

 **MEC-FI** Air/Fuel Ratio Controller For Lean-Burn Fuel Injected Natural Gas Engines

Simply the Best Value

Compliance Controls' MEC-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 MEC-FI?

FUEL EFFICIENCY. No more traditional pneumatics. The MEC-FI is a “smart system” that automatically optimizes the lean-burn air/fuel mix to ensure top performance and fuel efficiency.

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

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

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.



Compliance 
CONTROLS

For a Distributor near you go to
www.compliancecontrols.com
or call 918-627-5050



Simply The Best Value For Fuel Injected Engines.

The MEC-FI is a microprocessor-based controller specifically configured for fuel-injected, lean-burn engine air-fuel ratio control.

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

Technical Features

- 100 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 incandive and non-incandive 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, in-line
 - 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

To find out more about the MEC-FI Control System or to find a dealer near you visit our website: www.compliancecontrols.com or call 918-627-5050.

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