CC-600 STEAM BOILER MASTER CONTROL

THE ALGORITHM MAKES THE DIFFERENCE™

CENTURY CONTROLS

Century Controls CC-600 Steam Boiler Master Controller is a proven way to optimize a series of modulating boilers to meet steam demands. The patented algorithm, designed by boiler experts, controls boiler firing rates and makes intelligent lead/lag decisions. Automatic alternation and idle boiler warm-up features eliminate chemical carryover and keeps boilers ready to operate when needed. The controller utilizes the sophisticated flexible algorithm to maintain tight control of pressure setpoint in the most energy efficient manner. The algorithm makes the difference in the amount of money saved and the performance of the system.

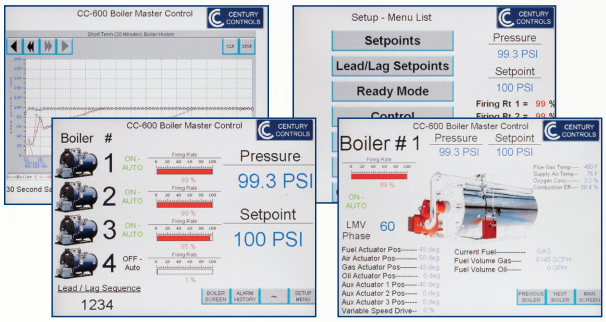
HMI

Touch screen user interface

Easy setup and configuration

Graphical display of boiler operation and historical trending

Customizable



CENTURY CONTROLS ⟷ SIEMENS

Siemens Flame Safety Integration

Digital communications with LMV Control Modules

Seamless integration and startup

One point access for all boiler information

Benefits

LOWER FUEL COSTS: Optimizes the boiler lead/lag operation by continually monitoring the rate of change in steam pressure which allows multiple boilers to efficiently work together to achieve system setpoints. This algorithm eliminates lag boiler cycles and ensures boilers are firing at most efficient firing rates. This "smarter" algorithm typically produces a 5-15% reduction in fuel consumption.

LOWER MAINTENANCE COSTS: Reduces stress on boiler tubes and refractory by reducing lag boiler cycles and eliminating large firing rate changes. This "gentle" approach significantly extends boiler equipment life.

SUPERIOR VERSATILITY: Integrates with all boilers, burners, burner controls, including linkage based or linkageless systems. Also provides setpoint flexibility with regard to speed of load change response, idle boiler warm-up options, lead boiler alternation schemes, scheduling interface and integration with pumps and steam consuming devices.

REDUCE EMISSIONS: Reduces greenhouse gas emissions by reducing fuel consumption.

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CC-600 Patented Boiler Master, Efficiency And Complete Control

Century Controls CC-600 Boiler Master Control provides efficient, coordinated control of multiple steam boilers. The CC-600 will minimize the drop in pressure with large load changes and reduce cycling of the boilers. All boilers are controlled at their optimal firing rates, saving fuel. Reducing cycles minimizes equipment wear by preventing thermal shock to tubes and refractory.

The Century Controls patented algorithm starts lag boilers based on load conditions, not pressure offsets. Boilers are started before large drops in pressure occur. This allows a slow nudge of the boiler up to operating point reducing stress and thermal shock issues. CC-600 controllers prevent sudden increase in water level requirements that lead to unnecessary shutdown and carryover. Boilers are shed when they reach operating conditions that are inefficient, saving energy. The sophisticated algorithm will optimize the operation of the steam system.

Control Your Boiler Room Operation

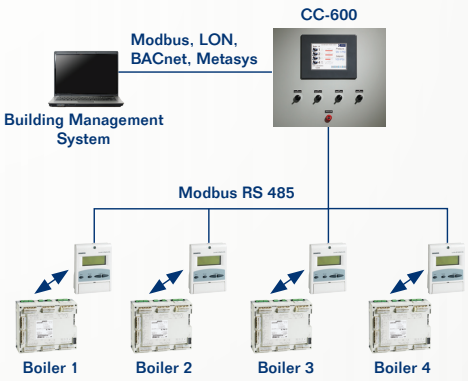
- Individual boiler setpoints for add and shed decisions
- Dual control speeds for above or below setpoint
- On site configuration to meet load conditions
- Anticipatory control options or special sequences available
- Automatic lead/lag alternation and idle boiler warm-up features
- Interfaces directly with linkage based and linkageless burner controls.
- Automatic or manual mode operation of boilers
- Intelligent lead/lag operation based on size and efficiency of boilers

Enhanced Controller

Now available with two-way digital communication with the Siemens LMV system; one access point for all boiler and burner information plus a large touch screen for easy setup and graphical display of operation.

Specifications

Display	8" color TFT touch screen with Ethernet port and SD memory port
Pressure Sensors	0-30 PSIG, or 0-200 PSIG 4-20 mA sensors
Ratings	UL /CUL approved, NEMA 12 panel
Modulating Output	4-20 mA or 0-135 Ohm
Warranty	Limited two-years
Fuels	Single or dual fuel
Controller	Programmable Logic Controller



Options

- Automatic alternation of lead boiler
- Timed or temperature warm-up of idle boilers
- Dual setpoints for night or scheduled turndown
- Communication Interfaces: BACnet MSTP, BACnet IP, LON, Modbus RTU, Modbus TCP and Johnson Controls Metasys Integration
- Siemens LMV Modbus communications integration

MODBUS BACnet™

In addition to Master Controls, Century Controls has additional boiler room solutions that include O_2 trim systems, feed water and draft control.

Member of ABMA American Boiler Manufacturers Association

CENTURY CONTROLS

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