

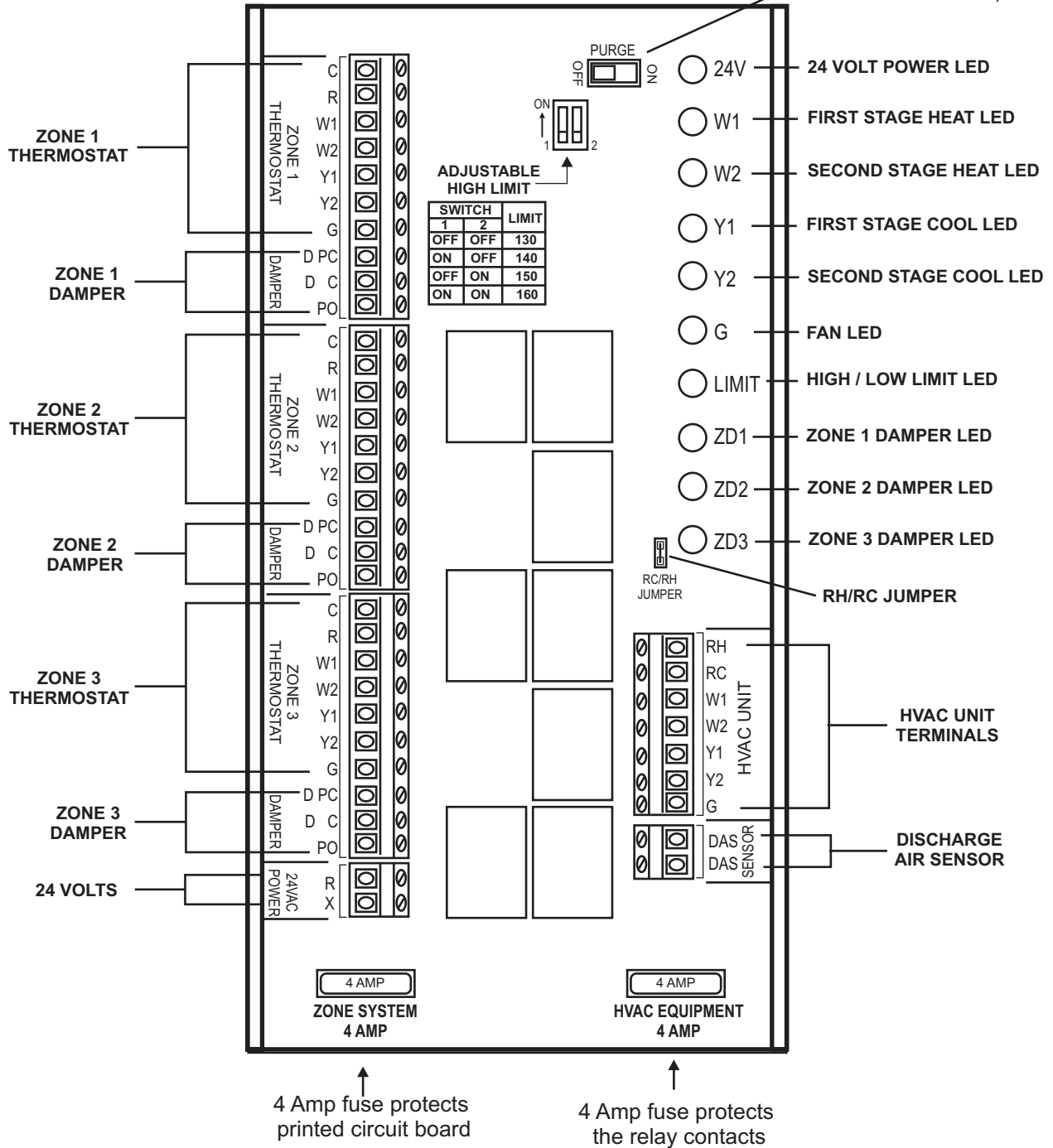


# CP-3-HC Installation and Operation Instructions

## 2 Heat / 2 Cool - Auto Changeover First Call

### Priority - Time Share

**PURGE SWITCH**  
 (When set to ON, fan will continue to run and air will be purged to last zone calling for 1 minute after call is satisfied)



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#### Installation

##### Mounting the Panel:

Carefully remove the CP-3 panel and cover from the shipping carton. Slide the PC board out of the snap track base and mount the base to a flat surface either on or near the HVAC indoor unit in an area that will facilitate easy access for wiring. Reinstall the PC board by carefully centering it over the base and snapping it back into the track grooves.

##### Wiring the Zone Thermostats and Dampers:

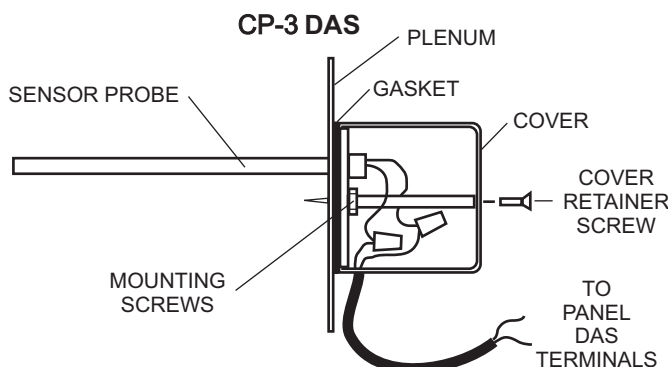
Refer to the logic panel wiring diagram. Wire zone 1 thermostat and its associated damper to the ZONE 1 terminals on the logic panel. Wire zone 2 and 3 thermostats and dampers in the same manner.

##### Wiring the HVAC Equipment:

Wire the HVAC unit to the panel terminals. Do not wire the equipment common to the CP-3 panel.

##### Installing and Wiring the CP-3 DAS Discharge Air Sensor:

Drill a ½" hole in the middle of the main discharge air plenum approximately 18" downstream of the heat exchanger. Remove the CP-3 DAS cover. Slide the probe into the hole and use two self-tapping sheet metal screws to secure the base making sure that the gasket is in place. Use 18-2 thermostat wire and wire nuts to attach the sensor leads. Replace the cover and wire the sensor to the DAS terminals on the CP-3 panel.



##### Wiring the Transformer:

Wire a separate 24 Volt transformer of the proper VA to the logic panel terminals marked (X) and (H). Do not power the panel up until all wiring is completed.

##### Test, Check and Startup:

1. Verify that all component wires have been connected to the proper terminals and are secure.
2. Disconnect the HVAC equipment (R) terminal wire at the panel and apply 24 Volts to panel.
3. Take a jumper wire and momentarily short the DAS terminals. This will put the panel's time delays in "speed up" mode.
4. Place the zone thermostats in the OFF position.
5. Place zone 1 thermostat in the heating mode and have the thermostat call for heat. Confirm that (ZD1) LED is ON and that (W) LED is ON. Confirm that zone 1 damper is open and zone 2 and 3 dampers are closed. There will be no voltage across zone 1 (D) and (D) terminals and 24 volts on zone 2 and 3 (D) and (D) terminals.
6. Put zone #1 thermostat in the cooling mode and have the thermostat call for cooling. Confirm that (ZD1) LED is ON and that the (Y) and (G) LEDs are ON. If the thermostat has internal time delays, the cooling call may not activate immediately.
7. Turn zone 1 thermostat off and repeat steps 5 and 6 with the zone 2 and 3 thermostat. Remember, the zone calling will have its damper open and there will be no voltage on the (D) and (D) terminals for that zone.
8. Determine the ventilation mode of each zone thermostat by setting the thermostats in the Fan AUTO or ON mode.
9. Remove 24 Volts to the panel and reconnect the HVAC (R) wire.
10. When 24 Volts is again applied to the panel, the internal time delays will be activated.
11. Confirm that the LIMIT LED is ON. If not, check LIMIT wiring. If the system goes out on high or low limit, the LIMIT LED will blink.

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#### Specifications

##### Panel Dimensions:

Height: 8.0 Inches  
 Width: 6.0 Inches  
 Depth: 1.375 Inches

##### Mounting:

Snap Track with 2 back plate screws

##### Operating Temperature Rating:

-40° F to 150° F

##### Operating Humidity:

5% to 90% RH non-condensing

##### Wiring:

18-gauge wire for all equipment and system connections

##### Time Delays:

3 minutes minimum off between cooling calls  
 3 minutes minimum off on low limit  
 20 minute time share  
 Purge ON = 1 minute

##### Thermostats:

Single or multi-stage heat / cool  
 Programmable or non-programmable  
 Auto or manual changeover

#### Terminal Designations

##### Thermostats:

C 24Vac (Common)  
 R 24Vac (Hot)  
 W1 First Stage Heat  
 W2 Second Stage Heat  
 Y1 First Stage Cool  
 Y2 Second Stage Cool  
 G Fan

##### Dampers:

D PC Powered Closed  
 D C Common  
 PO Powered Open

##### High / Low Limit

DAS Discharge Air Sensor  
 DAS (2 wire)

##### HVAC Equipment:

RH 24Vac Heating Transformer  
 RC 24Vac Cooling Transformer  
 W1 First Stage Heat  
 W2 Second Stage Heat  
 Y1 First Stage Cool  
 Y2 Second Stage Cool  
 G Fan

##### Panel Power:

R 24Vac (Hot)  
 X 24Vac (Common)

