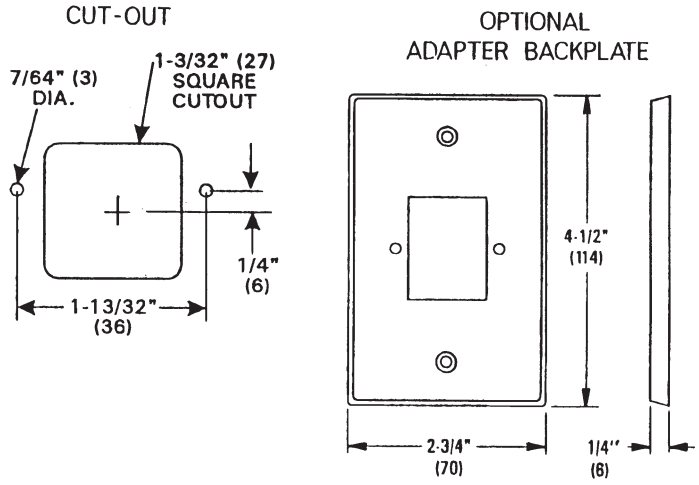
Installation Guide

Mounting

- Attach the optional adapter backplate (see the Accessories section) to a standard 2" x 4" (51 x 102 mm) handy box or directly to a hollow wall.
- Remove the cover and, using the two 6-20 self-threading screws (included), attach the thermostat to the backplate.

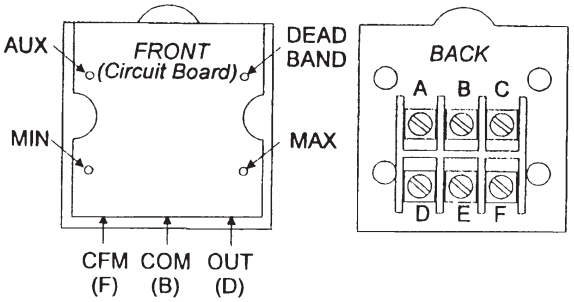


NOTE: See the data sheet for a complete listing of accessories as well as specifications.

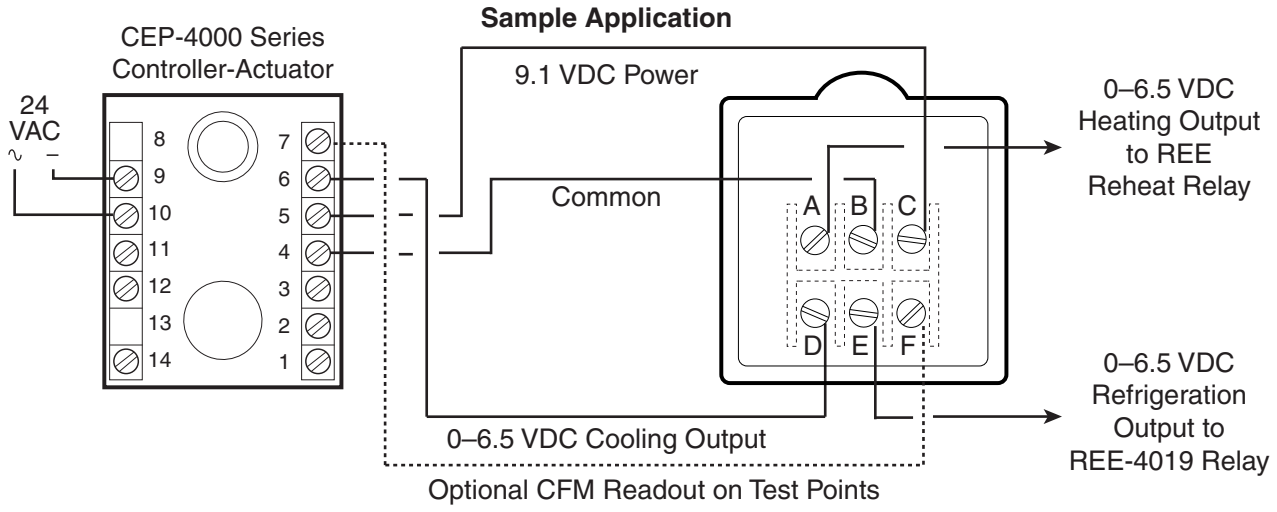
Connections and Wiring

See the diagrams below and on the next page.

- **Terminal A:** Connect to applicable **relay** for reheat control.
- **Terminal B**: Connect to the CEP/CSP-4xxx **Common** terminal **4**, jumper to "E" to cancel auxiliary control point.
- **Terminal C:** Connect to the CEP/CSP-4xxx **9.1 VDC** terminal **5**.
- **Terminal D:** Connect to the CEP/CSP-4xxx **In** terminal **6**.
- **Terminal E:** Connect to REE-4019 terminal "T" **OR** daisy chain other CTE-5003/5013 terminal "E" for averaging signal to REE-4019 refrigeration relay.
- **Terminal F**: Connect to the CEP/CSP-4xxx **Out** terminal **7** for flow readout at thermostat.



Sample Application



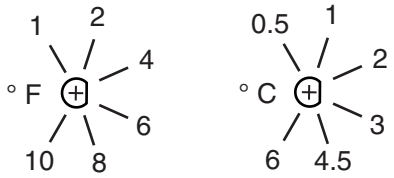
Adjustments and Calibration

Thermal calibration is not required. Minimum and maximum control points can be calibrated before or after the thermostat has been installed.

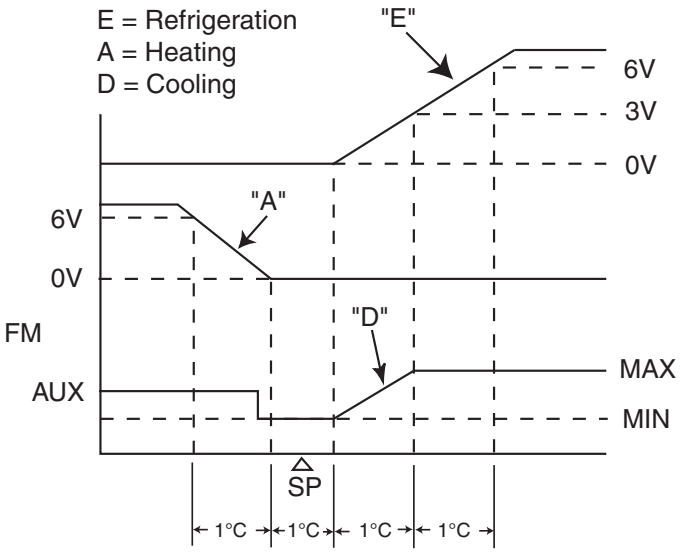
NOTE: In 2009, the boards were changed, and the new potentiometers can only be adjusted from the front of the board (instead of from both the front and the back as in the older boards).

To set the flow rates and the deadband:

1. Remove the cover by pulling up on it from the bottom.
2. With a voltmeter, measure the voltage between Common (B) and Out (D).
3. With a small Phillips screwdriver, turn the Auxiliary Flow pot full CCW (so that Auxiliary Flow should not be active).
4. Turn the setpoint dial to the highest (warmest) temperature, and adjust the Minimum Flow. Turning the pot CW increases the Minimum Flow.
5. Turn the setpoint dial to the lowest (coolest) temperature, and adjust the Maximum Flow (CW to increase). Always adjust Maximum Flow to a value higher than the Minimum Flow—if in doubt, turn Maximum Flow fully CW (increase) at the beginning of the adjustment.
6. Turn the setpoint dial back to the highest (warmest) temperature. If terminal E is jumpered to A, this will automatically trigger the Auxiliary Flow. If terminal E is connected to some other external triggering control, manually trigger it or temporarily jumper E to A.
7. Adjust the Auxiliary Flow (CW to increase).
8. Adjust the Deadband pot according to the illustration below or inside the front cover. The "flat" side of the pot is the "pointer."
9. Reinstall the cover.



Deadband Adjustment Pot



Maintenance

Careful installation will also ensure long-term reliability and performance. Remove dust accumulation as necessary from slots in top and bottom. Clean cover with a soft, damp cloth and mild soap.

Accessories

HMO-5001	Dual toggle bolt for backplate mounting to drywall
HMO-5014	Insulating stand-off, light almond
HMO-5016	Insulating stand-off, white
HMO-5036	Adapter backplate to vertical handy box, light almond
HMO-5037	Adapter backplate, vertical, white
HMO-5038	Adapter backplate to horizontal handy box, white
HMO-5039	Adapter backplate, horizontal, light almond
HPO-0031	Setpoint cover, white
HPO-0032	Setpoint cover, light almond
REE-4019	Relay, 3-stage refrigeration
XEE-4002	Power supply, 24 VAC to 9.1 VDC

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