

Mini Mk8 Controller

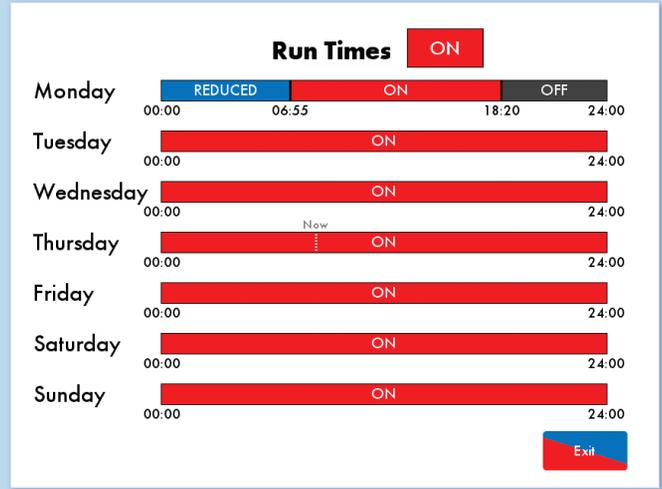
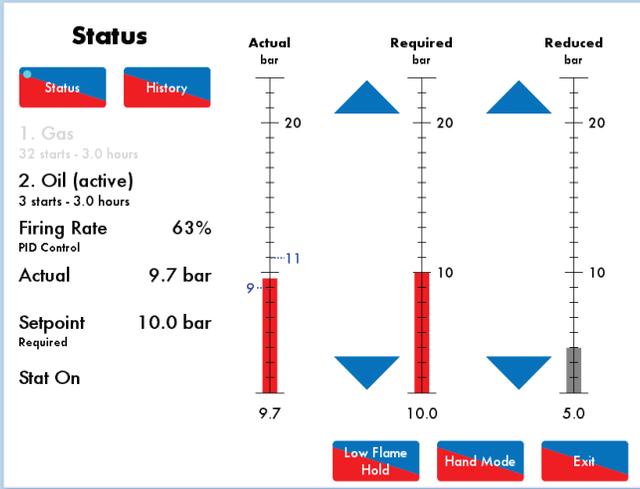
Complete burner management in a compact, affordable system

The Mini Mk8 is a cutting-edge Micro-Modulating system that provides an easily programmable and flexible means of optimising combustion throughout the load requirement range of the boiler/burner.

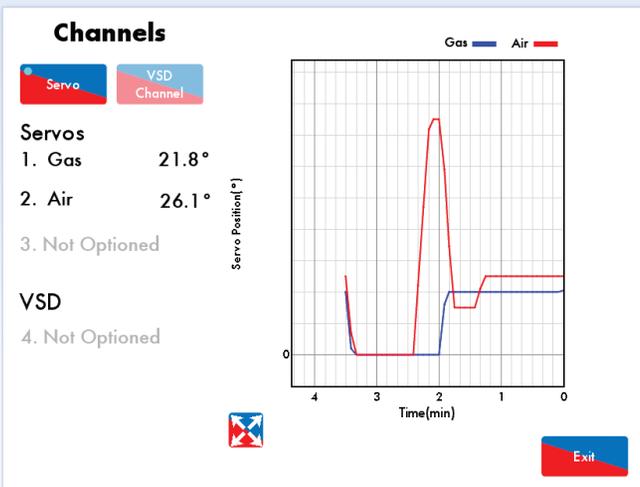
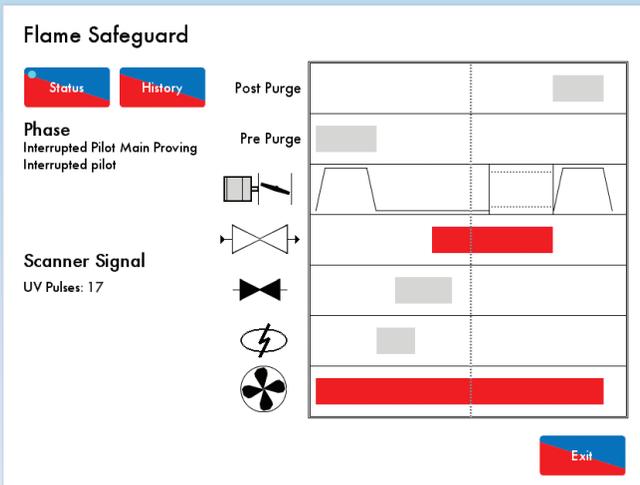
This control module encompasses all the functions required for reliable burner management. Built into this system is a fully automated flame safeguard and valve proving system, MODBUS connectivity, and a new touchscreen interface.

This system ensures the burner temperature is accurate to within 1° and pressure to within 1 PSI. The positioning accuracy of the direct drive motors controlling the air damper and fuel valve is 0.1 angular degrees throughout the load range. This accuracy ensures repeatable fuel-to-air ratio that leads to improved fuel economy and reduced carbon footprint.

- Able to reduce fuel consumption by 5-7% over traditional linkage systems
- Capable of reducing CO₂ emissions by 10%
- Repeatable and accurate positioning system reduces maintenance costs
- Controls fuel, VSD, scheduling, sequencing and other automatic settings
- Robust steel construction
- Available in a control panel package



These are few of the 46 interactive control and reporting screens accessible in every Mini Mk8 controller with no additional modules. Autoflame systems have been installed on tens of thousands of burners globally.



Online Changes

#	Description	Value
110 BC:	Burner flame scanner type	Standard scanner
111 BC:	Pilot type	Interrupted pilot
112 BC:	Pre-purge time	6 seconds
113 BC:	Pre-ignition time	3 seconds
114 BC:	First safety time	3 seconds
115 BC:	Pilot prove time - pilot trial for ignition (PTFI)	3 seconds
116 BC:	Fuel 1 second safety time - main trial for ignition (MTRI)	3 seconds
117 BC:	Main flame proving time	5 seconds
118 BC:	Post-purge time	10 seconds
119 BC:	Control box recycle time	10 seconds
120 BC:	UV Threshold	10
121 BC:	Delay from start of pre-purge until air switch checked	5 seconds
122 BC:	Flame switch operation	Ionisation
123 BC:	Fuel 2 second safety time - main trial for ignition (MTRI)	3 seconds

All
MM
EGA
DTI
BC

↑
↓
Exit

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All features are standard:

Screen size	7" (14x10.7cm)
Touchscreen	✓
Flame safeguard	✓
Air/fuel ratio control	✓
IBS/lead-lag sequencing	✓
Scheduling	✓
Commissioning	✓
VSD management	✓
Reporting/graphing	✓
FGR (Flue Gas Recirculation)	✓
Channels	3 servos/1 VSD
Lockout/error logging	Most recent 64 errors/lockouts
Number of fuel curves	2
VPS (Gas Valve Proving)	✓
Outside temperature	✓
Login security	✓
Back up commissioning data via IR port	✓
Boiler log entries	1000
Dual fuel support	✓
Air pressure monitoring & proving	✓
Fuel flow metering	✓
Golden start facility	✓
Commissioning points	27
Customisable graphics	✓
Flame rod/UV change over option	✓
Multi-language display	English, Chinese, German, Spanish, Polish, Turkish, more
UL, CE, AGA approvals	✓
On-board technical manual	✓
Bluetooth connectivity	✓
Modbus connectivity	✓
O2 trim control	Available with Module
Three parameter trim control	Requires EGA
Emissions monitoring & reporting	Requires EGA