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AFR-1R Rich-Burn Air/Fuel Ratio Control System

The AFR-1R is the simplest to use rich-burn engine, single set point air/fuel ratio control system available. The system is designed to maximize the efficiency of a 3-way catalyst by maintaining the proper air/fuel ratio.

Maintaining the correct air/fuel ratio to enhance the performance of your catalytic converter shouldn't be that hard, and it's not if you choose the right equipment.

The FW Murphy AFR-1R features a single pre-catalyst set point target to optimize the catalysts performance. And when activating the optional post-catalyst set point target, the AFR-1R monitors the catalyst performance and adjusts the air/fuel ratio to maintain and prolong the catalyst performance.

The system includes the PV450 full-color graphical user interface for control functions, monitoring, programming and diagnostic displays. The eight-button display includes comprehensive built-in help files for added operator convenience.

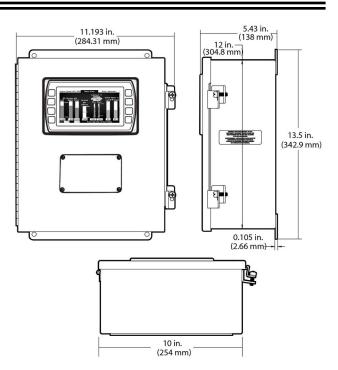
The AFR-1R air/fuel ratio controller represents cutting-edge technology in many areas: hardware, microprocessor power, control system software, operator interface options, adaptability to variable engine conditions and control requirements, software upgrade capability, in addition to comprehensive onboard diagnostics system (OBD).

Technical Features

- Designed for low horsepower gas fueled, carbureted rich-burn engines
- Microprocessor-based controller with a single set point
- Set point and operation done entirely through the full-color graphic display, enclosed
- Pre and post catalyst thermocouple input for catalyst over temperature protection (ungrounded Type K thermocouples, optional)
- Pre and post catalyst differential temperature displayed
- Separate alarm and shut-down dry-contact relays for flexibility in setup and operation
- High-speed full-authority butterfly fuel control valves for quick response time (available)
- Proportional solenoid fuel control valves for auxiliary fuel control (available)



Dimensions



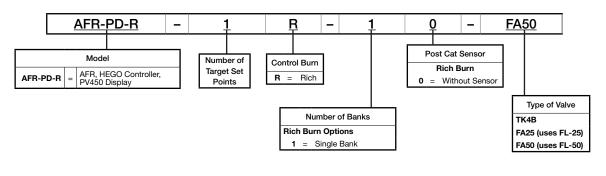
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Technical Features (continued)

- Heated exhaust gas oxygen sensors for optimum AFR control
- IP 66 enclosure, 10 in. W x 13 in. H x 5 in. D
- 12 / 24 VDC Nominal
- CD ignition input for engine speed reference with optional magnetic pickup input
- Upgradeable to command multi-set point targets and accept additional end devices

How To Order

Options listed below applies to AFR-1 Air/Fuel Controller. All configurations may not be available. Call your sales representative or FW Murphy for more information. Sample order AFR-PD-R-1R-10-FA50 below.



Approximate Shipping Weight and Dimensions		
Model	Weight	Dimension
All Models	18 lb.	16 x 16 x 11 in.