Installation Guide

Mounting

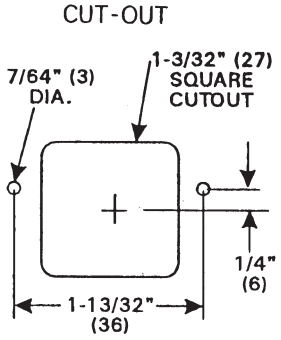
- Attach the optional adapter backplate (see Accessories) to a standard 2 x 4" (51 x 102 mm) handy box or directly to a hollow wall.
- Remove the cover and, using the two (included) 6-20 self-threading screws, attach the thermostat to the backplate.

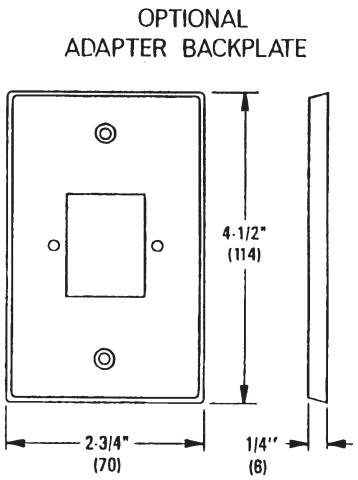
Connections and Wiring

- **Terminal A:** Connect to applicable **relay** for reheat control.
- **Terminal B**: Connect to the CEP/CSP-4xxx **Common** terminal **4**.
- **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:** Jumper to **A** for automatic initiation of auxiliary limit trigger, or jumper to **B** if auxiliary is not used.
- **Terminal F**: Connect to the CEP/CSP-4xxx **Out** terminal **7** for flow readout at thermostat.

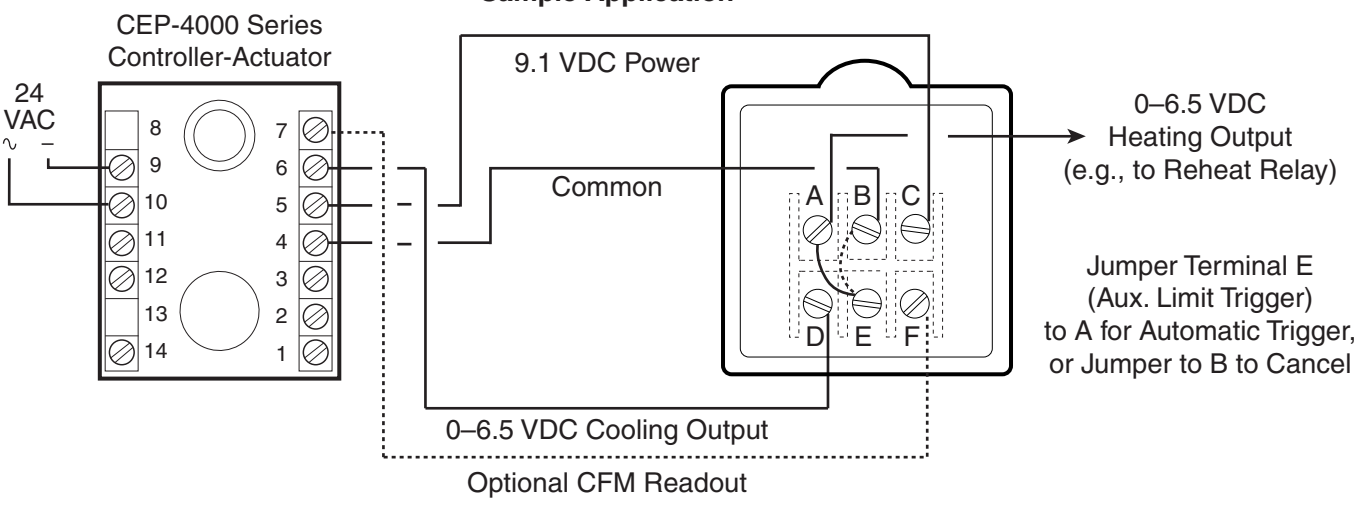
Accessories

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, vertical, white
HMO-5038	Adapter backplate to horizontal handy box, white
HMO-5039	Adapter, horizontal, light almond
XEE-4002	Power supply, 24 VAC to 9.1 VDC





Sample Application



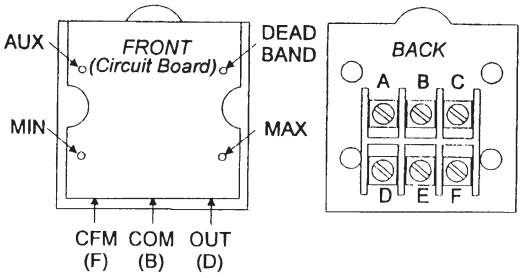
Adjustments and Calibration

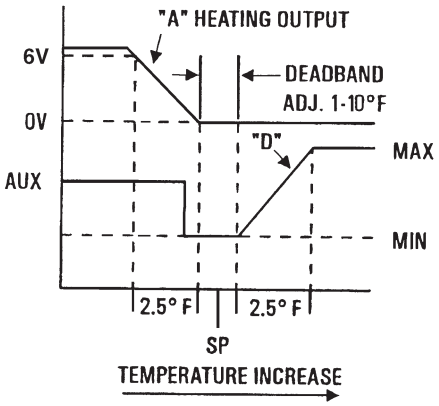
Thermal calibration is not required. Minimum and maximum control points can be calibrated before or after the thermostat has been installed.

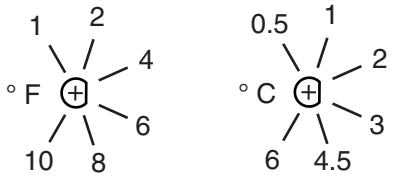
NOTE: In 2009, the boards were changed, and the new potentiometers can only be adjusted from the front of the board (instead of from both the front and the back as in the older boards).

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 to the right 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.

More Information

For additional accessories, specifications, and dimensions, see the CTE-5002/5012 Data Sheet.

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