



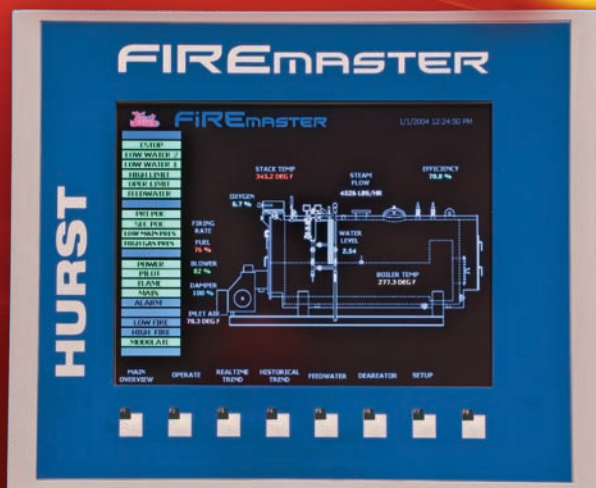
FIREMASTER

integrated monitoring system

Boiler Controls From Boiler People



:efficiency



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

HURST BOILER

FIREMASTER

integrated monitoring system

FireMaster is a fully automated monitoring and control system integrated through out the entire package boiler system from it's make-up water consumption to steam-flow and back as condensate return.

This control family is designed and tested by Hurst to optimize the firing and operations of the Hurst Performance Series Boilers. With over 1000 data scans a second, the communication and processing power of a Firemaster micro-programmable controller (PLC) is unmatched by conventional stand alone systems. In combination with the micro PLC, is the addition of a touch screen human machine interface (HMI). Together these two form the core of this amazing integrated boiler control system.

Now it is possible to incorporate functions and features for part or all of your boiler room equipment into a single collection of processed information. Not able to be at the boiler room, use the convenience of your office Ethernet network or the world wide web from anywhere to access the Firemaster system. With this collective information comes the real-time data of efficiency and operating conditions on a continual basis and this information is archived daily into to the system's history log and retrievable at any time.

Utilizing the FireMaster's array of options to suit your personalized boiler system enables the full power of the processor's ability to manage and optimize over all efficiencies. Flexible design allows for future expansion of boilers and equipment as needs grow. What can start out as a cornerstone for individual boiler control can easily be updated to become the supervisory central hub for synchronised control of a family of enabled, peripherals such as additional Hurst boilers, OxyMiser deaerator systems, and FeedMiser feedwater stations. Flexibility extends to include surge tanks, lead/lag controllers and other component modules enabling the Firemaster to become a single point comprehensive boiler room control system.



STANDARD FEATURES

- UL 508A LISTED ASSEMBLED TYPE 12 CONTROL ENCLOSURE
- SINGLE POINT POWER CONNECTION WITH LOCKOUT / TAGOUT PROVISIONS
- 10" COLOR TOUCHSCREEN HUMAN MACHINE INTERFACE
- MICRO PROGRAMMABLE CONTROLLER WITH ETHERNET CONNECTIVITY
- VARIABLE FREQUENCY DRIVE CONTROL OF COMBUSTION AIR
- OPERATING LIMITS AND DEVICE VISUALIZATION
- LINKAGELESS SERVO CONTROL OF VALVES AND DAMPERS
- FIRING RATE MODULATION CONTROL
- CONTINUOUS WATER LEVEL MONITORING
- INTEGRAL OXYGEN TRIM
- THERMAL SHOCK PROTECTION
- SURGE SUPPRESSION

STANDARD MONITOR POINTS

- SECONDARY LOW WATER
- PRIMARY LOW WATER
- HIGH STEAM LIMIT
- OPERATING LIMIT
- BOILER WATER TEMPERATURE
- AIR INLET TEMPERATURE
- STACK TEMPERATURE
- OXYGEN LEVEL
- BOILER WATER LEVEL
- BOILER PRESSURE
- AIR SWITCH
- FUEL VALVE POSITION

STANDARD INFORMATION

- OPERATIONAL DEVICE VISUALIZATION
- INTUITIVE OPERATOR CONTROL
- OPERATIONAL ALARMS
- BOILER EFFICIENCY CALCULATION
- ALARM HISTORY
- HISTORICAL TRENDING
- FUEL / AIR RATIO CHARACTERIZATION

OPTIONAL FEATURES

- PROTOCOL CONVERSION -COMMUNICATIONS TO BUILDING AUTOMATION SYSTEMS – BacNet, MODBUS, Ethernet IP
- VFD FEEDWATER CONTROL WITH BYPASS
- FEEDWATER CONTROL VALVE
- STACK ECONOMIZER MONITORING
- STEAM FLOW TRANSMITTER
- FUEL METERING TRANSMITTER
- LEAD / LAG
- DRAFT SEQUENCING
- WEB SERVER
- E-MAIL NOTIFICATION
- REMOTE OPERATION
- CELLULAR MODEM
- OTHERS AS REQUIRED



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HURST BOILER & WELDING CO., INC.

Combustion Innovation

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