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You can read the recommendations in the user guide, the technical guide or the installation guide for HONEYWELL CHORONOTHERM IV INSTALLATION GUIDE, CHRONOTHERM 4 INSTALLATION GUIDE. You'll find the answers to all your questions on the HONEYWELL CHORONOTHERM IV INSTALLATION GUIDE, CHRONOTHERM 4 INSTALLATION GUIDE in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

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**Honeywell**

**T8602D Chronotherm® IV  
Programmable Thermostats**

INSTALLATION INSTRUCTIONS

**APPLICATION**

The T8602D Chronotherm® IV Programmable Thermostat provides electronic control of 24V ac single-phase heating and cooling systems, a 750 mA/ heating and 750 mA/ cooling. Refer to Table 1 for a general description of the thermostat. All T8602D Thermostats are factory set to auto.

Table 1: Description of T8602 Thermostats.

T8602	System	Changeover	System Selection	Fun- Selection	Comments
0	Heat/Cool	Manual or Automatic Schedule	Heat/Off/Cool/Auto	On/Auto	System and fun selection are done by keypad.

**MERCURY NOTICE**  
If this notice is included in a unit that contains mercury in sealed tubes, do not throw your unit away in the trash. Dispose of properly.  
Contact your local waste management authority for instructions regarding recycling and the proper disposal of the air control.

**Multiple Installation**  
The thermostat can be mounted horizontally on the wall or on a 50.8 mm x 101.6 mm (2 in. x 4 in.) ceiling box. Position vertically horizontally on the wall or on a 50.8 mm x 101.6 mm (2 in. x 4 in.) ceiling box.

**When Installing this Product...**

- Read these instructions carefully. Failure to follow the instructions can damage the product or cause a hazardous condition.
- Check the ratings given in the instructions and on the product to make sure the product is suitable for your application.
- Install in a dry, well-ventilated area.
- After completing installation, use these instructions to check the product operation.

**Location**  
Install the thermostat about 150 mm (6 in.) above the floor in an area away from air circulation at average temperature. See Fig. 1.

- Position and level the wallplate (for appearance only). The thermostat function controls work when not level.
- Use a pencil to mark the mounting holes. See Fig. 2.
- Remove the wallplate from the wall and drill two 4.8 mm (3/16 in.) holes in the wall (if drilled) on each side. For 5/16 in. metal back-up plate, drill two 5.0 mm (3/16 in.) holes. Drill two 5.0 mm (3/16 in.) holes. Drill two 5.0 mm (3/16 in.) holes. Drill two 5.0 mm (3/16 in.) holes. Drill two 5.0 mm (3/16 in.) holes.
- Position the wallplate over the holes, pulling wires through the wiring opening.
- Loosen the wiring mounting screws into the holes.
- Tighten mounting screws.

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**Manual abstract:**

Refer to Table 1 for a general description of the thermostat. All T8602 Thermostats are powered by batteries. Table 1. Description of T8602 Thermostats. T8602 D System Heat-Cool Changeover Manual or Automatic Selectable System Selection Heat-Off-Cool or Heat-Off-Cool-Auto Fan Selection On-Auto Comments System and fan selections are done by keyboard. If this control is replacing a control that contains mercury in a sealed tube, do not place your old control in the trash. Dispose of properly. Contact your local waste management authority for instructions regarding recycling and the proper disposal of the old control. MERCURY NOTICE 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. — unheated (uncooled) areas such as an outside wall behind the thermostat.

Wallplate Installation The thermostat can be mounted horizontally on the wall or on a 50.8 mm x 101.

6 mm (2 in. x 4 in.) wiring box. Position wallplate horizontally on the wall or on a 50.8 mm x 101.

6 mm (2 in. x 4 in.) wiring box. 1. 2. 3. Position and level the wallplate (for appearance only). The thermostat will function properly even when not level. Use a pencil to mark the mounting holes. See Fig.

2. Remove the wallplate from the wall and drill two 4.76 mm (3/16 in.) holes in the wall (if drywall) as marked. Loosely insert the mounting screws into the holes. Tighten mounting screws. INSTALLATION When Installing this Product... 1.

2. 3. 4. Read these instructions carefully. Installer must be a trained, experienced service technician.

5. See Fig. 1. U.S.

Registered Trademark Copyright © 2003 Honeywell International Inc. • All Rights Reserved 69-1510-4 T8602D CHRONOTHERM® IV PROGRAMMABLE THERMOSTATS YES NO NO 1.5 METERS (5 FEET) NO M10856 Fig. 1. Typical location of thermostat. 1. Loosen the terminal screws on the wallplate and connect the system wires. See Fig. 7. WALL WIRES THROUGH WALL IMPORTANT Use 18 gauge, color-coded thermostat cable for proper wiring.

2. 3. 4. Securely tighten each terminal screw. Push excess wire back into the hole. Plug the hole with nonflammable insulation to prevent drafts from affecting the thermostat. THERMOSTAT RC 2 Y G W R OT 3 COMPRESSOR CONTACTOR FAN RELAY HEAT RELAY OT WALL ANCHORS (2) MOUNTING HOLES MOUNTING SCREWS M15044 OUTDOOR TEMPERATURE SENSOR 1 Fig. 2. Mounting the wallplate. L1 (HOT) L2 1 L1 (HOT) L2 COOLING TRANSFORMER HEATING TRANSFORMER WIRING All wiring must comply with local electrical codes and ordinances.

Refer to Fig. 3 through 6 for typical hookups. A letter code is located near each terminal for identification. 1 POWER SUPPLY. PROVIDE DISCONNECT MEANS AND OVERLOAD PROTECTION AS REQUIRED.

AVAILABLE ON SELECT MODELS. Can cause electrical shock or equipment damage. Disconnect power before wiring. Fig. 3.

PROVIDE DISCONNECT MEANS AND OVERLOAD PROTECTION AS REQUIRED. CAN BE USED FOR CHANGEOVER VALVE ON SINGLE-STAGE HEAT PUMP SYSTEMS. AVAILABLE ON SELECT MODELS. OT WIRES MUST HAVE A SEPARATE CABLE FROM THE THERMOSTAT CABLE. M10347A POWER SUPPLY. 6. 4. (11 MM). FOR STRAIGHT INSERTION STRIP 5/16 IN. 7.

Correct wiring technique. WR Mounting Thermostat 1. LIMIT CONTROL MILLIVOLTAGE GAS CONTROL M2931 2. Engage tabs at the top of the thermostat and wallplate. See Fig. 7. Press lower edge of case to close and latch. PP MILLIVOLTAGE GENERATOR NOTE: To remove the thermostat from the wall, first pull out at the bottom of the thermostat; remove top last. Fig. 5.

Typical hookup in millivoltage heating circuit. A. ENGAGE TABS AT TOP OF THERMOSTAT AND WALLPLATE. B. PRESS LOWER EDGE OF CASE TO LATCH.

M14628 Fig. 8. Mounting thermostat on wallplate. 3 69-1510-4 T8602D CHRONOTHERM® IV PROGRAMMABLE THERMOSTATS Using Thermostat Keys The thermostat keys are used to: • set current day and time, • program times and setpoints for heating and cooling, • temporarily override program temperatures, • display present setting, • configure Installer Setup, •••• check Self-Test, display outdoor temperature (select models), set the system operation, set the fan operation. See Fig.

9 for the location of the keys. SET WAKE TIMES INCREASE TIME SETTING AND SETPOINTS OR SCROLL FORWARD THROUGH INSTALLER SETUP AND SYSTEM TEST SET CURRENT DAY AND TIME SET LEAVE TIMES AND SETPOINTS SET RETURN TIMES AND SETPOINTS INCREASE TEMPERATURE SETTING OR SCROLL FORWARD THROUGH INSTALLER SETUP OPTIONS DECREASE TEMPERATURE SETTING OR SCROLL BACKWARD THROUGH INSTALLER SETUP OPTIONS DISPLAY INFORMATION SUCH AS PRESENT SETTINGS AND OUTDOOR TEMPERATURE RETURN TO NORMAL OPERATIONS ENTER INDEFINITE OR TIMED HOLD MODE Time Run Program Set Current Day/Time Wake Set Program Leave Return Sleep SET SLEEP TIMES AND SETPOINTS Hold Temp Day Heat/Cool Settings System Fan SET CURRENT OR PROGRAM DAY CHANGE BETWEEN DAYLIGHT SAVINGS AND STANDARD TIME SELECT FAN OPERATION SELECT SYSTEM OPERATION Daylight Time Copy COPY ONE PROGRAMMED DAY TO ANOTHER DAY DECREASE TIME SETTING OR SCROLL BACKWARD THROUGH INSTALLER SETUP AND SYSTEM TEST CHANGE BETWEEN HEATING AND COOLING SETPOINTS M14624 Fig. 9. T8602D key locations and descriptions. SETTINGS System and Fan Settings The System default setting is Heat and the Fan default setting is Auto. Use the System and Fan keys to change the settings. See Fig. 10. The fan settings can be set for each program period individually. The system selection is for all the program periods.

System settings control the thermostat operation as follows: Heat: The thermostat controls the heating. Off: Both the heating and cooling are off. Cool: The thermostat controls the cooling. Auto: The thermostat automatically changes between heating and cooling operation, depending on the indoor temperature. Fan settings control the system fan as follows: On: Fan operates continuously. Auto: Fan operates with equipment. Time Run Program Set Current Day/Time Wake Set Program Leave Return Sleep Hold Temp Day Heat/Cool Settings System System Fan Daylight Time Copy Fan M14625 Fig. 10. Thermostat System and Fan key locations. NOTE: Always press the keys with your fingertip or similar blunt tool.

Sharp instruments like a pen or pencil point can damage the keyboard. 69-1510-4 4 T8602D CHRONOTHERM® IV PROGRAMMABLE THERMOSTATS Temperature Settings Refer to Table 2 for the default program settings. If the daytime energy savings period is not used, press the period key (Leave or Return) until the time is blank. The fan setting feature is available on select thermostat models. Table 2.

Default Program Settings. 11. Installer Setup numbers are listed in Table 3. See Fig. 11 and 12.

— To change a setting, use the increase or decrease key. 12. Can cause equipment damage. Thermostat Installer Setup Options. — 6—6 cph used for conventional heat. Actual Setting — Select Not Used.

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Fan operation. Not Used. @@3—3 cph used for hot water systems or high efficiency furnaces. 9—9 cph used for electric heat systems.

@@@— 12-hour clock format. @@Clock format. Not Used. Outdoor temperature display (select models). Not Used. @@— Outdoor temperature is displayed. Needs a C7089B1000 Outdoor Temperature Sensor to operate. @@13. @@14. Display of test number.

@@@Press Run Program to exit the System Test 69-1510-4 8 T8602D CHRONOTHERM® IV PROGRAMMABLE THERMOSTATS Table 5. Installer System Test Options. Keys to Press Test Number Description Heating Equipment System Test Time Δ 10 11 10 Enter heating equipment system test. Heat comes on. When Installer Setup number 2 is 1, the system fan is also energized.

Heat and system fan turn off. Cooling Equipment System Test Time Δ 30 31 30 Change from heating to cooling equipment system test. Cool and system fan come on. Cool and system fan turn off. Fan Equipment System Test Time Δ 40 41 40 Change from cooling to fan equipment system test.

Fan comes on. Fan turns off. Key Operation System Test Time Δ 60 2 Change from fan to key operation system test. NOTE: Press any key and the displayed numbers will change. Press Time □ to go to the previous test and Time Δ to go to the next test. The Run Program key does not exit this test. @@@@The first two large digits are the month and the third digit is the last digit of the year. (Example: 027 = February 1997). Press the increase key again to display the EEPROM identification code. (Example: 314 = EEPROM ID 314).

M14617 6. M14614 Press the Run Program key to exit the system test. The system test times out after four minutes without any key presses. 3. Press the increase key again to display the software identification code. (Example: 02 = software ID code 2). CHECKOUT Outdoor Temperature Sensor (Select Models) Allow the outdoor temperature sensor to absorb the outdoor air for a minimum of five minutes before taking a reading. M14615 69-1510-4 10 T8602D CHRONOTHERM® IV PROGRAMMABLE THERMOSTATS TROUBLESHOOTING GUIDE Table 6. Troubleshooting Guide. Symptom Display will not come on.

Possible Cause Thermostat is not being powered. Act.



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