

AF900PC

Air/Fuel Ratio Controller



The AF-900PC Air/Fuel Ratio Control System utilizes heated O₂ sensors and full-authority fuel valve control to precisely maintain the air/fuel ratio of rich-burn carbureted gaseous fueled engines.

The AF-900PC Air/Fuel Ratio Control System was designed by Dynalco's customer-driven research and development team for rich-burn engines.

Utilizing heated O₂ sensor(s) in the exhaust stream (one per bank), the AF-900PC provides PWM outputs to full-authority fuel valves in order to accurately control air/fuel ratio over a wide load range.

The AF-900PC implements this control through an intelligent closed-loop algorithm which provides smooth behavior adaptable to changing engine load, speed, fuel quality and ambient temperature / pressure.

The AF-900PC is also equipped with optional intake manifold pressure sensor(s) capability to maintain emissions over an even wider range of engine loads and operating conditions.

Programming of system parameters is performed using the Dyna-Host software. The use of the front keypad will also allow parameter changes and diagnostics information. These multi-functional keys assist in navigating through the numerous screen levels on the LCD.

The AF-900PC system monitors the proper operation of all sensor inputs and controller outputs, flagging errors and changing its operating mode when a fault is detected. The system also provides Modbus communications to provide real-time controller information for your PLC or SCADA system.

Data logging of critical parameters is stored via onboard flash memory.

FEATURES

- Utilizes heated oxygen sensor(s)
- PWM Output control for Full-Authority Fuel Control Valve(s)
- Large-character, backlit LCD display
- Quick and easy laptop configuration; download and upload capabilities
- Modbus compatible
- Provides On-Board Data Logging of user-selectable parameters (downloads in Excel format)
- Fully programmable from front keypad
- CSA Class I, Division 2, Groups A, B, C, D approved

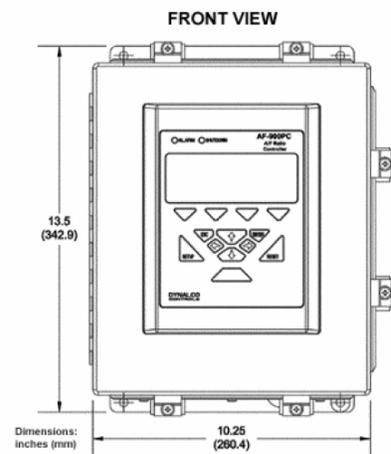
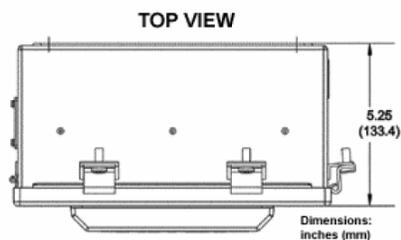
SPECIFICATIONS

Electrical:

Supply Voltage:	10 – 30 VDC
Input Types:	Pre-Catalyst Heated O2 Sensors (one per bank) Post-Catalyst O2 Sensor Thermocouple Inputs for Air Manifold, Pre & Post Catalyst Temps Optional Air Manifold Pressures (one per bank) Pulsed input for magnetic pickup signal
Output Types:	PWM type for Full Authority Fuel Valve (one per bank) (3) Relays for Alarm / Shutdown / Auxiliary

Mechanical:

- Gasketed Painted Metal Enclosure
- Removable Wiring Connectors



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