

Models Pro211PD and Pro311PD

2 and 3-Zone Panels with Automatic Bypass Control

eControls

For Gas/Electric Equipment



The Pro211PD and Pro311PD are 2 and 3-Zone panels that automatically control bypass using the non-calling modulating zone dampers or an external modulating bypass damper and does not require installation of pressure sensors, bypass eliminator controls or special bypass dampers. The modulating dampers are accurately and automatically positioned by the panel for the correct bypass.

- ▶ Automatic bypass control eliminates the contractor having to set and test bypass operation.
- ▶ On-panel display for entering settings, testing installation and monitoring operation.
- ▶ Push-in terminals and plug&play dampers speed up installation and reduce wiring errors.
- ▶ Superior actuator with twice the torque and 4 times the operating life of a spring return actuator.
- ▶ “Quick Setup” option.
- ▶ Rapidly clone panels in the shop to eliminate field programming and errors.
- ▶ Lower costs than traditional low-end RNC panels.

Pat. Pend.



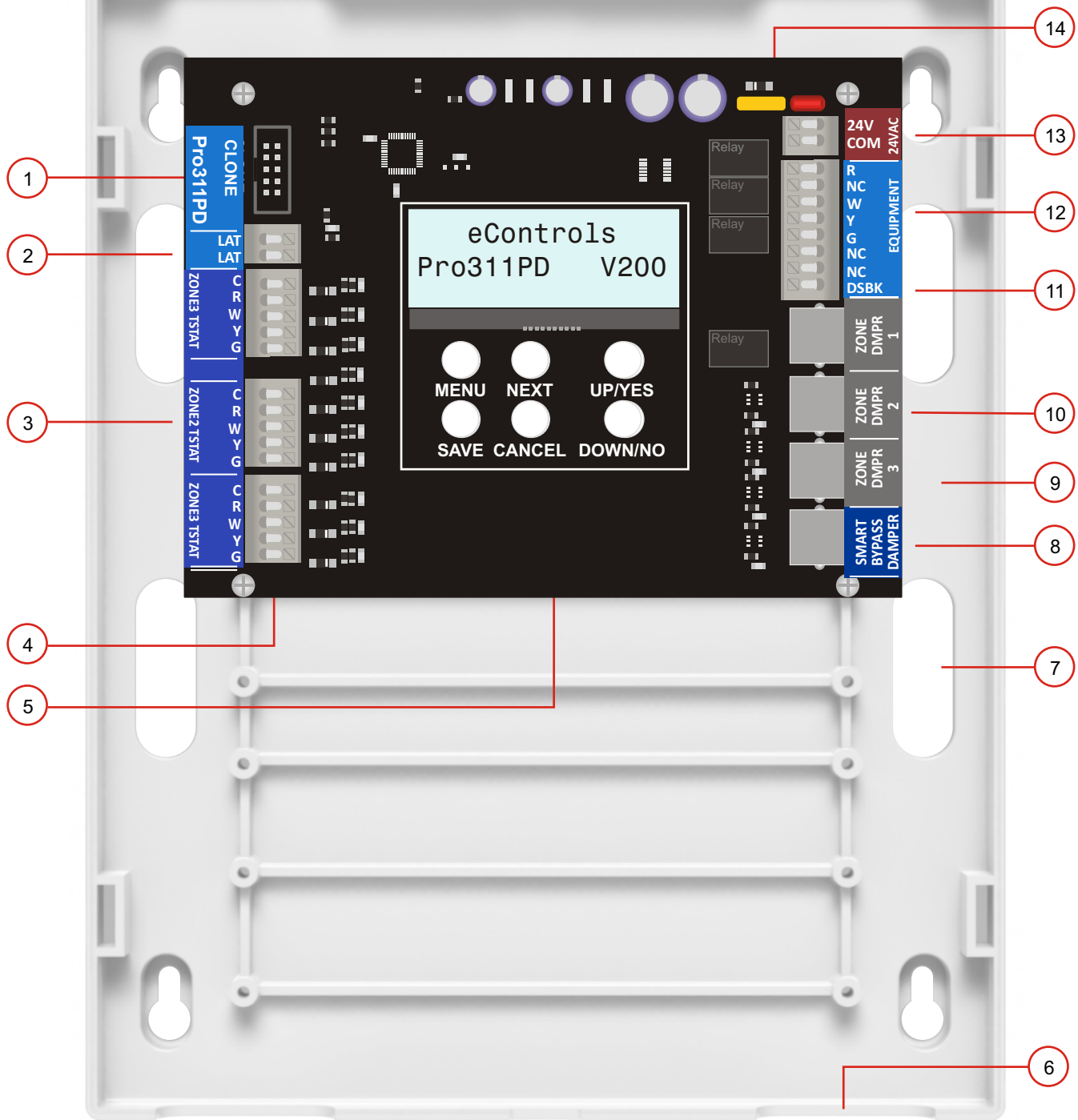
Pro311PD shown.

Provides the best comfort and lowest install cost.

Proudly designed, engineered
and assembled in the USA



Pro311PD Zoning Panel



- ① Connector for cloning panels with same options.
- ② Terminals for Leaving Air Temperature sensor for downstaging when limits are exceeded.
- ③ Terminals for Zone thermostats.
- ④ Terminals are push in, screwless type for easy wiring.
- ⑤ On panel, backlit, 2x16 character LCD for intuitive programming of options and displaying panel status.
- ⑥ Wiring access openings at top and bottom of case.
- ⑦ Wiring access openings so wiring can be run behind case.
- ⑧ Connector for external, modulating bypass damper controlled by panel.
- ⑨ Large channels for wiring.
- ⑩ Connectors for plug&play zone dampers.
- ⑪ DSBK terminal for operating fan in low speed when only one zone is calling.
- ⑫ Terminals for gas/electric equipment.
- ⑬ Terminals for 24VAC, 40VA transformer.
- ⑭ Automatic reset fuse.

Compatible Equipment

Gas/electric equipment with single-stage heating and cooling.

Compatible Zone Thermostats

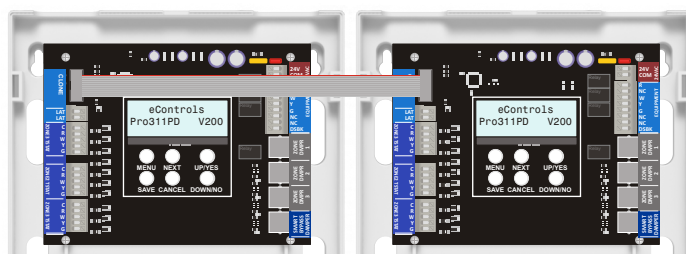
Any 24VAC heat/cool thermostat with W, Y and G outputs.

Automatic Bypass Control

The zoning panel provides Automatic Bypass Control using the non-calling, modulating zone damper to meet CA Title24 or using an external modulating bypass damper. The panel automatically positions the bypass damper based on the size of the zone dampers, the bypass damper size, which zones are calling and how much extra CFM is acceptable for the calling zones.

Cloning Panels

Cloning is a fast and simple way to transfer all the settings from one zoning panel to another panel in the shop or the field. Just connect the Cloning connectors on the two panels with the ribbon cable and select Cloning on the display.

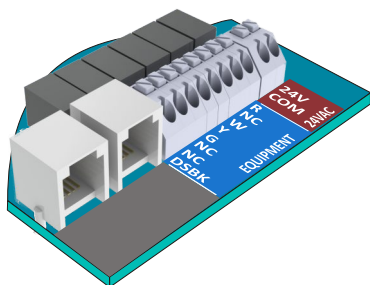


New Panel to be Cloned

Original Zoning Panel

Push-In Terminals

Push-in, screwless terminals and Plug&Play dampers speed up installation and eliminate wiring errors.



On-Panel LCD Display

Select "Quick Setup" or set options and display the operation of the equipment including call status, zone thermostat status, zone damper positions, bypass damper position and Leaving air temperature.



Modulating Dampers

Modulating dampers can be positioned in 2% steps by the panel for exact bypass control. The dampers provide twice the torque of a typical spring return damper actuator and use only 2VA when positioning and less than 1VA when holding position.



LEDs indicate when the damper is fully open or closed. Multiple dampers can be used to define a zone. Electronic motor control ensures long operating life – tested to over 9 million cycles. Cables for connecting the damper to the panel are provided with each damper.

Selecting Options

Use factory set options or use the keys and LCD display to select the options best suited to the installation.

- High and low temperature limits.
- Fan operation in gas heating.
- Purge operation
- Automatic changeover
- DSBK Option

Selecting Auto Bypass Options

The keys and the LCD display are used to select the bypass options and settings.

- Turn automatic bypass control on or off.
- Select bypass using the non-calling dampers or an external modulating bypass damper.
- Select the zone damper sizes.
- Select the allowed increased CFM for the calling zones.
- Set the external bypass damper size.

Competitive Zoning Panels

The Pro211PD and Pro311PD offer easier installation, lower cost and features not found in competitive zoning panels.

Honeywell
Models HZ211 and HZ311

AprilAire
Models 6202 and 6203

Zone First
Models MMP2 and MMP3

EWC Controls
Model NCM300

For installations using more than 3 zones or dual fuel heat pumps see the Pro432PD.

Ordering Information

Pro311PD

3-Zone Panel with Automatic Bypass Control for single stage Gas/Electric equipment.

For 3-zone, heat pump installations, see panels Pro321PD or Pro322PD.



Pro211PD

2-Zone Panel with Automatic Bypass Control for single stage Gas/Electric equipment.

For 2-zone, heat pump installations, see panels Pro221PD or Pro322PD.



Model TS2A

Leaving Air or Return Air Temperature Sensor. 2-Wire



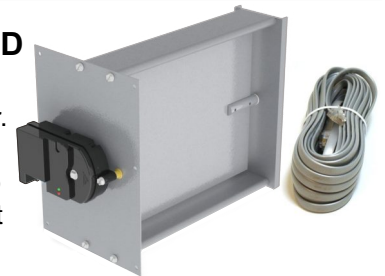
Model R80ZJ-XX

Round, Modulating, Plug&Play Sealed Damper. Includes 25' plug&play cable. Available in 6-20 inch diameters (XX).



Model RT80ZJ-HHxDD

Rectangular, Modulating, Plug&Play Sealed Damper. Includes 25' plug&play cable. Available in 8 x 8 to 20 x 16. Actuator on height side (first dimension).



Other Products



ZTWD11, ZTWD21 and ZTWD21WF

Thermostat with 2-Zone automatic comfort control, Eliminates bypass, LAT sensor and separate 24VAC transformer.



ZCDWLR

2-Zone automatic comfort control, Eliminates bypass, LAT sensor and separate 24VAC transformer.



ZCMWL

2-Zone manual comfort control, Eliminates bypass, LAT sensor and separate 24VAC transformer.

Where to Purchase

Available through distribution.

Contact Information:

949-916-0945
Sales@eControlsUSA.com

Visit eControlsUSA.com to see other 2-Zone Comfort Controls and Zone Panel solutions.

Limited 5-Year Warranty

The 5-year warranty is limited to the repair or replacement of defective product due to parts failure or defective workmanship.



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