

freewatt Thermostat

INSTALLATION ADDENDUM

RC-1000WH-ECR

IMPORTANT

WARNING



These instructions must be performed by a qualified, certified installer or service agency, in accordance with the manufacturer's instructions, and in accordance with all codes and requirements of the authority having jurisdiction. Failure to follow these instructions could cause a malfunction of the system and result in death, serious bodily injury, and/or property damage.

NOTICE

Completely read these instructions before attempting installation or operation.

NOTICE

The RC-1000WH-ECR freewatt Thermostat supplied with the freewatt system has been customized specifically for use with the freewatt system and an off-the-shelf RC-1000 WH thermostat will not function properly. Please source the RC-1000WH-ECR freewatt thermostat through authorized freewatt Distributors.

MECHANICAL

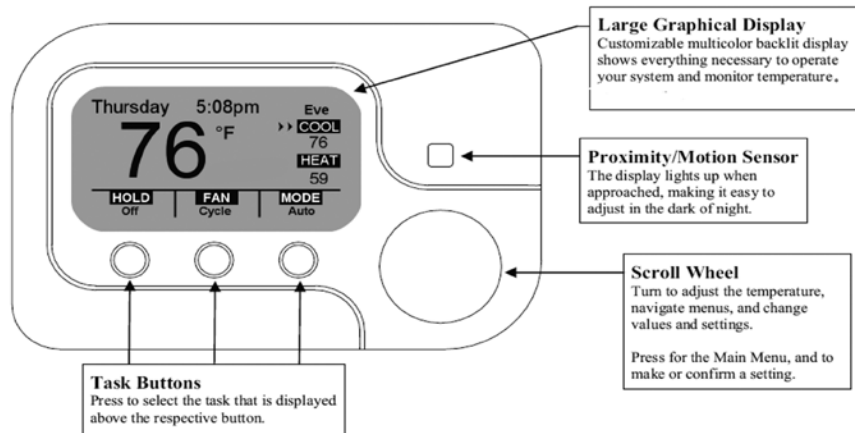
The freewatt systems are supplied with an enhanced freewatt thermostat. The following document will outline the updated installation instructions for the new freewatt thermostat.

The freewatt thermostat has different packaging and cover. Please see **Figures 1 & 2** and read the supplied installation manual and User's Guide for specific product information. This document will outline differences between the previous RC-80B and the new freewatt thermostats and also provide tips for installation and commissioning.

Figure 1 - New freewatt Thermostat



Figure 2 - New freewatt Thermostat Controls

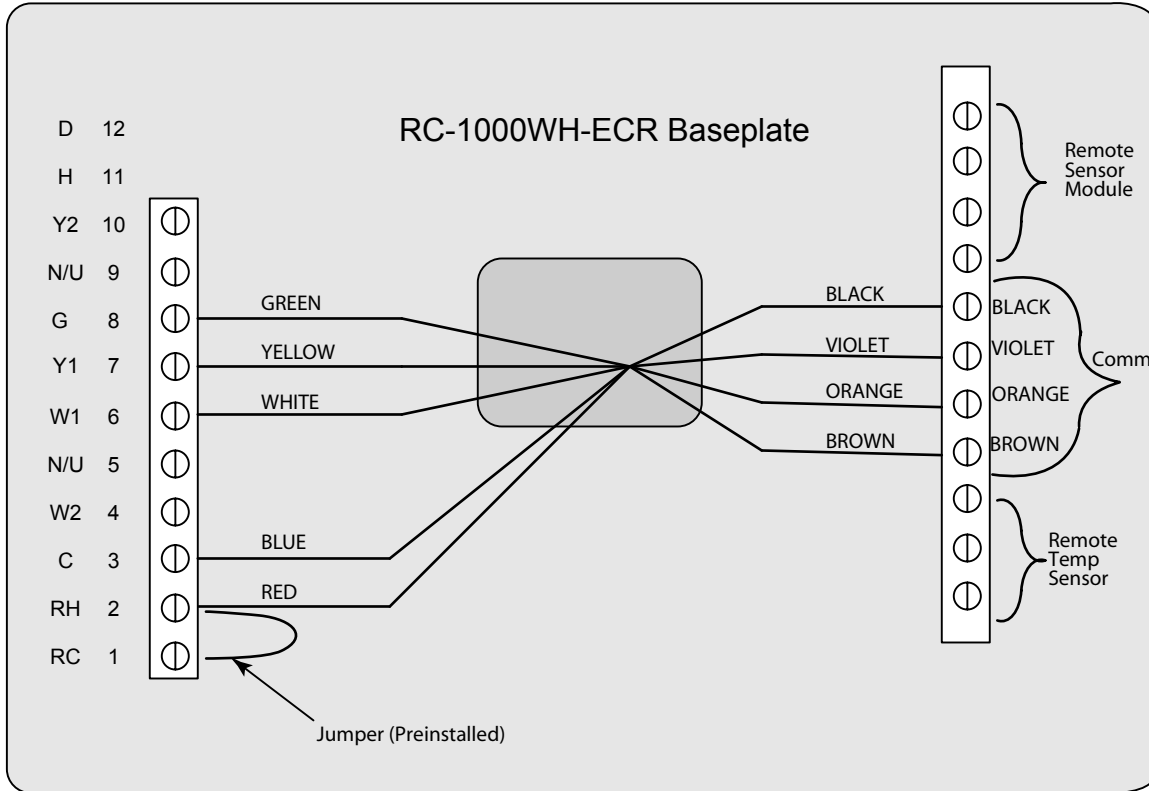


Electrical

The new freewatt thermostat has terminal blocks and does not use a pigtail like the previous RC-80B Thermostat. Figure 3 shows the wiring connections according to wire color. The other end of the communication wiring should be installed at the system controller according to the instructions in the freewatt system installation manual.

The new freewatt thermostat requires the same 10-conductor cable required to connect the previous RC-80B thermostat to the freewatt system controller.

Figure 3 - New freewatt Thermostat Connections



TIPS

The new freewatt thermostat has many new features and these tips allow the freewatt installer to properly install and commission the new freewatt thermostat. The new freewatt thermostat is shipped as a “plug and play” component with no configuration changes required to make it compatible with the freewatt System. This is different from the previous RC-80B thermostat that required configuration register changes to operate with the freewatt System.

- **BACKLIGHT:** The backlight feature of the new freewatt thermostat turns ON and OFF with the help of the Proximity/Motion Sensor. Depending on the installation location of the thermostat (i.e. bedroom or hallway), this feature may not be wanted and lowering the sensitivity of the motion sensor or disabling the backlight function may be necessary. Please see Page 3 of the User’s Manual or go through the new freewatt thermostat menus (Setup -> Settings -> Proximity).

- **COPY DAYS:** During the commissioning of the thermostat, days may be copied by following the instructions found on page 15 of the User’s Manual. This allows for a quicker commissioning.
- **MCHP RUNTIME:** The MCHP Runtime will be periodically displayed in the message area at the top of the new freewatt thermostat LCD display, alternating with the day and time display. When the MCHP is operating, the “MCHP” text will be in CAPITAL LETTERS. When the MCHP is not operating, the “MCHP” text will be in lower case letters.
- **SYSTEM ERROR:** If a freewatt System ERROR should occur, the ERROR message and code will be displayed in the message area at the top of the new freewatt thermostat LCD display. The backlight will also turn on and the color will change to RED to attract attention to the ERROR condition.