

AFR-FI

Lean-Burn Fuel Injected Engines

The AFR-FI Air/Fuel Ratio Controller is your best value for fuel-injected, lean-burn natural gas engines. The microprocessor-based AFR-FI gives better performance through fuel efficiency, automated compliance and lower maintenance with easy installation, automatic operation and state-of-the-art technology.

The AFR-FI is a smart system that automatically optimizes the lean-burn air/fuel mix to ensure top performance and fuel efficiency without the use of traditional pneumatics.

The automated compliance maintains tight control of the lean-burn air/fuel mix with computer speed and precision.

In addition, the AFR-FI delivers optimized engine operation and stays alert with 26 alarms and shutdowns resulting in lower maintenance. Engine monitoring includes fuel flow and fuel pressure, intake manifold temperature, exhaust temperature and air manifold pressure.

Features include:

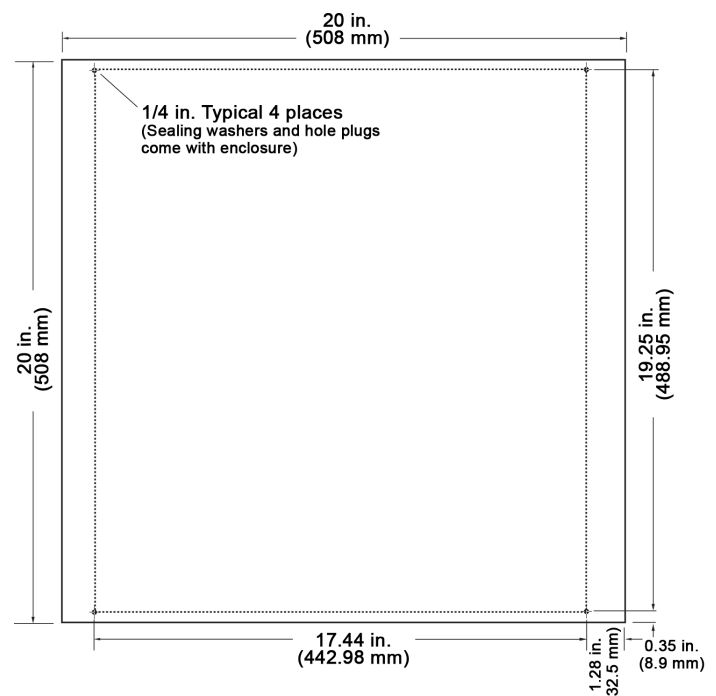
- Improved Engine Performance and Efficiency
- Automated Emissions Compliance
- User-Friendly Display and Keypad Interface
- Price Competitive
- High-Speed Modbus Communications

Technical Features

- D100 MHz, 586-compatible microprocessor: 8 MB of RAM
- User-programmable: Windows-based ladder-logic software (IEC- 61131-3 standard programming languages)
- Daylight-filtered vacuum fluorescent display (4 lines with 20 characters each line)
- 16-key pad: for set point entry, alarm acknowledgment, start, stop, reset, etc.
- 4RS485 serial ports
- Digital I/O module-reads up to 18 thermocouples or mA sources
- 10 sets of data points (air / fuel map)
- Fuel flow totalization (optional)
- Shutdown or fault snapshot—provides a complete picture of system conditions at shutdown
- 4 Discrete relay outputs



Dimensions



Technical Features (continued)

- Shutdowns
 - GOV-10 shutdown (optional)
 - Low / high fuel flow
 - Low / high fuel pressure
 - Low / high air pressure
 - Air manifold pressure transmitter fail
 - TC break
 - Air manifold temperature
 - Overspeed
- Accommodates wide range of engine configurations
 - V-type engines, inline
 - Waste gate or air damper
 - Other special configurations
- Hour meter
- 12 Alarms
- Wall / bracket mount enclosure or free standing
 - Window in door
 - Internal swing panel
 - DIN rail mounted terminal blocks
 - Panduit wireway
- Canadian standard for separation of incandive and nonincandive wiring
- Operating temperature: -40 to +58 C (-40 to +185 F)
- Controller approved for Cl. 1, Div. 2, Grps. C & D Areas

How To Order

Please contact your local FW Murphy Sales Representative for details on how to purchase AFR Products and Systems from FW Murphy Production Controls.

FW Murphy Production Controls Sales Representatives and Distributors can be found at www.fwmurphy.com/where-to-buy/us-sales-distributors