

## Fuel Oil Handling Systems

Now more than ever before, we are able to construct complete custom engineered fuel oil pumping systems for light oil burners, emergency generators, mission critical environments. Preferred Utilities remote systems include micro-processor based tank gauging and interstitial space leak monitoring with a complete line fuel oil monitoring accessories.

## Preventative Maintenance Additives

Our fuel oil additives can help break up water droplets and disperse sludge to improve filtration efficiency, increase boiler and engine performance, and increase overall reliability. Removing unwanted water from fuel tanks helps prevent corrosion, prevent leaks, and lengthen tank life. When ordered with the CA-1 option, Preferred filtration systems will store and automatically inject measured quantities of fuel additives to help keep tanks free of sludge and water buildup.

## Field Maintenance Service

Behind every successful system implementation stands Preferred's highly trained staff of service engineers. We offer expert field service for the commissioning of both new systems and the routine maintenance of existing control systems. In addition to our staff of field service engineers, our factory authorized representative companies maintain service departments to provide prompt local service.

## Quality Assurance Compliance

Before any product can be released for consideration, it must pass our rigid standard assurance testing program. Our practice of extensive testing and real-life simulation provides you with a line of proven accessories and eliminates the need for start-up experiments.

## Free Product Training

Preferred offers regular technical and product training sessions at our Danbury Connecticut headquarters. Additionally, upon request sessions are provided throughout North America. Technical and product training helps save time and money. Please find our monthly training schedule on our website, [www.preferred-mfg.com](http://www.preferred-mfg.com), or contact your regional sales manager for details.



## Preferred Instruments

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## What's Inside:

- Boiler Controllers
- Burner Control Systems
- Feedwater Systems
- SCADA\Flex Systems
- Multiple Loop Controllers
- Draft Damper Assemblies
- Actuators



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Preferred Instruments manufactures microprocessor based controllers, instruments, and electric actuators for combustion and process applications. Preferred Instruments also manufactures oil tank gauging and leak detection equipment. A major component of the Instrument group sales is from control systems integration and personal computer based Supervisory Control and Data Acquisition systems.



# COMBUSTION TECHNOLOGY

## **BurnerMate Universal Industrial® Controller**

Our U.L. recognized and FM Approved expanded system offers complete fully metered boiler control in an economical, off-the-shelf, pre-programmed controller. Separate processors are used for flame safeguard and combustion control providing NFPA 85 compliance.

## **Chief Dispatcher® Modulating Lead/Lag Controller**

This advanced boiler sequencing, monitoring, and communication system provides lead lag control for up to ten boilers. The Chief Dispatcher® plant master optimizes boiler plant performance and helps extend boiler life for cast iron sectional, finned-tube, firebox, flexible tube or firetube boilers.

## **The Preferred Feedwater Center**

The Feedwater Center is designed to improve the control of boiler feedwater by modulating up to four feedwater pumps and three transfer pumps. Deaerator temperature, level, and chemical pumps are controlled to improve boiler quality.

## **UtilitySaver® Burner Control System**

The UtilitySaver® system is designed to minimize total energy consumption of a burner (both fuel and electricity usage). UtilitySaver combines the fuel savings of an Oxygen trim system with the electrical kWh savings of a Variable Speed Drive (VSD) FD fan.

## **SCADA /Flex Distributed Control**

This system's architecture allows integration of multiple power plant systems, including high and low pressure steam generators, high and low temperature hot water generators, chilled water plants and municipal service facilities.

## **CB Hawk Replacement System**

The Preferred Hawk Replacement System is a BurnerMate TS® configured to be a replacement for obsolete CB Hawk and Honeywell BCS 7700 boiler controllers. Existing wiring, sensors and control cabinets are reused to the maximum extent possible.

## **Draft Range Transmitter Assembly Model JC-22XMTR**

The Model E-Link Draft Damper Assembly pre-mounts a Model SM-15 servo actuator and JC-22XMTR Draft Range Transmitter Assembly. Only a stack draft connection is required. The Model E-Link Draft Damper Assembly is part of a full scope control package that assures safe and efficient control with undivided system responsibility.

## **Multiple Loop Controller Model PCC-III**

The JC-30D Smoke Opacity Monitor is a microprocessor-based Indicating Instrument with a smoke duct mounted optical sensing assembly. The system provides a continuous opacity readout, alarm indication and shutdown capability.

## **Smoke Opacity Monitoring System Model JC-30D**

The JC-30D Smoke Opacity Monitor is a microprocessor-based Indicating Instrument with a smoke duct mounted optical sensing assembly. The system provides a continuous opacity readout, alarm indication and shutdown capability.

## **Servo Actuator Model UM**

The Model UM Servo Actuator provides directly connected and precise modulating control of fuel valves and combustion air & flue gas control dampers. The actuator opens, modulates, and closes the valves and/or dampers in accordance with the integrated combustion control and burner management system programs.

## **Link Trim Actuator Model LTA**

The Link Trim Actuator is an easy to install actuator used for Oxygen Trim control on single point positioning (Jackshaft) burners. The LTA mounts in-line as part of the burner fan damper linkage rod assembly.

