 2 degrees.

The remote control receiver will allow up to 3 successive Warmer button presses. After the 3rd successive Warmer button press, the IR receiver will not accept an additional Warmer button press for 1 minute.

When the thermostat receives a Warmer command (button press) and the air conditioner is running, the set points will be raised so that the Cool set point is the same as the present room temperature which will then turn off the air conditioner. The thermostat will not accept another Warmer button press for 10 seconds.

Warmer & Cooler Commands in Auto Changeover

If the thermostat is configured to Auto Heat/Cool changeover:

COOLER button press while in Auto or Off mode:

When the thermostat receives a Cooler command (button press) through the remote control and the air conditioner is not running, the set points will be lowered to start the air conditioning operation. If the air conditioner is running upon a Cooler button press, the set points will be lowered 2 degrees. The remote control receiver will allow up to 3 successive Cooler button presses. After the 3rd successive Cooler button press, the IR receiver will not accept an additional Cooler button press for 1 minute.

When the thermostat receives a Cooler command (button press) and the heater is running, the set points will be lowered so that the Heat set point is the same as the present room temperature which will then turn off the heater. The thermostat will not accept another Cooler button press for 10 seconds.

Examples of Typical Operation

The following 3 examples illustrate operation when the thermostat is Off.

Example #1

- The thermostat was turned off the prior day while in Auto changeover mode.
- The following will occur if the Warmer button is pressed while the thermostat is off:
 - The thermostat changes from Off to Auto.
 - The set point is raised to start heater operation.

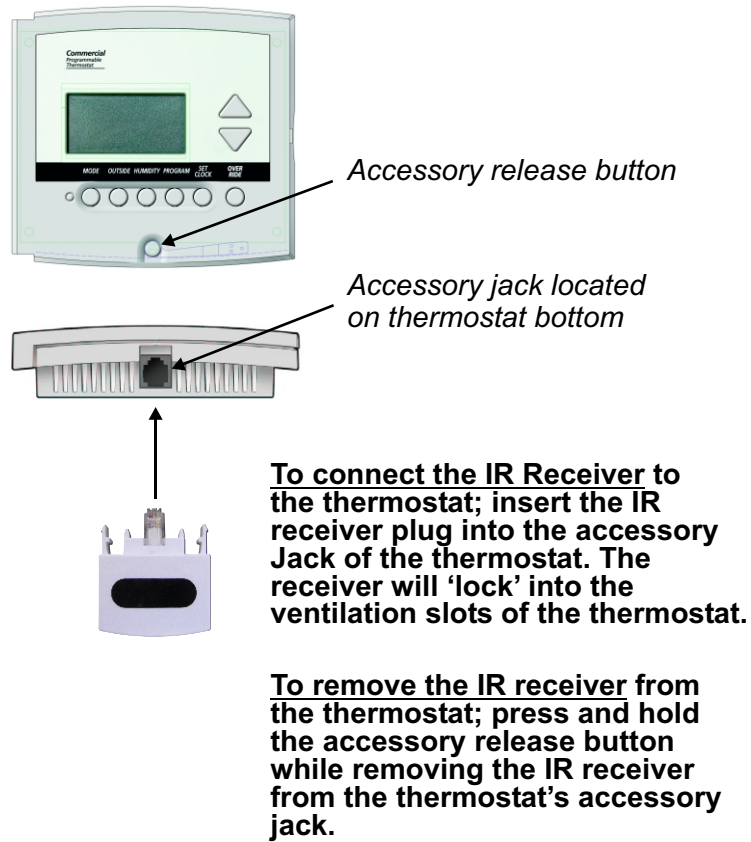
Example #2

- The thermostat was turned off the prior day while in Manual, 'standalone' Heat mode.
- The following will occur if the Warmer button is pressed while the thermostat is off:
 - The thermostat changes from Off to Heat.
 - The set point is raised to start heater operation.

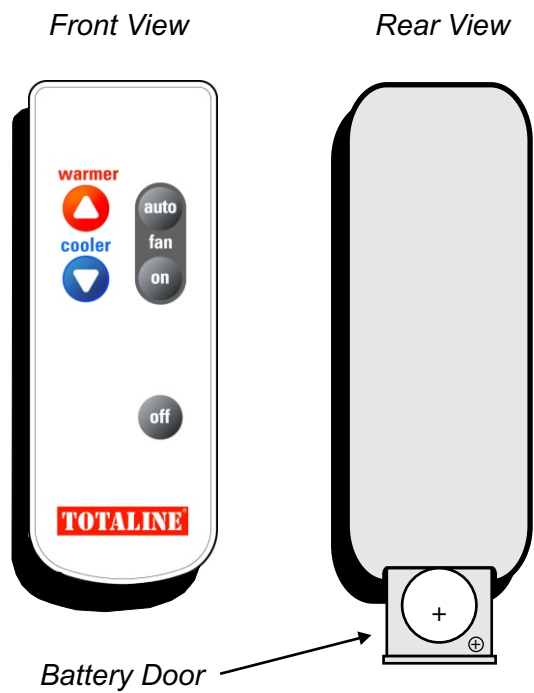
Example #3

- The thermostat was turned off the prior day while in Manual, 'standalone' Cool mode.
- The following will occur if the Warmer button is pressed while the thermostat is off:
 - The thermostat changes from Off to Heat.
 - The set point is raised to start heater operation.

Connection



Remote Control Battery Replacement



*Replace battery with CR 2025 or equivalent.
A replacement remote control may be purchased
separately, P/N P374-0433*

Warranty

One-Year Warranty - This Product is warranted to be free from defects in material and workmanship. If it appears within one year from the date of original installation, whether or not actual use begins on that date, that the product does not meet this warranty, a new or remanufactured part, at the manufacturer's sole option to replace any defective part, will be provided without charge for the part itself provided the defective part is returned to the distributor through a qualified servicing dealer.

THIS WARRANTY DOES NOT INCLUDE LABOR OR OTHER COSTS incurred for diagnosing, repairing, removing, installing, shipping, servicing or handling of either defective parts or replacement parts. Such costs may be covered by a separate warranty provided by the installer.

THIS WARRANTY APPLIES ONLY TO PRODUCTS IN THEIR ORIGINAL INSTALLATION LOCATION AND BECOMES VOID UPON REINSTALLATION.

LIMITATIONS OF WARRANTIES – ALL IMPLIED WARRANTIES (INCLUDING IMPLIED WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE AND MERCHANTABILITY) ARE HEREBY LIMITED IN DURATION TO THE PERIOD FOR WHICH THE LIMITED WARRANTY IS GIVEN. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE MAY NOT APPLY TO YOU. THE EXPRESSED WARRANTIES MADE IN THIS WARRANTY ARE EXCLUSIVE AND MAY NOT BE ALTERED, ENLARGED, OR CHANGED BY ANY DISTRIBUTOR, DEALER, OR OTHER PERSON WHATSOEVER.

ALL WORK UNDER THE TERMS OF THIS WARRANTY SHALL BE PERFORMED DURING NORMAL WORKING HOURS. ALL REPLACEMENT PARTS, WHETHER NEW OR REMANUFACTURED, ASSUME AS THEIR WARRANTY PERIOD ONLY THE REMAINING TIME PERIOD OF THIS WARRANTY.

THE MANUFACTURER WILL NOT BE RESPONSIBLE FOR:

1. Normal maintenance as outlined in the installation and servicing instructions or owner's manual, including filter cleaning and/or replacement and lubrication.
2. Damage or repairs required as a consequence of faulty installation, misapplication, abuse, improper servicing, unauthorized alteration or improper operation.
3. Failure to start due to voltage conditions, blown fuses, open circuit breakers or other damages due to the inadequacy or interruption of electrical service.
4. Damage as a result of floods, winds, fires, lightning, accidents, corrosive environments or other conditions beyond the control of the Manufacturer.
5. Parts not supplied or designated by the Manufacturer, or damages resulting from their use.
6. Manufacturer products installed outside the continental U.S.A., Alaska, Hawaii, and Canada.
7. Electricity or fuel costs or increases in electricity or fuel costs for any reason whatsoever including additional or unusual use of supplemental electric heat.
8. ANY SPECIAL INDIRECT OR CONSEQUENTIAL PROPERTY OR COMMERCIAL DAMAGE OF ANY NATURE WHATSOEVER. Some states do not allow the exclusion of incidental or consequential damages, so the above may not apply to you.

This warranty gives you specific legal rights and you may also have other rights which may vary from state to state.