

# Delphi Combustion System

## YP900 Delphi Combustion Efficiency Panel



Delphi Combustion Efficiency Panel is a packaged, pre-wired panel with integrated color touchscreen display, flame safeguard control, linkageless fuel/air ratio control, oxygen trim and VFD capability. Includes Hall-effect sensor which monitors VFD-driven blower and provides feedback to the control, certain models include the MF020-1-LC3 Oxygen sensor with mounting fitting and electrical connector. System is set-up entirely via the touchscreen interface.

- Works with a variety of burners and boilers
- Components housed in one panel
- Integrated flame safeguard control and linkageless fuel/air ratio control with oxygen trim
- Dual Fuels allowed with independent profiles
- Oxygen trim compensates for variable combustion air
- Certain models include high accuracy O2 sensor with quick response and open air calibration (MF020-1-LC3)
- VFD control capability (Honeywell NXL or NXS Series)
- Large color touchscreen interface
- Available actuators from 100 to 400 b-in. (ML7999B or Herculine 2001)
- Embedded software for commissioning, control and monitoring
- Dedicated actuator and VFD channels with feedback
- Up to 4 independently controlled actuators
- Firing rate/load control via temperature, pressure or manual operation
- 24 Vdc industrial panel PC control

**Operating Humidity Range:** 90% RH maximum, non-condensing

Product Number	Electrical Ratings	Frequency	Description
DSP3949/U	120 Vac	50 Hz; 60 Hz	Delphi Accessory Case
YP900A1004/U	120 Vac	50 Hz; 60 Hz	Combustion Efficiency Panel
YP900A1012/U	120 Vac	50 Hz; 60 Hz	Combustion Efficiency Panel - Less oxygen sensor
YP900B1002/U	220 Vac/120 Vac	50 Hz; 60 Hz	Combustion Efficiency Panel

## Herculine Actuator



Honeywell's Herculean® 2001 actuator are smart actuators used in applications requiring current proportional control or digital control. They offer digital electronics providing for precision positioning control, easy set-up and configuration, on board monitoring and network communications.

- 90 degree stroke
- 4-20mA input for use with Delphi
- 0-10 Vdc output for use with Delphi
- CCW rotation
- Modbus RTU RS485
- Includes local keypad/display for programming

**Vibration:** 0.0 to 0.5g continuous

**Operating Humidity Range:** 5 to 95% RH, non-condensing

Product Number	Electrical Ratings	Frequency	Description	Used With
2001-100-090-EC/U	120 Vac	50 Hz; 60 Hz	Herculine Actuator 100 lb-in torque, 12 second/90 degree	YP900
2001-200-090-EC/U	120 Vac	50 Hz; 60 Hz	Herculine Actuator 200 lb-in torque, 25 second/90 degree	YP900
2001-400-090-EC/U	120 Vac	50 Hz; 60 Hz	Herculine Actuator 400 lb-in torque, 50 second/90 degree	YP900