



Intelligent Boiler Control - Hawk ICS CB-H

As a fully-integrated boiler solutions provider, Cleaver-Brooks combines its 75 years of leadership experience in boiler design and integration with its long history as the leader in boiler control.

Using advanced PLC technology, Cleaver-Brooks delivers the CB-Hawk ICS control system pre-programmed to quickly and easily provide the cost efficiency, environmental sensitivity, monitoring, communications and safety that are the hallmarks of Cleaver-Brooks.

How It Works

The CB-Hawk ICS is custom designed for each application. The level of functionality varies depending on the needs of the end-user and the demands of the application itself.

The core functional elements of the CB-Hawk ICS reside in the Allen-Bradley Programmable Logic Controller (PLC). This PLC contains the functionality that allows for many levels of monitoring and control including multiple fuel capabilities (up to 3 fuels), O2 trim/monitoring and programming, communications with the combustion controller, control of the optional high-efficiency Variable Speed Drive (VSD), lead/lag (master/slave) multiple boiler control and monitoring and control of boiler water level. All of this monitoring and control data can be transmitted and displayed either on site or anywhere in the world via the PLC's flexible and powerful communications capabilities.

The CB-Hawk ICS also drives an easy-to-use Human Machine Interface (HMI) that displays a clear yet information packed Graphical User Interface (GUI).

So if you need to be informed of status and/or alarms remotely – the CB-Hawk ICS can do so via e-mail, pager, Blackberry (or similar device) or via an HTML (internet) interface.

The CB-Hawk ICS can easily share its data with Building Automation Systems (BAS) from companies such as Johnson Controls, Honeywell etc. If needed data can be shared using standard protocols with enterprise-wide systems such as SAP, J.D. Edwards, Baan etc. so that stakeholders in engineering, financial as well as process and building control can monitor boiler functionality remotely and in real time.

The CB-Hawk ICS delivers all of this functionality – while providing the most cost-efficient and safest boiler and combustion control available.

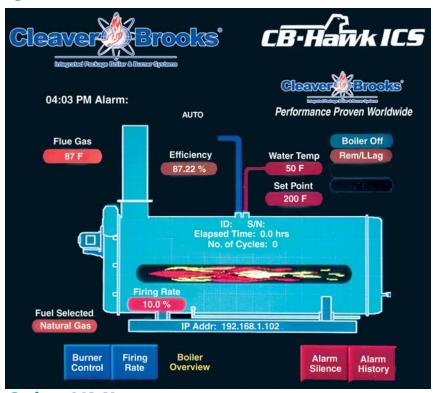


CB-Hawk ICS Key Features and Benefits

The following features and benefits are for a typical CB-Hawk ICS installation. Features will vary depending on the application.

- PLC-Based Control PLC technology is more reliable than PC or microprocessorbased technologies yielding increased uptime, safety and efficiency.
- Easy-to-Use Interface The CB-Hawk ICS drives an easy to use Human Machine Interface (HMI) that allows for quick and accurate boiler monitoring and control.
- Advanced Communications You can be alerted by e-mail, pager, voicemail, internal network or internet of boiler status and alarms, and this same data can be shared with building automation systems and enterprise-wide information technology systems.
- Integrated Control of Variable Speed

 Drives Variable speed drives can greatly enhance the energy efficiency of a boiler. The CB-Hawk ICS has Variable Speed Drive control programming included as part of its standard feature set. This allows VSD hardware to be added with no additional programming and integration.
- Powerful Capabilities With the ability to monitor and control multiple aspects of boiler control such as O2 levels, stack temperature, lead/lag sequencing, boiler efficiency, water level, temperature/pressure, hot stand-by and combustion control the CB-Hawk ICS delivers unmatched functionality at its price points.
- Boiler Control from the Boiler Designer The CB-Hawk ICS is fully integrated with the boiler as it is being built or easily configured to retrofit an existing unit. As the industries only fully-integrated boiler control and boiler manufacturing resource Cleaver-Brooks can deliver a boiler solution that is virtually plug and play.



Color HMI Color Human Machine Interfaces (HMIs) provide the maximum information return as they communicate data more quickly and clearly – especially when an operator is at a distance.



If you would like more information and/or a demonstration of the CB-Hawk ICS please contact us using the information below.

For further information on products and services used in this newsletter please contact us at:

WATERLOO MANUFACTURING COMPANY LIMITED

387 Phillip Street, P.O. Box 427, Waterloo, Ontario N2J 4B3
Phone (519) 884-0600 • Fax (519) 884-0213 • Toll free 1-800-265-8809 • www.waterloomanufacturing.ca