

# ESP 4 Zone Panel

## Zone Control Panel

ZP4-ESP



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.

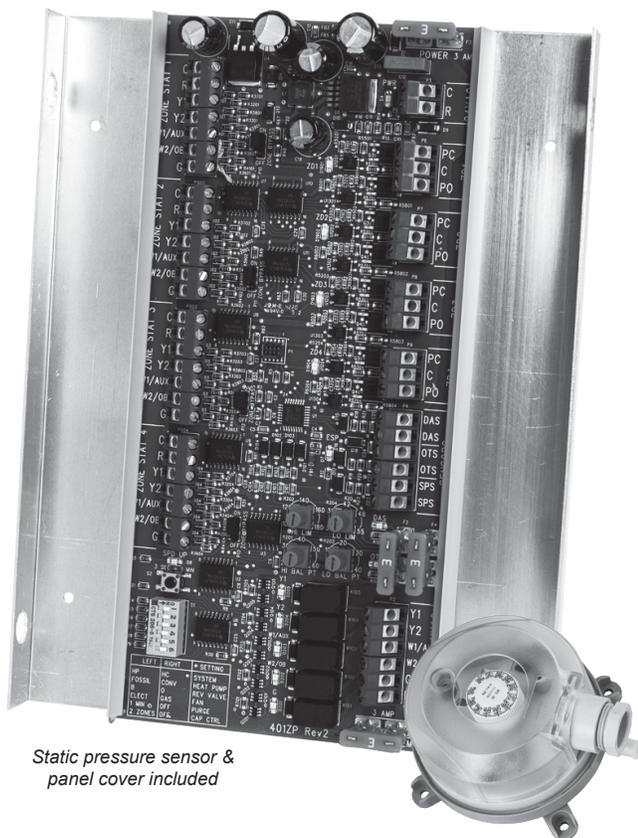
The panel can be used with single-stage, multi-stage, heat pump or dual fuel equipment. A wide range of control options provide ultimate application flexibility including adjustable high/low limits, adjustable high/low balance point, and 2 zone, 2nd stage capacity control.

## 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
- Works with 2 or 3 wire zone dampers\*

**Warranty:** 10 years



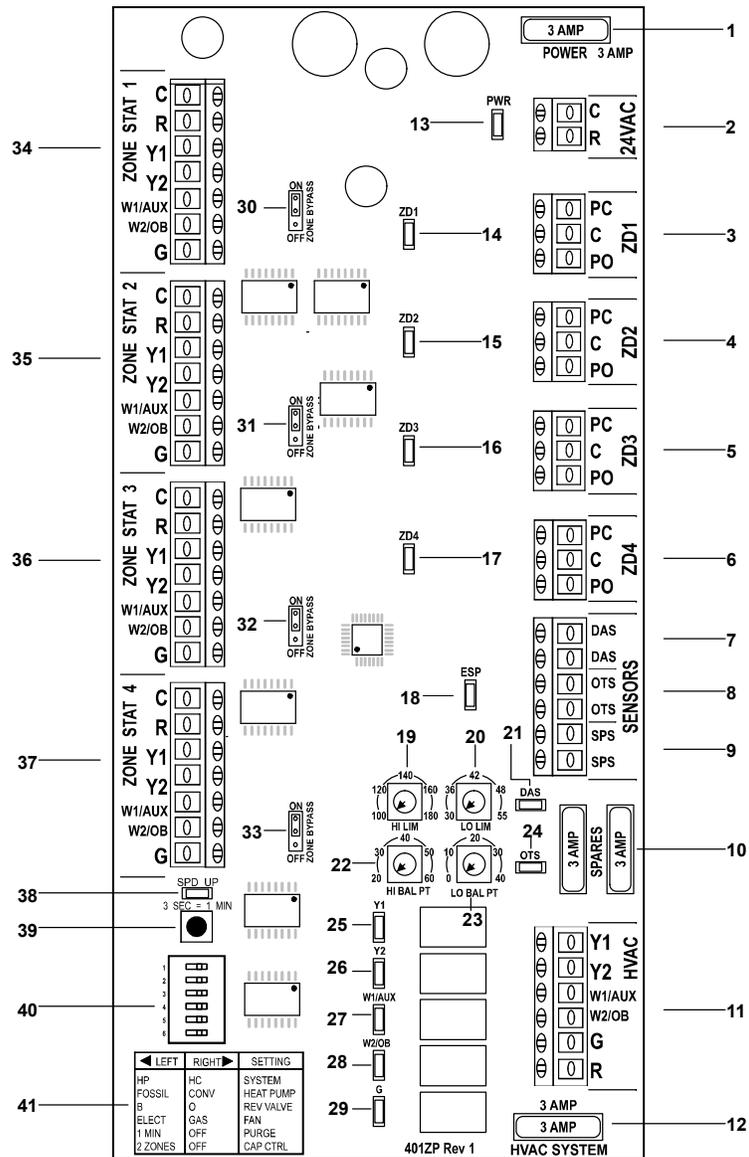
Static pressure sensor & panel cover included

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

### Specifications:

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

# BOARD DIAGRAM



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| <ol style="list-style-type: none"> <li>1. 3 AMP FUSE PROTECTS PRINTED CIRCUIT BOARD</li> <li>2. 24 VOLT TRANSFORMER TERMINALS</li> <li>3. ZONE 1 DAMPER TERMINALS</li> <li>4. ZONE 2 DAMPER TERMINALS</li> <li>5. ZONE 3 DAMPER TERMINALS</li> <li>6. ZONE 4 DAMPER TERMINALS</li> <li>7. DISCHARGE AIR SENSOR TERMINALS</li> <li>8. OUTDOOR TEMPERATURE SENSOR TERMINALS</li> <li>9. STATIC PRESSURE SENSOR TERMINALS</li> <li>10. SPARE 3 AMP FUSES</li> <li>11. HVAC EQUIPMENT TERMINALS</li> <li>12. 3 AMP FUSE PROTECTS THE RELAY CONTACTS</li> <li>13. PANEL POWER LED</li> <li>14. ZONE 1 LED</li> <li>15. ZONE 2 LED</li> <li>16. ZONE 3 LED</li> <li>17. ZONE 4 LED</li> <li>18. ESP LED</li> <li>19. HIGH LIMIT POTENTIOMETER</li> <li>20. LOW LIMIT POTENTIOMETER</li> <li>21. DISCHARGE AIR SENSOR LED</li> </ol> | <ol style="list-style-type: none"> <li>22. HIGH BALANCE POINT POTENTIOMETER</li> <li>23. LOW BALANCE POINT POTENTIOMETER</li> <li>24. OUTDOOR TEMPERATURE SENSOR LED</li> <li>25. Y1 RELAYS LED</li> <li>26. Y2 RELAY LED</li> <li>27. W1/AUX LED</li> <li>28. W2/OB LED</li> <li>29. G LED</li> <li>30. ZONE 1 BYPASS JUMPER</li> <li>31. ZONE 2 BYPASS JUMPER</li> <li>32. ZONE 3 BYPASS JUMPER</li> <li>33. ZONE 4 BYPASS JUMPER</li> <li>34. ZONE 1 THERMOSTAT TERMINALS</li> <li>35. ZONE 2 THERMOSTAT TERMINALS</li> <li>36. ZONE 3 THERMOSTAT TERMINALS</li> <li>37. ZONE 4 THERMOSTAT TERMINALS</li> <li>38. TIME DELAY SPEED UP LED</li> <li>39. TIME DELAY SPEED UP BUTTON</li> <li>40. SYSTEM CONFIGURATION SELECTOR SWITCHES</li> <li>41. SYSTEM CONFIGURATION SWITCH DEFINITIONS</li> </ol> |
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HVAC Controls

5351 East Thompson Road Suite 142  
 Indianapolis, IN 46237  
 P: 888.359.0362  
 F: 317.489.5204  
 info@iOhvaccontrols.com  
 www.iOhvaccontrols.com