



Honeywell HH57AC080 Temperature Sensor Instruction Manual

[Home](#) » [Honeywell](#) » Honeywell HH57AC080 Temperature Sensor Instruction Manual 

Contents

- [1 Honeywell HH57AC080 Temperature Sensor](#)
- [2 Installation Instructions](#)
 - [2.1 PACKAGE CONTENTS](#)
- [3 SAFETY CONSIDERATIONS](#)
- [4 GENERAL](#)
 - [4.1 Outdoor Dry Bulb Changeover Control](#)
 - [4.2 GENERAL INSTALLATION](#)
- [5 CONFIGURATION](#)
 - [5.1 Outdoor Dry Bulb Changeover](#)
 - [5.2 Outdoor Air Sensor](#)
- [6 Documents / Resources](#)
- [7 Related Posts](#)

Honeywell

Honeywell HH57AC080 Temperature Sensor



Installation Instructions

Part No. CRTEMPSN002A00

The accessory temperature sensor can be used on all rooftop units with a factory-installed or accessory Economizers IV system.

PACKAGE CONTENTS

QTY	CONTENTS
1	Temperature Sensor
2	6-20, 3/4 In. Sheet Metal Screw
1	Grommet
1	Black Wire
1	Red Wire

IMPORTANT: Read these instructions completely before attempting to install the accessory temperature sensor.

SAFETY CONSIDERATIONS

Installation and servicing of air-conditioning equipment can be hazardous due to system pressure and electrical components. Only trained and qualified service personnel should install, repair, or service air-conditioning equipment.

Untrained personnel can perform basic maintenance functions of cleaning coils and filters and replacing filters. All other operations should be performed by trained service personnel. When working on air-conditioning equipment, observe precautions in the literature, tags and labels attached to the unit, and other safety precautions that may apply.

Follow all safety codes. Wear safety glasses and work gloves. Use quenching cloth for unbrazing operations. Have fire extinguisher available for all brazing operations.

It is important to recognize safety information. This is the safety-alert symbol . When you see this symbol on the unit and in instructions or manuals, be alert to the potential for personal injury.

Understand the signal words DANGER, WARNING, CAUTION, and NOTE. These words are used with the safety-alert symbol.

make the connections as described. The CRTEMPSN002A00 kit contains an extra red and black wire. (See Fig. 3.)

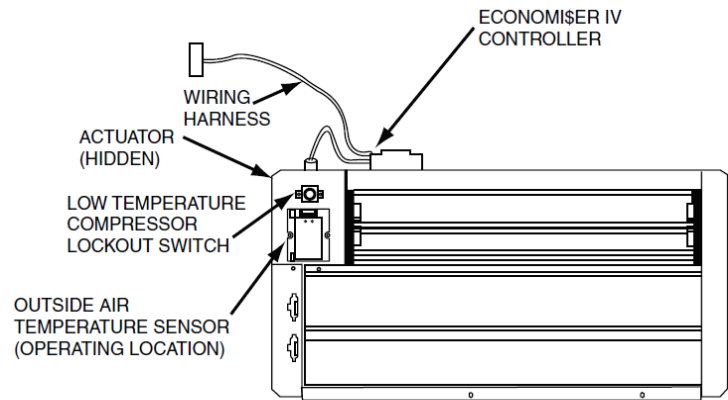


Fig. 2 — EconoMi\$er IV Component Locations

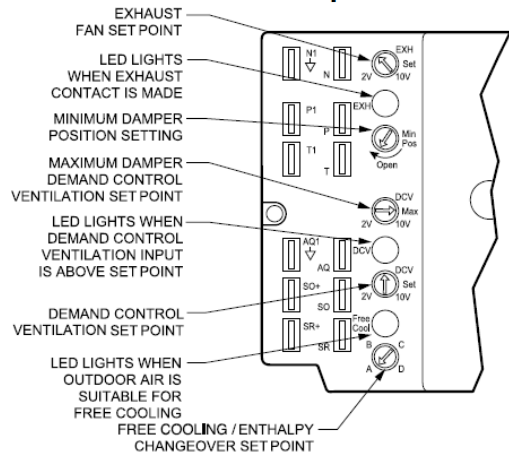


Fig. 3 — EconoMi\$er IV Controller Potentiometer and LED Locations

6. Pick up the black and red wires left hanging in Step 3 and connect them to the temperature sensor. Connect the red wire to the sensor’s “-” terminal and the black wire to the sensor’s “+” terminal. See Fig. 4 for details.
7. Restore power to the unit and configure the Economizers IV controller per the configuration section of this manual.
8. Depending on the type of panels the unit is equipped with:
 1. Units with standard panels — re-install the Economizers hood. Secure the hood using the screws saved from Step 2a.
 2. Units with factory-installed hinged panels — Close the hinged panel and latch it.

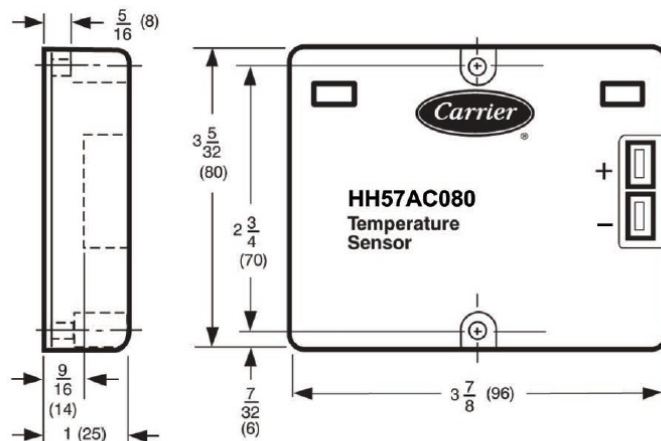


Fig. 4 — Temperature Sensor Specifications

C7660 Dry Bulb Sensor Set Up

See Fig. 5 and 6.

When outdoor air temperature is below the changeover set point, the sensor will provide a 20 mA signal to the economizer which translates to OK to economize positioning the damper open on a call for cooling. When the outdoor air is above the changeover set point, the sensor provides a 4 mA signal to the economizer which translates to not OK to economize and the outdoor damper drives to minimum position. The C7660 temperature sensors replace the control function of the temperature changeover in the economizer control.

The A-B-C-D potentiometer on the economizer does not control the changeover point when a C7660 sensor is used in place of an enthalpy sensor. For single dry bulb set the potentiometer to D. The factory default switch setting is 63°F. The changeover temperature can be field set by changing the positions of the switches using Fig. 7.

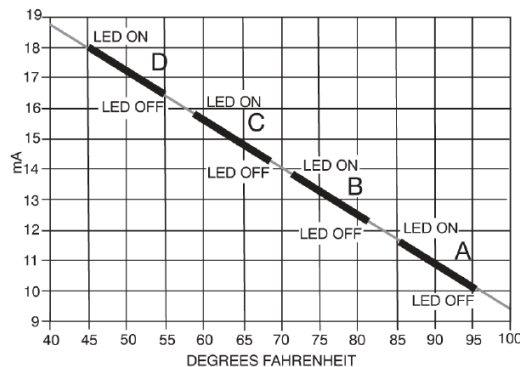


Fig. 5 — Outdoor Air Changeover Temperature



Fig. 6 — C7660 Temperature Sensor

CONFIGURATION

Outdoor Dry Bulb Changeover

For this control mode, the outdoor temperature is compared to an adjustable set point selected on the control. If the outdoor air temperature is above the set point, the Economizers IV system will adjust the outdoor air dampers to minimum position. If the outdoor air temperature is below the set point, the position of the outdoor air dampers will be controlled to provide free cooling using outdoor air. When in this mode, the LED next to the free cooling set point potentiometer will be on.

Outdoor Air Sensor

The C7660 Dry Bulb sensor has three dip switches that are used to set the change over temperature to meet the application. The factory default setting is 63°F. There are two changeover strategies available: exclusive

operation where you can have either mechanical cooling or economizer but not both simultaneously (Single Stage Thermostat) or integrated operation, where the economizer and mechanical cooling can operate simultaneously, requires the use of a two stage thermostat.

Figure 7 lists the changeover switch set point. With the power off, set the switches to the appropriate temperature required for application. Set the Free Cooling/Enthalpy Changeover Set Point Potentiometer to “D” located on the face of the economizer control.










DIP SWITCH POSITION	CHANGEOVER TEMPERATURE
ON OFF  1 2 3	48°F
ON OFF  1 2 3	53°F
ON OFF  1 2 3	55°F
ON OFF  1 2 3	58°F
ON OFF  1 2 3	63°F
ON OFF  1 2 3	68°F
ON OFF  1 2 3	73°F
ON OFF  1 2 3	78°F

Fig. 7 — Changeover Switch Set Points

Documents / Resources

	<p>Honeywell HH57AC080 Temperature Sensor [pdf] Instruction Manual HH57AC080, Temperature Sensor, HH57AC080 Temperature Sensor, Sensor</p>
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