

Temperature Alarm Accessory for REF and FZR Series

Order parts online
www.follettice.com

Installation Instructions

Materials supplied

- (1) Alarm module
- (1) 4" stainless probe with 8 ft cable
- (1) Short length of Tygon tubing (for FZR applications only)
- (1) Power supply with 5 ft cord
- (1) Probe bottle with internal gasket and screw-on cap
- (2) Bottle bracket (long and short)
- (1) 9-volt battery

Procedure

1. Remove 2 screws from module face and remove faceplate.
2. Install 9-volt back-up battery.
3. Locate DIP switches on the back of the faceplate (Fig. 1).
4. Review the factory DIP switch settings (Fig. 2) and make any changes required to meet the needs of your specific application.
5. Reinstall faceplate.

Fig. 1

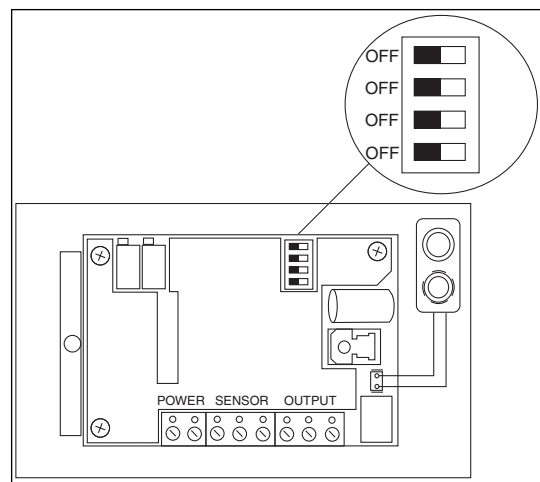


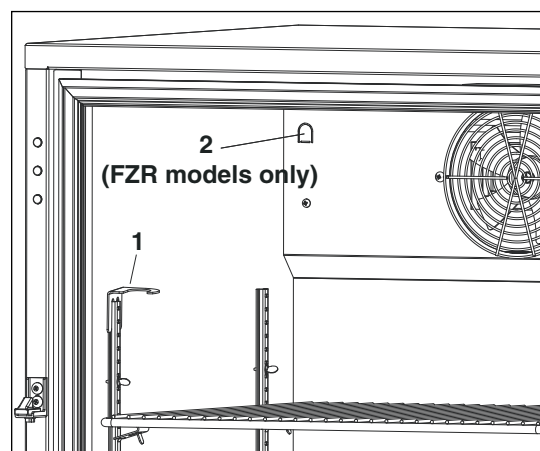
Fig. 2

Dip Switch	OFF (factory default setting)	ON
1	No alarm delay	45 minute alarm delay
2	Auto reset (alarm stops automatically as soon as temperature returns to set range)	Manual reset of alarm (user must press RESET button to stop audible alarm even if temperature has returned to set range)
3 & 4	Audible alarm on (no snooze with both off)	No audible alarm
3	Enables 5 min alarm "snooze" when reset button is pressed (3 off with 4 on)	Enables 45 min alarm "snooze" when reset button is pressed (3 on with 4 off)

Installing alarm

1. Mount alarm in desired location with screws (supplied by others) through back of housing. Do not place undue strain on probe cable.
 - Note:** Do not modify length of probe wire. Probe will not measure temperature correctly if wire length is changed.
2. Plug power cord into 110 outlet.
3. Push center tab of short bottle bracket into top of front left pilaster (Fig. 3.1).
 - Note:** It may be necessary to use longer bottle bracket if shelf is positioned at very top of cabinet.
4. Fill bottle with solution used at your facility (e.g. 50/50 propyleneglycol/water solution) to increase accuracy of readings by simulating the internal temperature of stored product.
5. Insert bottle into bottle bracket.
6. **FZR4-ADA and FZR5 freezers only**
 - a. Use flat-head screwdriver to open small knock-out in upper left corner of back wall inside cabinet (Fig. 3.2).

Fig. 3



- b. Insert 1/2" of probe end into supplied Tygon tubing.
 - c. From cabinet back, push open end of tubing through refrigerant port and knock-out hole.
 - d. Remove Tygon tube from probe end and discard tubing.
7. **REF4-ADA and REF5 refrigerators only**
- a. Route probe through grommeted hole in back of refrigerator where refrigeration lines enter the cabinet.
8. **All models**
- a. Push probe down through gasketed bottle top and insert into bottle bracket.

Note: Alarm probe must be placed in bottle for proper system operation. Refer to Fig. 4 if attaching alarm to central monitoring or central alarm system. A SDPT 1 amp 24V AC resistive relay is provided for this connection.

Setting alarm temperatures

1. After the installation is complete, allow 30 minutes for the system to stabilize to ambient temperature.
2. Calibrate temperature alarm to refrigerator display
 - a. Calibration is best done with the alarm probe removed from the probe bottle and placed in the vicinity of the temperature controller probe. Allow at least 15 minutes for the probe temperature to stabilize.
 - b. Note the temperature value displayed on the refrigerator controller and subtract the temperature value displayed on the alarm. This value is the differential.

Example: Temperature controller: 36°F Alarm: 38°F
 Controller – Alarm = Differential 36 – 38 = -2

 - c. Press and release SET repeatedly until "CAL" is displayed (Fig. 5.1).
 - d. Press SET again to display "CAL" value (Fig. 5.1).
 - e. Press top or bottom of ADJUST arrow to display the calculated differential (-2°F in example above).
3. Set high alarm limit
 - a. Press and release SET repeatedly until "HSP" is displayed (Fig. 5.1).
 - b. Press SET again to display HSP value (Fig. 5.1).
 - c. Press top or bottom of ADJUST arrow until desired HSP value is displayed (Fig. 5.2).
4. Set low alarm limit
 - a. Press and release SET repeatedly until "LSP" is displayed (Fig. 5.1).
 - b. Press SET again to display LSP value (Fig. 5.1).
 - c. Press top or bottom of ADJUST arrow until desired LSP value is displayed (Fig 5.2).
5. Display will return to temperature display in approximately 15 seconds.
6. Place probe back in probe bottle.

Fig. 4

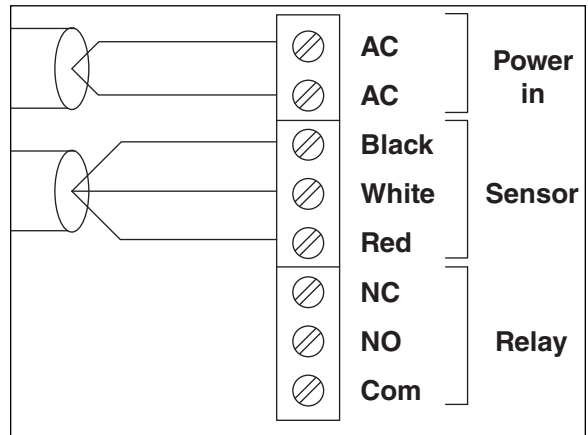
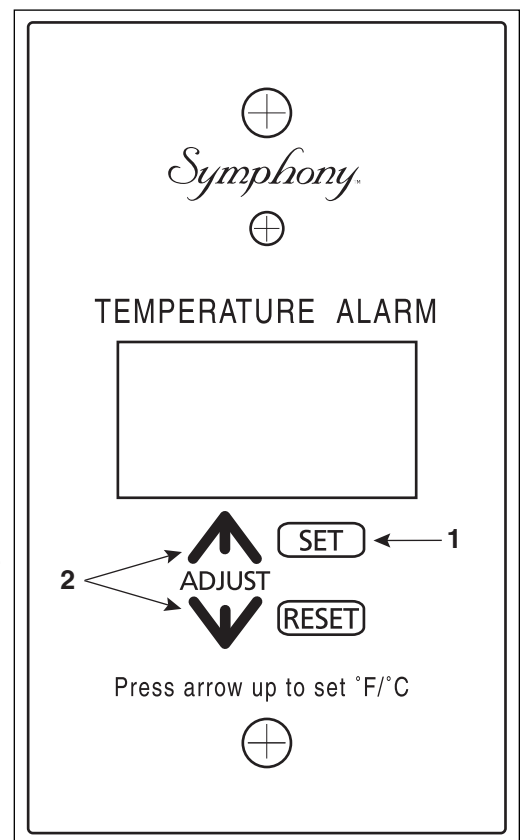


Fig. 5



Viewing high/low log

Follett's alarm module allows users to view the highest and lowest temperatures recorded since the last time the RESET button was pressed.

To view high and low log values

1. Press SET button until "HI" appears.
2. Press SET button to view HI log value.
3. Press SET button until "LOW" appears.
4. Press SET button to view low log value.
5. Press RESET button to clear log.

Alarm operation facts

The back-up battery will continue to provide alarm protection during power failure but will alarm ONLY if temperatures go out of the selected range. During power failure the alarm face will be dark but temperatures can be read by pressing the RESET button.

Low battery is indicated by 3 decimal points in temperature display (3.6.f.).

To see the highest or lowest temperature since last reset, press the button until "HI" or "LOW" appears. To clear log value, press RESET.

Because the temperature alarm display simulates the true temperature of stored medications rather than the air temperature inside the refrigerator, we suggest that staff refer to the alarm display to log temperatures for JCAHO compliance.

