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You can read the recommendations in the user guide, the technical guide or the installation guide for HONEYWELL RTH230B. You'll find the answers to all your questions on the HONEYWELL RTH230B in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual HONEYWELL RTH230B
User guide HONEYWELL RTH230B
Operating instructions HONEYWELL RTH230B
Instructions for use HONEYWELL RTH230B
Instruction manual HONEYWELL RTH230B

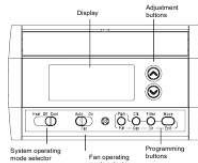
Honeywell RTH230B Programmable Electronic Thermostat Installation and User Guide

1. Introduction

The RTH230B programmable thermostat can be used to control:

- a gas, fuel oil or electric furnace - 2 or 3 wires
- a central air conditioner - 2 or 3 wires
- a hot water system with or without pump - 2 wires
- a millivolt system - 2 wires
- a central heating and cooling system - 4 or 5 wires

Note: These thermostats are not compatible with heat pumps or multi-stage systems.



Features

- System operating mode selection: heat, cool or off
- Fan operating mode selection: automatic or on (continuous)
- Programmable heating and cooling cycle lengths: 10, 12, 15, 20 or 30 minutes
- Temperature display in "F" or "C"
- Battery replacement indicator
- 5-2 programming including:
 - Preprogrammed energy-saving schedule
 - Early Start
 - Temporary bypass
 - Time display (12 h or 24 h)
- Filter replacement indicator

2. Installation

2.1 Removing the Old Thermostat

IN ORDER TO AVOID ANY RISK OF ELECTRIC SHOCK, CUT POWER TO THE HEATING SYSTEM.

- 1 Remove the old thermostat to access the wires.

Warning: If the old thermostat was mounted onto an electrical box, it was probably powered by 120/240 volts. In this case, this thermostat cannot be used.

- 2 Identify and label each wire (with the corresponding letter on the wire terminal) and remove them from the terminals.
- 3 If necessary, strip the end of each wire (maximum of 1/4 inch).

RTH230B

- 4 Wrap the wires around a pencil to prevent them from falling into the wall.
- 5 If the hole in the wall is too big, insulate it using a non-flammable material in order to avoid air draughts behind the thermostat.



2.2 Installing the New Baseplate

For a new installation, choose a location approximately 5 feet (1.5 m) above the floor and on an inside wall. Avoid draughty areas (top of staircase, air outlet, etc.), dead air spots (behind doors), direct sunlight or areas near concealed pipes or chimneys.



- 1 Remove the thermostat faceplate.
- 2 Loosen the locking screw to separate the thermostat from its baseplate (the screw cannot be completely removed).



- 3 Tilt the thermostat upwards.
- 4 Mark and bore the appropriate mounting holes (or use the existing holes). Insert the plastic anchors.
- 5 Pass the wires through the opening of the baseplate and fix the baseplate to the wall using the screws provided.

2.3 Connecting the Thermostat

The connection of the new thermostat should be similar to that of the old thermostat; however, it can vary depending on the installation.

Rh	Heating power supply
Rc	Cooling power supply
W	Heating signal
Y	Cooling signal
G	Fan

Note: The red jumper wire between the Rc and Rh terminals must be removed in 2- or 5-wire installations. The jumper must be used in 3- or 4-wire installations if you wish to use the mode selector switch for the fan.

66-1800 2/6/05 1/4



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Manual abstract:

If the hole in the wall is too big, insulate it using a non-flammable material in order to avoid air draughts behind the thermostat. Installation and User Guide
1. Introduction The RTH230B programmable thermostat can be used to control: · a gas, fuel oil or electric furnace - 2 or 3 wires · a central air conditioner - 2 or 3 wires · a hot water system with or without pump - 2 wires · a millivolt system - 2 wires · a central heating and cooling system - 4 or 5 wires Note: These thermostats are not compatible with heat pumps or multi-stage systems. Display Adjustment buttons 2.2 Installing the New Baseplate For a new installation, choose a location approximately 5 feet (1.5 m) above the floor and on an inside wall. Avoid draughty areas (top of staircase, air outlet, etc.), dead air spots (behind doors), direct sunlight or areas near concealed pipes or chimneys. Remove the thermostat faceplate. Loosen the locking screw to separate the thermostat from its baseplate (the screw cannot be completely removed).

System operating mode selector Fan operating mode selector Programming buttons Features · System operating mode selection: heat, cool or off · Fan operating mode selection: automatic or on (continuous) · Programmable heating and cooling cycle lengths: 10, 12, 15, 20 or 30 minutes · Temperature display in °F or °C · Battery replacement indicator · 5-2 programming including: · Preprogrammed energy-saving schedule - Early Start - Temporary bypass · Time display (12 h or 24 h) · Filter replacement indicator Tilt the thermostat upwards. @@Insert the plastic anchors. @@Installation 2.1 Removing the Old Thermostat IN ORDER TO AVOID ANY RISK OF ELECTRIC SHOCK, CUT POWER TO THE HEATING SYSTEM. Remove the old thermostat to access the wires.

Warning: If the old thermostat was mounted onto an electrical box, it was probably powered by 120/240 volts. In this case, this thermostat cannot be used. Identify and label each wire (with the corresponding letter on the wire terminal) and remove them from the terminals. @@@@J2 jumper Heat relay HE Use this setting if you have an electric furnace. In this setting, when the fan is placed in automatic mode, it works only when heating or cooling is activated.

Use this setting if you have a gas or fuel oil furnace. In this setting, when the fan is placed in automatic mode, it works as follows: · When the thermostat is placed in cool mode, the fan works only when cooling is activated. @@Install the batteries as shown. @@You will hear a clicking sound. @@Afterwards, the screen displays the actual temperature. @@@@Apply power back to the system. 3. Basic Functions 3.1 System Operating Mode Use the selector switch to place the system in Heating mode (HEAT) or Cooling mode (COOL), or to set the system off. 2.

3.6 5-wire Heating and Cooling Fan relay Note: When you place the thermostat in Cooling mode, you might need to wait up to five minutes before cooling can start. This is a safety feature for the compressor. will flash on the screen until cooling can start again. Heat relay Cool relay RTH230B 69-1800 2/6/05 2/4 3.2 Fan Operating Mode Use the selector switch to set the fan to automatic mode (AUTO) or continuous mode (ON). Note: This switch is not used if you have a 2-wire installation as the fan is not connected to the thermostat. · · AUTO If you have an electric furnace (see section 2.4), the fan works only when heating or cooling is activated. If you have a gas or fuel oil furnace (see section 2.

4), the fan works as follows: · · ON When the thermostat is placed in cool mode, the fan works only when cooling is activated. When the thermostat is placed in heat mode, the fan is controlled by the furnace fan control circuitry. 3.7 Battery Replacement Indicator An icon appears when the batteries need replacement. This icon will flash for 120 days, then the thermostat will cut power to the heating/cooling unit.

The icon disappears once the batteries are replaced. After replacing the batteries, readjust the time and day (see section 5.1).

@@@@@@@@@@@@@@@@@@@@To view the setpoint, press once on one of the buttons. The setpoint is displayed for 5 seconds along with the icon.

Note: Pressing either of the change the setpoint. @@@@To place the thermostat in this mode, press [Mode]. @@To place the thermostat in this mode, press [Mode]. The current period will be displayed. @@@@The house icon flashes during the bypass. At the end of the bypass period, the thermostat returns to the temperature settings of the period currently underway. For optimal heating control, use the setting that matches your system as follows: 2=30 min (steam, gravity), 3=20 min (hot water, 90%+ high-efficiency furnace), 4=15 min (gas or oil), 5=12 min (alternate setting for gas or oil), 6=10 min (electric). The corresponding cooling cycle lengths are as follows: 2=30 min, 3=20 min, 4=15 min, 5=12 min, 6=10 min 4 5. Programming 5.1 Setting the Time and Day Press [Clk].

The hour flashes. Set the hour using Set the minutes using Set the day using Press [Exit] to exit. . . . Press [Clk]. The minutes flash. Press [Clk]. @@@@@@6:00 a.m.

6. @x 3 in. x 1 in. @@@@If at any time during the warranty period the product is determined to be defective or malfunctions, Honeywell shall repair or replace it (at Honeywell's option). If the product is defective, (i) return it, with a bill of sale or other dated proof of purchase, to the place from which you purchased it, or (ii) call Honeywell Customer Care at 1-800-468-1502.

Customer Care will make the determination whether the product should be returned to the following address: Honeywell Return Goods, Dock 4 MN10-3860, 1885 Douglas Dr N, Golden Valley, MN 55422, or whether a replacement product can be sent to you. This warranty does not cover removal or reinstallation costs. This warranty shall not apply if it is shown by Honeywell that the defect or malfunction was caused by damage which occurred while the product was in the possession of a consumer. @@@@@@THE DURATION OF ANY IMPLIED WARRANTIES, INCLUDING THE WARRANTIES OF

MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, IS HEREBY LIMITED TO THE ONE-YEAR DURATION OF THIS WARRANTY.

Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

This warranty gives you specific legal rights, and you may have other rights which vary from state to state. If you have any questions concerning this warranty, please write Honeywell Customer Relations, 1985 Douglas Dr, Golden Valley, MN 55422 or call 1800-468-1502. In Canada, .



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