

# HAWK REPLACEMENT SYSTEM

## Product Overview

The Preferred **Hawk Replacement System** is a BurnerMate TS configured to be a replacement for obsolete CB Hawk and Honeywell BCS 7700 boiler controllers.

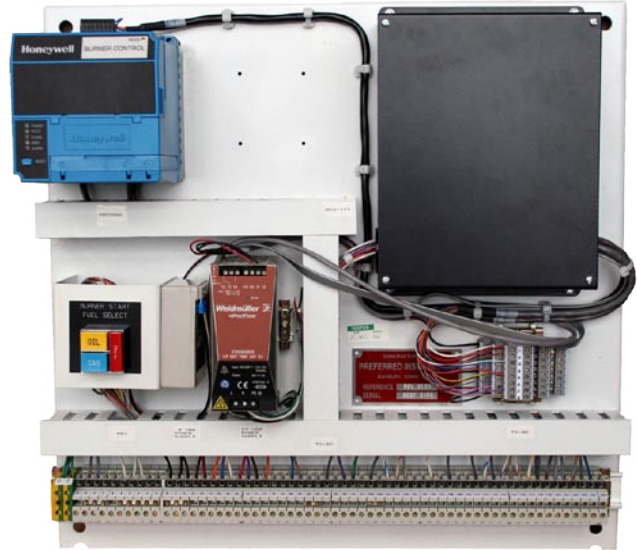
### Major Features Include:

- Direct replacement for existing boiler control panel sub-panel. Terminals provided for reconnecting existing reusable wires
- Existing control panel, entrance box, control switches, indications, flame scanner and operating limits are reused
- Automatic burner sequencing and flame supervision
- Firing rate control with thermal shock protection
- Simple touch screen operation with alarm and event summaries, real time and historical trending
- Remote monitoring through standard WEB browser
- Remote interface via Ethernet TCP/IP communication

### Minimized Installation Cost

Existing wiring, sensors and control cabinets are reused to the **maximum extent possible**. Only additional limit devices (gas and oil pressure switches) are included to meet the guidelines of the National Fire Protection Association (NFPA). Typical installation time for this system is 24 man-hours and an additional 2 hours for commissioning.

- 10.4" Touch Screen Operator Interface Terminal
- Fully wired and tested sub-panel replacement:
  - DCS-III Programmable Controller
  - RM 7800 Flame Safeguard
  - Power Supplies, interposing terminations and connectors to door-mounted color touch screen operator terminal



*Hawk Replacement Sub-Panel Fits Existing Hawk Enclosures*

### New Field Equipment Required

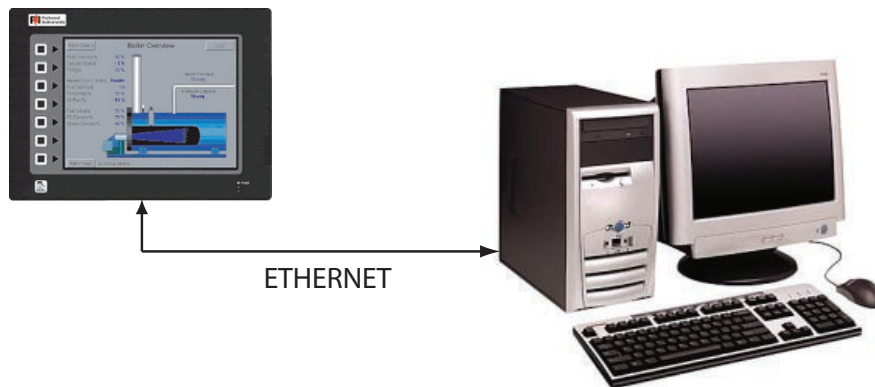
- Steam pressure or water temperature transmitter
- New damper servo motor actuator with feedback and limit switches
- Low and high gas pressure switches
- Low oil pressure switch

### Improved Accuracy

Outdated modulating motor is replaced with a state of the art, accurate Preferred Instruments SM-15 actuator.

OIT  
TOUCH SCREEN

PLANT  
DCS, BAS,  
EMS, SCADA, ETC.



*Preferred Hawk Replacement System Communicates Digitally by Modbus Ethernet OPC.*

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### Advanced Communication Interfacing

An Ethernet (TCP/IP) communication port is easily assigned an IP address and connected to a facility wide network. Building Automation Systems and SCADA Systems are interfaced via industry standard MODBUS Ethernet.

### Real Time and Historical Trends

Easy to use multiple pen charts allow quick system assessment and maintenance monitoring.

### Web Browser Remote Operation

Any PC that is connected via the Ethernet port can view displays using a standard Web browser. Historical alarm and event data can be imported to spreadsheet applications such as Microsoft Excel® (with optional flash card).

### Simple Touch Screen Operator Terminal

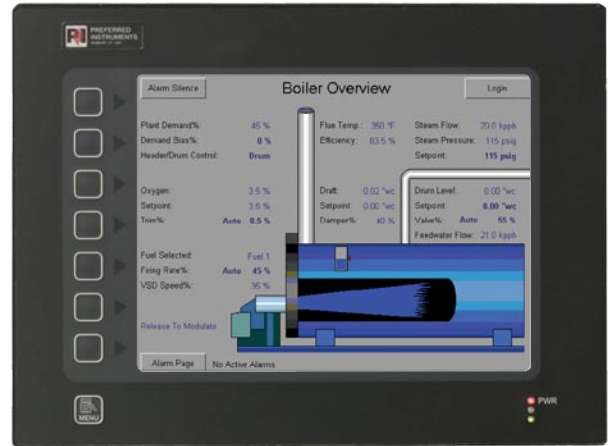
Monitor and control boiler operation, setpoints, process data, boiler faults and status from one convenient display. Commissioning and trouble shooting activities are laid out in an easy to follow step by step procedure, eliminating the need for knowledge of individual controller menus and programming languages.

### Improved Spare Parts Availability

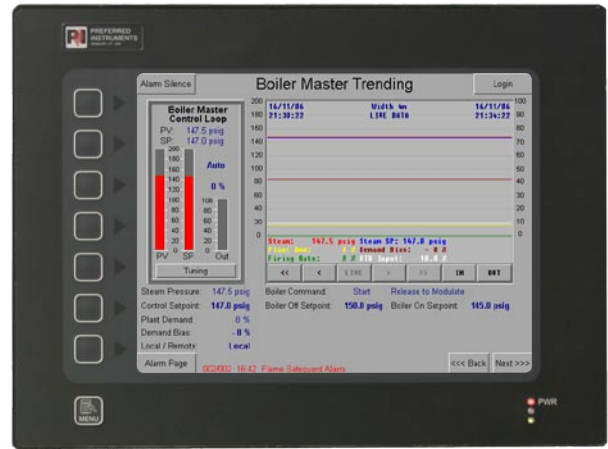
Industry standard controllers, actuator and limit devices are used. Replacement parts are in stock.

### Product Improvement

The Hawk Replacement System will soon be available with the Preferred 5004-M-85 flame safeguard controller, eliminating the need for separate amplifier cards and purge timers.



Boiler Overview Screen



Pre-Engineered Graphics Pages Allow Quick Commissioning

### Ordering Information:

Description	Catalog Number
Boiler Control Panel Upgrade Kit with assembled, pre-wired and tested subpanel assembly, gas only firing, 10" OIT, DCS-III, Honeywell 7800, SM-15 actuator, power supplies and terminals.	BM-Kit-G-OIT10
Boiler Control Panel Upgrade Kit with assembled, pre-wired and tested subpanel assembly, gas and oil firing, 10" OIT, DCS-III, Honeywell 7800, SM-15 actuator, power supplies, gas/ oil selector switch and terminals.	BM-Kit-GO-OIT10
UV Flame Scanner Amplifier	add "-UV" suffix
IR Flame Scanner Amplifier	add "-IR" suffix
30 Second Purge Card	add "-30" suffix
60 Second Purge Card	add "-60" suffix
90 Second Purge Card	add "-90" suffix

**Note:** Existing Hawk gas and oil pressure sensors must be replaced by pressure switches. (Not included in the kits)