

ZONE CONTROL PANEL

The ZP4-ESP is a 4 zone panel that integrates our 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 2 zone, 2nd stage capacity control.



Also available as kit including:

- ✓ Zone Panel
- ✓ Duct Temperature Sensors
- ✓ Static Pressure Sensor
- ✓ 40VA Transformer

NO BYPASS REQUIRED!

Features and Benefits:

- 4 zone universal panel with ESP capability
- Up to 2H/2C conventional or 3H/2C heat pump and dual fuel
- Auto changeover
- First call priority with time share
- 2 zone, 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

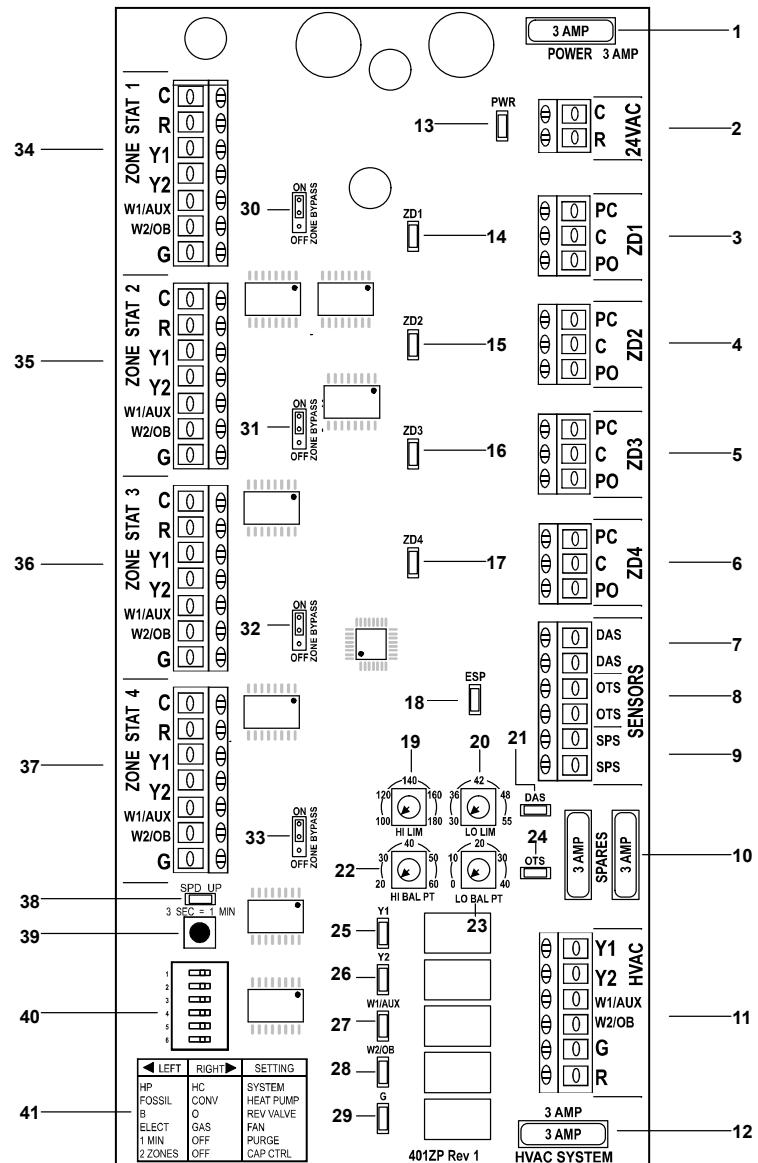
Static pressure sensor & panel cover included

*For ESP functionality, 3-wire MD dampers and static pressure sensor must be used

Specifications:

Construction	Plastic ABS enclosure with snap-on panel cover
Mounting	Snap track with 2 back plate screws
Dimensions	8.75" Height x 7" Width x 1.5" Depth
Operating Temperature	-40° F to 150° F
Time Delays	5 minute changeover; 3 minute off on high or low limit 20 minute time share
Discharge Air Limits	Low Limit (30° F to 55° F); High Limit (100° F to 180° F)

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