

ZONE CONTROL PANEL

The ZP3-ESP is a 3 zone panel that integrates award winning ESP technology to completely eliminate the need to install a bypass damper. This 3H/2C zone panel comes with a static pressure sensor. The system works like any standard zone control system with one exception; a static pressure sensor continuously monitors the system static pressure. If the static pressure goes above setpoint, the ESP panel will power the selected non-calling zone dampers open just enough to relieve the excess pressure. Tests indicate that bleeding a small amount of conditioned air for a short time into non-calling zones has little to no impact on the zone temperature.

The panel can be used with single-stage, multi-stage, heat pump or dual fuel equipment. A wide range of control options provide ultimate application flexibility including adjustable high/low limits, adjustable high/low balance point, and 2nd stage capacity control.



Also available as kit including:

- ✓ Zone Panel
- ✓ Static Pressure Sensor
- ✓ Discharge Temperature Sensor
- ✓ 40VA Transformer

NO BYPASS REQUIRED!

Features and Benefits:

- 3 zone universal panel with ESP capability
- Smallest universal panel offered by iO
- Up to 2H/2C conventional or 3H/2C heat pump and dual fuel
- Auto changeover
- First call priority with time share
- 2nd stage capacity control
- Purge cycle option
- Adjustable high and low limits
- Adjustable high and low balance points
- Easy switch configuration
- Fused protected inputs and outputs

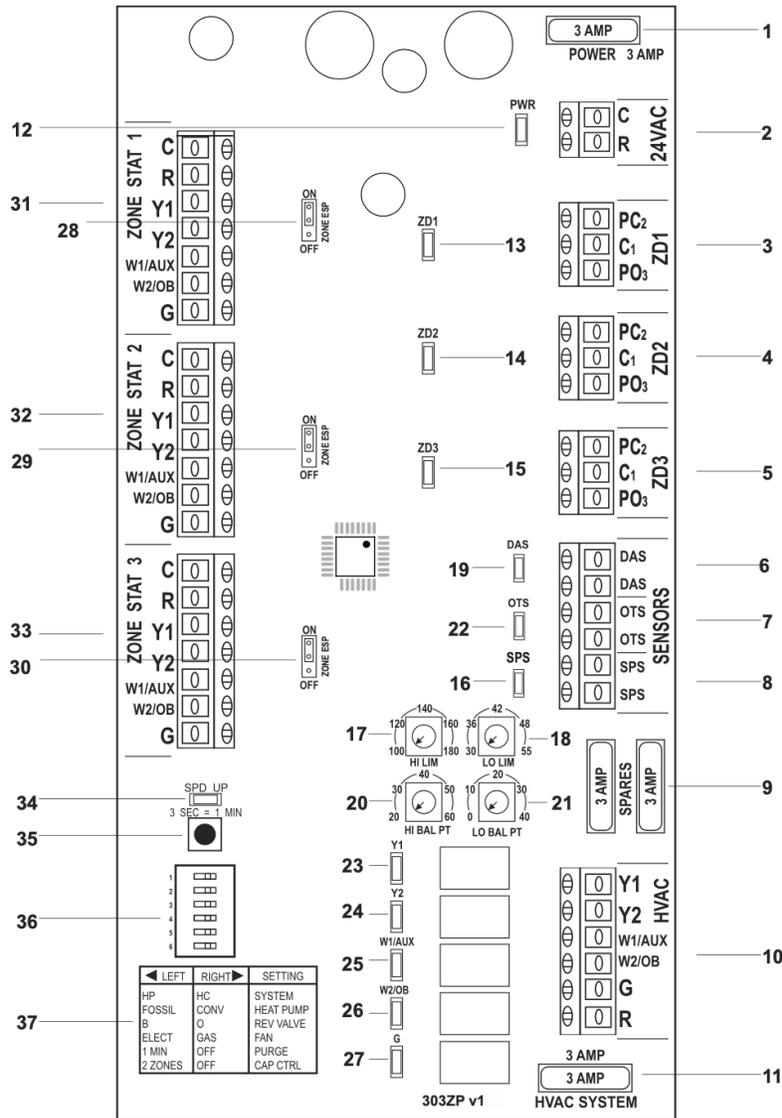
Warranty:

- 10 Years

Specifications:

Construction	ABS plastic enclosure with snap-on panel cover
Mounting	Snap track with 2 back plate screws
Dimensions	9.5" Height x 6.75" Width x 2.25" Depth
Operating Temperature	-40° F to 150° F
Time Delays	5 minutes between heating and cooling calls; 3 minute off on low limit 20 minute time share

BOARD DIAGRAM



1. 3 AMP FUSE PROTECTS PRINTED CIRCUIT BOARD
2. 24 VOLT TRANSFORMER TERMINALS
3. ZONE 1 DAMPER TERMINALS
4. ZONE 2 DAMPER TERMINALS
5. ZONE 3 DAMPER TERMINALS
6. DISCHARGE AIR SENSOR TERMINALS
7. OUTDOOR TEMPERATURE SENSOR TERMINALS
8. STATIC PRESSURE SENSOR TERMINALS
9. SPARE 3 AMP FUSES
10. HVAC EQUIPMENT TERMINALS
11. 3 AMP FUSE PROTECTS THE RELAY CONTACTS
12. PANEL POWER LED
13. ZONE 1 LED
14. ZONE 2 LED
15. ZONE 3 LED
16. SPS LED
17. HIGH LIMIT POTENTIOMETER
18. LOW LIMIT POTENTIOMETER
19. DISCHARGE AIR SENSOR LED
20. HIGH BALANCE POINT POTENTIOMETER
21. LOW BALANCE POINT POTENTIOMETER
22. OUTDOOR TEMPERATURE SENSOR LED
23. Y1 RELAY LED
24. Y2 RELAY LED
25. W1/AUX LED
26. W2/OB LED
27. G LED
28. ZONE 1 BYPASS JUMPER
29. ZONE 2 BYPASS JUMPER
30. ZONE 3 BYPASS JUMPER
31. ZONE 1 THERMOSTAT TERMINALS
32. ZONE 2 THERMOSTAT TERMINALS
33. ZONE 3 THERMOSTAT TERMINALS
34. TIME DELAY SPEED UP LED
35. TIME DELAY SPEED UP BUTTON
36. SYSTEM CONFIGURATION SELECTOR SWITCHES
37. SYSTEM CONFIGURATION SWITCH DEFINITIONS



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