

## STANDARD FEATURES:

- 12.1 Inch TFT Touch Screen Graphic and Control Panel
- Central Facility Monitoring - not just “per boiler”
- No Loss of Control with Loss of Monitoring
- Ethernet, Intranet, TCP/IP Modbus Communications
- Email Alarm Messaging
- Web Publishing for Remote Viewing with HTML Graphics
- Control, Boiler, Alarms, BMS and Trending Graphic Displays
- Menu-Driven Operator Interface
- Supervisory Control
- DirectLink™ Servo Motor Linkageless Control System Interfacing
- Micro IV™ Plant Master Lead Lag Sequencer Interfacing
- Burner Management Interfacing
- Compliance Monitor Interfacing with Draft Control & Opacity Monitoring

## OPTIONAL FEATURES (Facility Mgr. Plus)

- Building Management System Interfacing
- Historical Trending
- Wireless Ethernet Communications
- Facility & Plant Wide Control, Data Logging & Reporting
- Boiler Efficiency & Fuel Cost Monitoring Computations & Displays
- Other Central Control Panels
- Communications Options, Including DeviceNet, and PROFIBUS and Fanuc Genius

Hays Cleveland Eagle 5™ Facility Manager Plus



## THE BOILER FACILITY MANAGER SYSTEM

The Eagle 5™ provides a central monitoring and supervisory control panel that integrates Hays Cleveland's boiler combustion control and instrumentation in single and multiple boiler steam and hot water plants.

The central control panel provides supervisory control and monitoring to fully optimize the control system to reduce energy and maintenance costs, and to improve safety by identifying faults and alarms.

Hays Cleveland's many decades of experience with SCADA systems led to the development of the Eagle 5™. The Eagle 5™ provides an economical approach for facility supervision and for communications.

The standard Eagle 5™ consists of an industrial 12.1-inch TFT display and supervisory touch panel; usually interfaced with the following controllers and instrumentation:

- Micro IV™ Lead Lag Boiler Sequencer and Plant Master, which controls Main Header Pressure or Temperature to Eliminate Idle Time and Significantly Reduce Fuel Costs.
- DirectLink™ Boiler Combustion Control System, UL 1998 Approved, Controls Up To Three Fuels, Combustion Air, VFD, FGR with O<sub>2</sub> Trim. Fuel Savings Exceed 4%.
- Draft Control, Model C-07720, Enhances Burner Performance and Reduces Fuel Costs.
- Analyzers: Excess Combustion O<sub>2</sub> and Opacity for Monitoring and Alarming.
- Burner Management Interface

The Eagle 5™ displays include controller face plates, bar graph display of process variable and set points, boiler graphics and parameters, alarm pages and a simple to use main menu to traverse the displays.

The Eagle 5™ incorporates a single control panel instead of multiple ones per boiler or per plant. The operator has a single touch screen with which to interface operating and monitoring parameters of all boilers in the plant. There are several additional advantages to this approach: low initial investment, low replacement costs and loss of display screen does not affect the control interface.

Represented by:

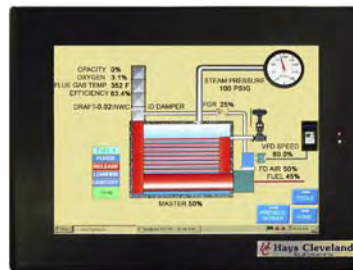
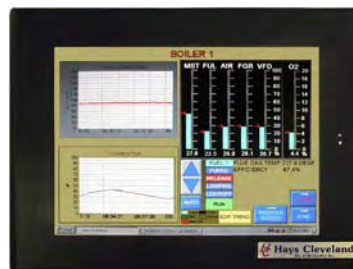
## EAGLE 5™ FACILITY MANAGER PLUS

Facility Manager Plus expands the system to incorporate many additional monitoring as well as supervisory control functions and communications.

Examples include:

- Boiler Efficiency: Hays Cleveland's boiler efficiency computers will accept the inputs from fuel flow, steam flow meters, compute BTUs from water flow meter and temperatures; to provide flow totals and compute boiler efficiencies.
- Fuel Costs & Flow Totals are displayed with the addition of flow meters.
- DA Tank, Feed Water, and Condensate Control & Monitoring: Hays Cleveland controllers and transmitters are provided for remote control and alarms with graphics and parameters displayed.
- All Other Boiler Plant Operations.
- Wireless communications.
- Modbus TCP/IP or Modbus RTU Gateway for Building Management Communications.

Contact Hays Cleveland or our local representative to discuss the options available for your facility. Visit our web site for information on the boiler controls and instrumentation presented in this bulletin.



Hays Cleveland DirectLink™ Boiler Combustion Control System.

Visit us on the World Wide Web at [www.hayscleveland.com](http://www.hayscleveland.com)

Hays Cleveland Div. of UniControl Inc.  
1903 South Congress Avenue  
Boynton Beach FL 33426  
Telephone: 561.734.9400  
Fax: 561.734.8060

email: [salescombustion@unicontrolinc.com](mailto:salescombustion@unicontrolinc.com)

Hays Cleveland Div. of UniControl Inc.  
1111 Brookpark Road  
Cleveland OH 44109  
Telephone: 216.398.4414  
Fax: 216.398.8558

email: [salescombustion@unicontrolinc.com](mailto:salescombustion@unicontrolinc.com)

Are you reading a FAX or a COPY of this bulletin? **DOWN-LOAD** the full-color PDF version of this and other literature at our website!