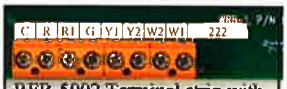
SDRF1001 Commercial Setback on Demand RF Thermostat

Installation, Setup and Operation Instructions for use with RFR-5002 Relay.

Installation:

Select system using System Selection Chart. Remove the matching terminal designator label strip from the terminal designator sheet, and apply it to the terminal strip as shown to the right to the RFR-5002 terminal strip. Follow instructions for installing RFR-5002 Relay.



RFR-5002 Terminal strip with Model 222 label installed.

Mounting:

Mount the rear housing of thermostat on the wall 5 feet from the floor on an inside wall, away from drafts and sources of false heat such as lamps, computer monitors etc… Install front case to back. Install 3 AA batteries into the battery drawers. Slide battery drawer into the bottom of the case.

Press and hold buttons labeled MODE, FAN, and ECON/ COMF for 5 seconds.

Press and hold these 3 buttons.

Setup:

To activate the customization menu, press and hold the Mode, Fan, and Econ/Comf buttons until the display changes to the customization menu. To advance through the menus press MODE. To exit the menu press ECON/COMF.

Display indicates System 222 has been selected.

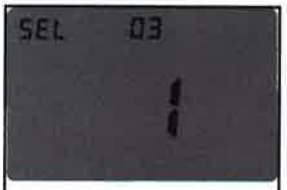
To select System Selection. Menu: SEL 01

Press the Up or Down arrow to select your system. Set to match terminal label used on the RFR-5002 Relay. Once set, press MODE to advance to next menu.

The Display indicates that the Comfort Timer is set to 60 minutes. (default)

To select Comfort Mode Timer. Menu: SEL 02

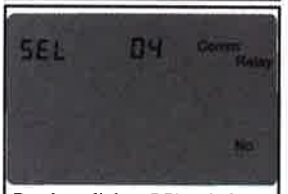
The comfort mode timer determines how long the "Setback on Demand" thermostat will stay in the comfort mode after motion has been detected. SEL 02, 60 (default) should be displayed. Use the Up arrow to increase or the Down arrow to decrease the amount of time the thermostat will stay in the comfort mode after motion has been detected. Once set press MODE to advance to next menu.



The Display indicates motion activity is set to 1. (default)

To select Motion Activity menu SEL 03

The Motion Activity selection allows you to set how much motion is required to switch from Economy to Comfort. A setting of 1 will switch to comfort as soon as any motion has been detected. A higher setting requires more activity. Once set press MODE to advance to next menu.



Ready to link to RFR-5002

To Select RF Connection Option. Menu SEL 04 (RF Version Only)

If the RF thermostat is shipped with the RF relay as a package, these have already been linked at the factory, and this process is not required.

To link to an RF relay, confirm power has been applied to the relay board. Press and hold link button on the relay board for 3-5 seconds, and release. The LED will light and stay lit during the linking process.

If thermostat is no longer in the customization menu, press and hold the Mode, Fan, and Econ/Comf buttons for about 5 seconds to enter the Customization Menu. Press the Mode button three times to advance to SEL 04. The display will show "SEL 04", "Comm Relay no", or "Comm Lost Relay". Press the Up Arrow once to link. Once set press MODE to advance to next menu.

Columbus Electric div of TPI Corporation 114 Roscoe Fitz Rd. Gray, TN 37615 – Tel: 423-477-4131 - Fax: 423-477-0084

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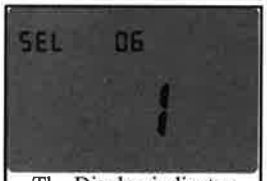
To select Test Mode SEL t

The Test Mode allows you to bypass the protection delays for 10 minutes. If thermostat is no longer in the customization menu, press and hold the Mode, Fan, and Econ/Comf buttons for 5 seconds. Press the Mode button four times to advance to "SEL t". Press the up arrow once to activate test mode. The word "on" will appear under the "SEL t". After 10 minutes delays will reactivate.

Test Mode

To select the Deadband menu SEL 06

The Deadband determines how much ambient temperature change is required before the system will switch from Heating to Cooling or vice-versa. The factory setting is 1 but is adjustable from 1 to 5 in one degree increments



The Display indicates Deadband is set to 1.

Set Mode:

Press MODE button to advance through the system selections. Option will vary depending on your system.

Set Comfort Temperature:

Use the MODE button to select either heat or cool. Use the up and down arrows to set the desired Comfort Temperature.

Heat Mode

Set Economy Offset:

To adjust the amount of Offset use the slide control. Raise the slide to increase the amount of offset and lower the slide to reduce the offset. Note: In heat mode economy is lower than comfort temperature, in cool mode it will be higher than comfort temp..

Auto will switch between heat and cool based on need

Auto Changeover:

The "Setback on Demand" thermostat incorporates a new type of Auto Changeover that protects your system regardless of temperature settings. After you have set your comfort temperatures, use the mode button to show Auto. The thermostat will automatically switch between heat or cool as required by your settings.

Comfort Flashes when setting Comfort Temperature. Economy Flashes when setting the Economy Offset.

Fan:

The Fan button will cycle through Auto Fan or Fan On. If your system does not incorporate a fan controlled by the thermostat the display will indicate No Fan.

Sensor: On/Off switch

The Sensor switch should be in the on position for the SD thermostat to automatically switch between modes based on occupancy. In the off mode, the SD will not switch between Comfort and Economy automatically.

Keypad locks prevents changing any of the settings.

Locking the Keypad:

The "SD" thermostat can lock all of it's settings. To lock wait until backlight is off. Press and hold both Arrow buttons. While still holding buttons press the Mode button. Keypad Off will appear.. To unlock, repeat.

Celsius:

To change from Fahrenheit to Celsius, place the mode to off, then press and hold the up and down arrows for 5 seconds. Follow the same procedure to change back.

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FCC/Intertek information

Caution: Changes or modifications not expressly approved by TPI Corporation could void the user's authority to operate this equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and the receiver.

Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experience radio/TV technician for help.

FCC ID:ZIN-58815002 Model: RFR-5002
IC ID: 9673A-58815002

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC ID:ZIN-05236502 Model: SDRF1001
IC ID: 9673A-5236502

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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