

Mini Mk9

Market-leading micro-modulating system, delivering optimized combustion and reliable burner management for connected and safe boiler rooms.

Increase Efficiency

Reduce fuel consumption by 7-12% over traditional linkage systems.

Reduce Costs

Lower maintenance costs with an accurate positioning system.

Minimize Emissions

Cut CO₂ emissions and other harmful greenhouse gas emissions with advanced control technology that supports cleaner, more sustainable operations.

Versatile Inputs

Integrate more devices and functions with 4-20mA and 0-10V inputs, plus programmable terminals for remote lockout reset, manual purge, and more.

Integrated Automation & Safety Features

Fully automated flame safeguard, valve proving system, VFD control, scheduling, sequencing, and other automatic settings already integrated.

Easy Install & Commissioning

Steel construction, 8" capacitive multi-touch screen with user friendly interface, also available as a control panel package.

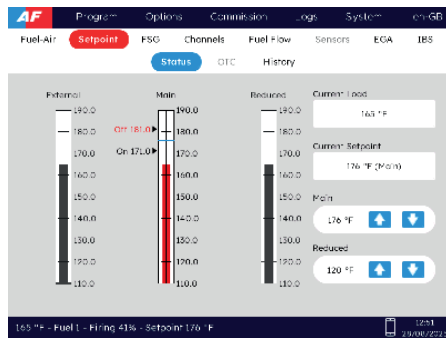
UV Flame Trim

Patented, unique technology, exclusive to the Mini Mk9. UV Flame Trim maximizes efficiency, safety, and lifespan of your equipment with near instant combustion alterations when paired with the Mk8 EGA EVO for unparalleled performance.

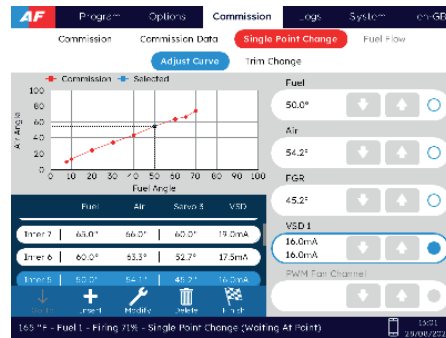
Fully Connected

Wireless connectivity for settings and data upload and download via the Mk9 Download Manager App on your mobile phone or laptop. Ethernet or hardwired Direct Modbus and Direct BACnet are available for a total BMS solution with remote monitoring.

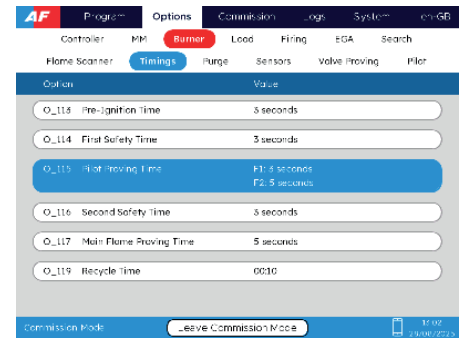
These are many interactive control and reporting screens accessible in every Mini Mk9 controller with no additional modules. Autoflame systems have been installed on tens of thousands of burners globally.



Setpoint Control



Commissioning - Single Point Change

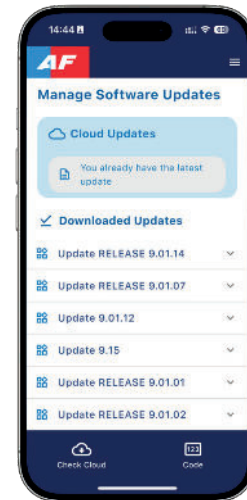


Fuel-specific Options

Feature Set:

The following features are built into the Mini Mk9:

FEATURE	DETAILS
Screen size	8" Capacitive Multi Touch
Flame Safeguard	Built-in - Can be operated as a Flame Safeguard only unit
Fuel-Air Ratio Control	Automatic, Low Flame Hold, Hand Mode, Enable/Disable Burner, stage firing, Change on the Fly (COF)
Channels	3 Servos, 1 VSD, 1 PWM Fan
Fuel Curves	2 Independent Fuel Curves – Dual Fuel and COF Support
Commissioning	Up to 20 points each, plus Open, Closed, Golden Start, FGR Start and Purge Positions
Setpoint Control	Standard, Reduced, External, Outside Temperature Compensation (OTC), Setpoint Programmes
VPS (Gas Valve Proving)	Available on 2 separate gaseous fuels
Gas and Air pressure	Monitoring and proving
Flame Scanners	UV, IR, Ionization, Flame Switch, UV Trim, Dual scanner options with AND/OR functionality
Programmable Inputs	3 Burner Control and 1 FAR Control User Programmable Inputs
Scheduling	Up to 2 Run Time Schedules & 10 Setpoint Programs
IBS/Lead Lag Sequencing	Built into each MM controller
Fuel Flow Metering	Instantaneous and Totalised, now possible through 4-20mA Mass Flow input
FGR (Flue Gas Recirculation)	Servo control with configurable FGR Start position
Outside Temperature Compensation	Using OTC module or Internet Weather Data
VFD Management	Single 4-20mA/0-10V VSD
PWM Fan	Direct Control with Feedback
Trim Control	3- Parameter Trim with an EGA, UV Trim with a UV Scanner and EGA/O ₂ probe
Emissions Monitoring & Reporting	With a Mk8 EGA EVO
Logs	Unlimited logs for System, Lockouts, Errors, Alarms and Warnings
Security	Password Protected for Commission and Online Changes
Commission Data Backup	Wireless Connectivity through Download Manager App
Connectivity	Wireless and Ethernet Connections
BMS System Control	Via Modbus or BACnet
Graphics	Customizable with several boiler design options
Language Support	English (UK & US), Chinese, Spanish + more
Connectors	Color Coded plugs for Easy Wiring
Upgrade	Housing aperture same as Mini Mk8 for easy upgrade
Technical Manual	Built-in
Approvals	UKCA, CE, UL, cUL, AGA, SIL 3
Options	Fuel-Specific and Searchable Options
First Outs	Up to 3 First Out Annunciation Terminals



Mk9 Download Manager App

New with the Mini Mk9, the app can transfer MM settings between units, and enables easy upgrades and software updates.

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