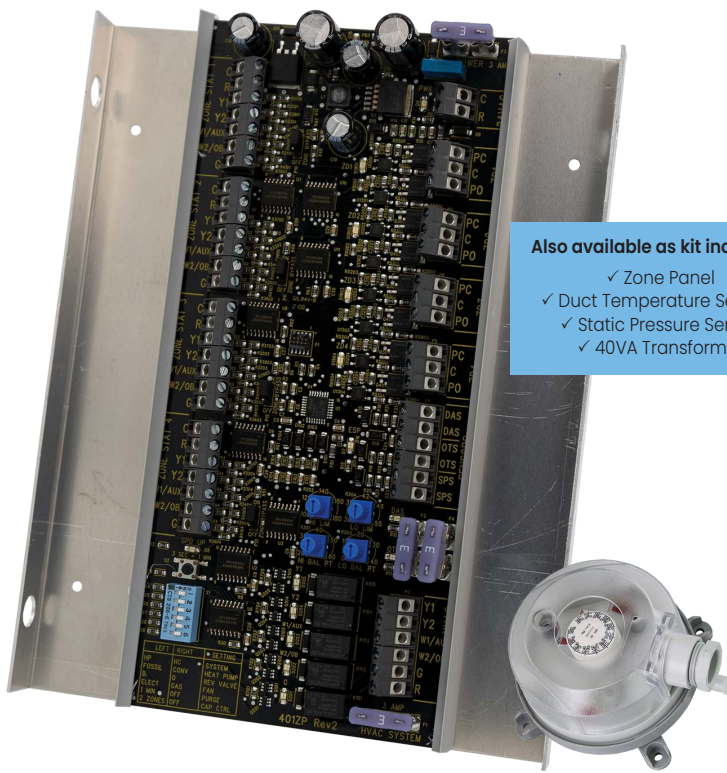


ZONE CONTROL PANEL

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.



NO BYPASS REQUIRED!

Features and Benefits:

- 4 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
- 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:

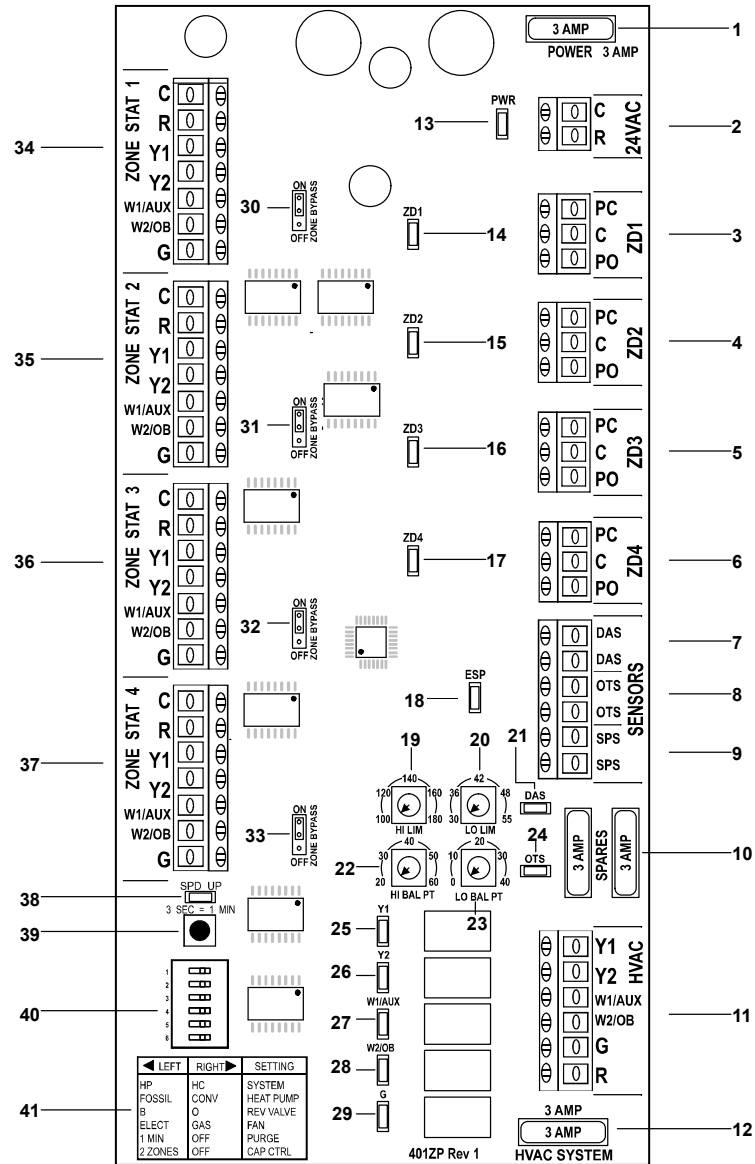
Construction	Aluminum enclosure with snap-on panel cover
Mounting	Snap track with 2 back plate screws
Dimensions	8.75" Height x 7" Width x 1.5" Depth
Operating Temperature	-40° F to 150° F
Time Delays	5 minute changeover; 3 minute off on high or low limit 20 minute time share
Discharge Air Limits	Low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



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BOARD DIAGRAM



- | | |
|---|---|
| <ol style="list-style-type: none"> 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 | <ol style="list-style-type: none"> 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 |
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