

# **AFR-9** Air/Fuel Ratio Controller

## Simple Control for Complicated Sites.

Compliance Controls' AFR-9 air/fuel ratio controller offers the same simplicity as the AFR-1 model. Non-intrusive installation. Streamlined menu-driven navigation. But with more setpoints, you get even tighter control.

The AFR-9 controller offers nine setpoint targets, based on a combination of three RPM settings and three manifold pressure settings. As your engine's load conditions change, your AFR-9 continues to make sure it is in the best possible operating range. It also includes manifold pressure and RPM sensing technology.

If your site is facing tightening regulations, changes in ambient temperature, big load swings or gas quality/pressure changes, the AFR-9 is the right choice. It's simple air/fuel ratio control with more flexibility.



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# AFR-9 The Simplest Multipoint Air-Fuel Controller Available

The AFR-9 air-fuel ratio control system is a true load-following controller (measuring manifold pressure and RPM). It features nine air/fuel setpoints that can be specifically matched to engine load conditions.

## Main Features

- Simplest multipoint air-fuel controller on the market
- Easy on-screen interface for convenient setup and operation
- Nine air/fuel setpoints matched to specific engine load conditions
- Operator help key on the display

## Benefits

- Designed for applications with wide engine load swings
- Ongoing compliance in high-variable environments
- Fast and easy installation
- Minimal operator training required
- Comprehensive fault diagnostics
- Fully automatic – no operator required in normal operation
- Nine set points – better resolution and better control of load swings
- Excellent fuel economy

To find out more about the AFR-9 Control System, contact your local Compliance Controls dealer or visit our website: [www.compliancecontrols.com](http://www.compliancecontrols.com)

## Technical Features

- Setup and operation done entirely through the 4 Line x 20 Character Display, enclosure or remote mounted
- Designed for wide range, horsepower gas fueled, carbureted rich-burn industrial engines
- Microprocessor-based controller with nine air/fuel setpoints
- Available with either the non-intrusive auxiliary fuel strategy or an in-line fuel control valve
- Proportional solenoid control valves used for quick response time (available)
- Full authority valve (available)
- Map sensor to measure variances in manifold air pressure
- Post catalyst, oxygen sensor inputs for real-time adaptation to changing catalyst performance (post catalyst sensor is optional)
- Pre/Post catalyst differential temperature displayed when used with (optional) ungrounded Type K thermocouple.
- Separate alarm and shutdown dry-contact, DPST relays, 4 amp at 250VDC
- Heated exhaust gas oxygen sensors for optimum AFR control
- NEMA 12 enclosure, 10"W x 13"H x 5"D
- 24VDC, 4.8 amp max (application specific), Optional 12VDC
- Magnetic pickup or negative ground ignition input for engine operating reference
- Upgradeable to accept additional end devices



For a dealer near you go to [www.compliancecontrols.com](http://www.compliancecontrols.com) or call 918-627-5050