

Compliance  
Controls

# Rich Burn Air/Fuel Ratio Controller

## So Simple It's Smart



### AFR-1R The Simplest, Rich-Burn Air/Fuel Controller Available

Striking the right air/fuel ratio to support your catalytic converter shouldn't be that hard. And it's not – if you choose the right equipment.

Compliance Controls' AFR-1R air/fuel ratio controller is exactly the right choice. It's pure simplicity at every step – from installation to operation.

### How Simple Is It?

- Non-intrusive installation – The AFR-1R operates on an auxiliary fuel line, which can be easily isolated for maintenance, analysis or troubleshooting. **SIMPLE!**
- Single setpoint , No fine-tuning or tweaking needed. **SIMPLE!**
- Streamlined navigation – single-button access to the main functions. **SIMPLE!**

It doesn't get any simpler or any smarter.



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## Main Features

- Simplest air/fuel controller on the market
- One setpoint target
- Easy on-screen interface
- Operator help key on display

## Benefits

- Ongoing compliance
- Fast and easy installation
- Minimal operator training required
- Comprehensive fault diagnostics
- Fully automatic – no operator required in normal operation
- Improved engine and emissions control performance
- On-screen help for setup and navigation

## Technical Features:

- Designed for low horsepower gas fueled, carbureted rich-burn industrial engines.
- Microprocessor-based controller with a single setpoint
- Setpoint and operation done entirely through the 4 Line x 20 character display, enclosure or remote mounted.
- Post catalyst, oxygen sensor input for real time adaption to changing catalyst performance (post catalyst sensor is optional).
- 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 shutdown dry-contact relays for flexibility in setup and operation.
- Proportional solenoid control valves used for quick response time.
- Heated exhaust gas oxygen sensors for optimum AFR control.
- NEMA 12 enclosure, 10" W x 13" H x 5" D.
- 24 VDC standard with optional 12 VDC configuration.
- CD ignition input for engine speed reference with optional magnetic pickup input.
- Upgradeable to command multi-setpoint targets and accept additional end devices



Compliance Controls  
Tel: 918.317.4100 Fax: 918.317.4266  
Web: [www.compliancecontrols.com](http://www.compliancecontrols.com)  
e-mail: [info@compliancecontrols.com](mailto:info@compliancecontrols.com)