

Air Fuel Ratio Controls (Compliance Controls) AFR-FI - Air-Fuel Ratio Controller for Fuel Injected Engines

Simply the Best Value



AFR-FI Air/Fuel Ratio Controller

Compliance Controls' AFR-FI air/fuel ratio controller is your best value for fuel injected, lean-burn natural gas engines. What do you get with the microprocessor-based AFR-FI?

FUEL EFFICIENCY. No more traditional pneumatics. The AFR-FI is a "smart system" that automatically optomizes the lean-burn air-fuel mix to ensure top performance and fuel efficiency.

AUTOMATED COMPLIANCE. The AFR-FI maintains tight control of the lean-burn air-fuel mix with computer speed and precision.

LOWER MAINTENANCE. The AFR-FI delivers optimized engine operation and stays alert with 26 alarms and shutdowns – covering fuel flow and fuel pressure, intake manifold temperature, exhaust temperature and air manifold pressure.

Other AFRs for lean-burn, fuel-injected engines deliver a whole lot less. But the MEC-FI – with easy installation, automatic operation, state-of-the-art technology – is simply the best value you can find.



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Simply The Best Value for Fuel Injected Engines.

Main Features

- · Improved engine performance and efficiency
- Automated emissions compliance
- · User-friendly display and keypad interface
- Price-competitive
- · High-speed ModBus communications

Benefits

- · Compliance assured
- Eliminates time-consuming, unreliable pneumatic air-fuel control
- · Better engine performance
- Less maintenance lower maintenance costs
- Improved troubleshooting
- · Better fuel economy
- · Easy installation and setup
- · Fully automatic
- Easy integration with other control systems and data collection / analysis systems
- · Supports high-speed communications





Compliance Controls

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 acknowledgement, start, stop, reset, etc.
- · Wall / bracket mount enclosure or free standing
- Window in door
- Internal swing panel
 DIN rail-mounted terminal blocks
- Panduit Wireway
- Ample room for customer connection
- · Canadian standard for separation of incendive and non-incendive wiring
- · 4 RS485 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)
- · Hour meter
- Shutdown or fault snapshot- provides a complete picture of system conditions at shutdown
- · 4 discrete inputs normally closed
- · 2 discrete relay outputs
- Shutdowns
- GOV-10 shutdown (optional)
- Low / high fuel flow
- Low / high fuel pressure
- Low / high air pressure
- Air manifold pressure xmitter fail
- Fuel pressure / flow xmitter fail
 Air manifold temperature xmitter fail
- TC break
- Air manifold temperature
- Overspeed
- 12 Alarms
- · Accommodates wide range of engine configurations
- V-type engines, inline
- Waste gate or air damper
- Other special configurations
- Operating temperature: -40 to +85°C (-40 to +185°F)
- · Controller approved for Cl. 1, Div. 2, Grps. C & D Areas



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