

## *Intelligent Boiler Control*

### **The Cleaver-Brooks CB-Hawk ICS Ultra IWT-100 Integrated Control System**

With the marketplace demanding an integrated, single source control solution for **industrial watertube boilers**, Cleaver-Brooks answers the call with the revolutionary Hawk ICS Ultra 100 boiler management control; Offering many standard core routines and a fixed set of options to maximize steam output while diligently monitoring, communicating, and controlling boiler operations, conserving precious fuel dollars and increasing uptime in the process.

#### **Standard features include:**

- Rockwell Automation's Allen-Bradley PLC based logic hardware
- Panel View Plus 10" Touch Screen Interface
- Fully integrated yet replaceable burner management system (Fireye or Honeywell)
- E-mail capability
- Paging capability
- Short term trending/data logging
- All commissioning through the integral HMI
- Hot standby control
- Low fire hold
- Pulse or 4-20 Ma output to actuators
- Modifiable Tag Name and ID
- CompactFlash cards for non-volatile program backup
- Low NOx control to 20 PPM

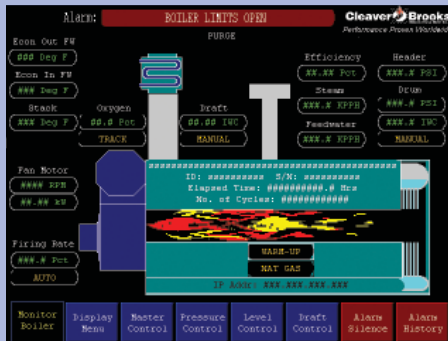


Aimed at industrial watertube boilers (D, A & O styles), this pre-engineered PLC based control package will address most of our customers requests for monitoring, trending, communicating and controlling of the boiler's primary functions and, can be applied or adapted to **new or retrofit boiler applications**.

# CB-Hawk ICS Ultra-100

## The Answer to High Performance Industrial Watertube Boiler Control

All Cleaver-Brooks, CB-Hawk ICS, PLC based control systems use Rockwell Automation's Allen-Bradley PLC as the logic hardware. Allen-Bradley PLCs are the "gold standard" in automation and digital control. Coupled with Cleaver-Brooks' industry leading boiler/burner and control expertise – the Hawk ICS has established the industry standard for functionality, flexibility, safety, fuel efficiency, low emissions and readily available parts.



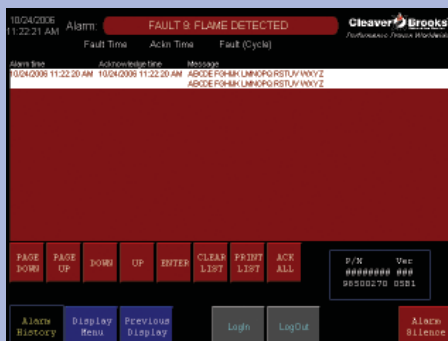
Overview Screen



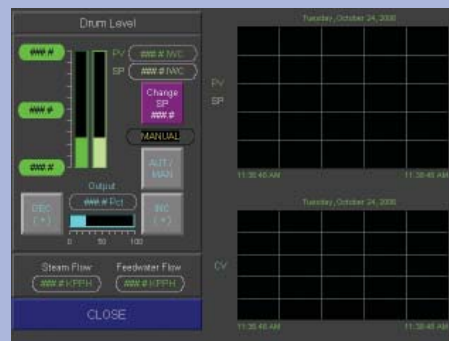
Typical Configuration Screen



Fuel Setup Screen



Alarm History



Drum Level Indicator



Burner Management System

# CB-Hawk ICS Ultra-100

When other special conditions exist, there are a limited number of I/O points which can be added; these providing the user with a basic option list from which to pick, further enhancing this already powerful package.

- 1, 2 & 3 Element feedwater control
- Single point or Parallel positioning of fuel and air
- Oxygen trim
- Variable speed drive
- Draft control
- Temperature and pressure compensation
- Flow totalization
- Multiple boiler sequencing with unison modulation

**Call:** (414) 359-0600 • **Write:** info@cleaver-brooks.com

