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Autoflame Service & Support





Mk8 EGA Evo Monitoring & Reduction

The Mk8 EGA Evo is a Continuous Emissions Monitoring System (CEMS) for use in industrial/ commercial plant to ensure compliance with the environmental regulations regarding emissions. The EGA can also be configured to help the plant achieve better combustion, which can result in reducing emissions and saving fuel costs.



Emissions Analysis

Simultaneous & continuous sampling of up to 6 exhaust gases $(O_2, CO_2, CO, NO, NO_2 \& SO_2)$, as well as pressure and temperature at a fraction of the price of alternative systems.



Combustion Trim

Enables 3-parameter trim control on a Mk8 or Mini Mk8 MM combustion controllers to improve fuel efficiency, combustion safety and reduce emissions.



Easy Setup

Quick & easy installation using plug-in connectors.



Stores 3 Years of Emission Data

3 years of data stored within the EGA including gases, pressures, atmospheric pressure, temperatures, efficiency, & fuel usage.



, Totalised Exhaust Gas Emissions

Output totalised emissions data for any specified period of time with a press of a button.



Export & View Emissions Reports

Export and view reports in Excel by user-definable time periods from one day up to 3 years.

Data Logging & Trending

- The EGA logs combustion parameters, including totalised values.
- Historical data updated every minute.
- . Emission data can be logged in hourly or daily resolution.
- EGA data graphs scalable from very narrow range (for example, the last 10 minutes) to extended periods (over the course of several days, weeks, months - up to three years).
- Three years of data stored within the EGA including gases concentration, pressures, atmospheric pressure, temperatures, efficiency, & fuel usage.
- EGA logs are stored on the internal memory and can be exported using PC software.
- Long-term emission logs can be totalised over any given time period, either by mass or volume of emissions.



Safe Combustion Limits

The EGA can be optioned to perform combustion limits testing on measured emissions for O₂, CO₂, CO, NO and exhaust temperature.

The EGA can be set to output a warning/alarm when a set limit threshold is breached. The alarm output can be via screen notification, 4-20mA signal output or via Modbus.

Enable 3-Parameter Trim

In addition to all the EGA monitoring and alarms features, the EGA can be used to feed its live data to an Autoflame MM burner/boiler controller to improve combustion performance, reduce energy consumption & improve safety.

The EGA enables Autoflame's unique 3 parameter trim $(O_2,$ CO₂ & CO) to enable the MM Controller to perform trim. The controller will impose corrections to the air ratio in order to maintain optimum combustion performance for the system.



CEMS Auditing

Fuel flow input can be introduced to the EGA for the purpose of accurate CEMS analysis. The fuel flow input to the EGA can be from an Autoflame MM controller or via a dedicated 4-20mA fuel flow metering input.

The EGA logged data can be exported to a PC as an Excel file, which enables the user to download and view reports by definable time periods (1 day, 4 weeks, 16 months, etc.), based on:

- Total weight & volumetric emissions.
- Total cost of fuel (calculated by current cost per tonne of fuel).
- Weight & volumetric emissions per exhaust gas (O_2, CO_2) CO, NO, NO₂, SO₂) & per fuel.



The EGA live data can be accessed via Remote 4-20mA outputs, Direct Modbus, or using Monitoring the Mk8 DTI, which enables accessing the EGA's data over the Internet. Combustion

The EGA can perform combustion limits tests for O₂, CO₂, CO, NO & exhaust temperature.

HD Touch Screen

Limits

12,1" HD capacitive touch screen with graphical representation for all live and historic data.

Maintenance

The EGA can be serviced at an Autoflame service centre every 12-18 months to ensure optimal performance.