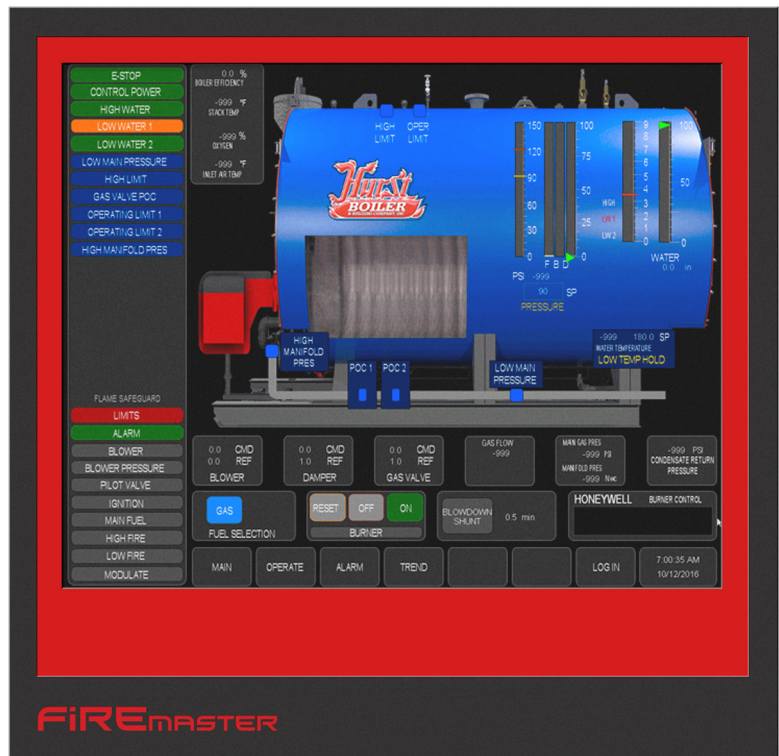# FiREmaster

INTEGRATED CONTROL SYSTEM

:efficiency

"Many facilities such as schools and hospitals have multiple boilers for redundancy and turn down".

Integration has become essential for efficient operation and shared duty load. Hurst developed and offers a full line of processor based *smart* controls fully compatible with all Hurst designs including alternative fuel models. Precise control of fuel and combustion air can result in very high efficiencies. Hurst intelligence control systems allow you to harness these savings while increasing overall boiler plant productivity.

LOWERS FUEL COSTS:

Optimizes the boiler lead/lag operation by continually monitoring the rate of change in steam pressure which allows multiple boilers to work together efficiently to achieve system set points.

REDUCE EMISSIONS:

Reduces greenhouse gas emissions by maintaining proper air-to-fuel ratios.

The Consulting Engineers First Choice

Ask about the "existing boiler" upgrade / retro kit for this new technology...

FiREmaster

INTEGRATED CONTROL SYSTEM

- **MAXIMIZES BOILER ROOM EFFICIENCY**
- **INCREASES PRODUCTIVITY**
- **REDUCES OPERATING COSTS**

■ FireMaster is an on-board automated monitoring control system designed for the optimal control and operation of a single boiler/burner package.

■ Up to four boilers, equipped with the Firemaster controller and two feedwater systems fitted with our compatible *OxyMaster* or the *FeedMaster* controller can be seamlessly integrated into a single point operator interface with the use of the Hurst supervisory *BoilerMaster* multi boiler control hub.

MULTI BOILER

■ Each boiler, feedwater, and supervisory system is housed in its own independent control panel.

■ FireMaster is fuel flexible- Burn gas and/or oil, with automated fuel changeover to maintain constant header pressure. Implemented Lead-Lag allows each boiler in the system to work simultaneously to maintain constant load pressure.

■ Average target output range accommodates 300-2500 HP. Surge tanks in this system support between 500-1000 gallons. Guaranteed efficiency 80%, FireMaster can reach 85%+ efficiency with optional Economizer. On-screen fuel management system includes steam flow totalization and real-time calculated efficiency.

■ Huge user-friendly Siemens 19" display- Simple to learn operator touchscreen interface, each interactive screen is designed for intuitive visual understanding with precise control.

■ FireMaster uses LAN integrated Siemens S7-1200 series PLCs for process control.

■ FireMaster uses Fireye servos for their finer degree of actuation, built in Modbus communication, and internal diagnostic reporting. Blowers are controlled by Siemens G120 VFDs for greater efficiency. FSG is Honeywell 7800 series (SCC LMV3 option available).

■ FireMaster is designed to easily integrate with existing TCP communicating SCADA and data acquisition systems. Over 40 industrial protocols supported including BACnet, Modbus, EtherNet/IP, and more.Communication to Allen-Bradley/ Rockwell systems supported.

■ FireMaster includes internet based remote tech support via a hardware VPN.

SINGLE BOILER

■ Touch screen includes multi-language option.

- • (Option) Draft sequence control.
- • (Option) Cell modem for internet.
- • (Option) **Allen Bradley** components available upon request.
- • (Option) Native user defined data logging to LAN or internet accessible CSV files.

Currently compatible with the following burners;
Oilon, Riello, Powerflame, Webster and Weishaupt.

join the conversation

CALL toll free 1.877.774.8778

BIOmaster
OXYmaster
FIREmaster
FEEDmaster
BOILERmaster

integrated control systems