



PREFERRED INSTRUMENTS

A division of Preferred Utilities Manufacturing Corp.

MANUFACTURERS OF COMBUSTION CONTROLS AND CONTROL SYSTEMS

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Press Release

Boiler Monitoring Instruments **Enhance Safety and Efficiency**

Danbury, CT – March 1, 2004 – Preferred Instruments announces the JCxxD family of digital Boiler Monitoring Instruments. The JCxxD family features an LCD display with vertical bar graph, 5-digit numeric display, easy to navigate English language menus, 10A SPST relays, 4-20 mA output, and RS 485 Modbus communications.

- **JC-22D Draft Control System:** Draft control systems increase boiler efficiency by reducing the air infiltration into the furnace, which results in heat loss up the stack. The JC-22D's firing rate feed-forward logic insures stable burner Flue Gas Recirculation (FGR) flow and NOx levels. With its ability to accept a direct 4-20 mA draft transmitter input signal, 120 Vac flame safeguard & boiler firing rate potentiometer signals, and output a solid state switching (triac) outlet damper actuator control signal, the Preferred Instruments JC-22D Furnace Draft Controller is the right choice for improving your boiler efficiency and maintaining low NOx levels.
- **JC-30D Smoke Opacity Monitor:** The Preferred Instruments JC-30D Smoke Opacity Monitor assures an accurate measurement of the smoke opacity from boilers, incinerators, kilns, and similar sources of intermittent, visible emissions. JC-30D automatically re-calibrates itself every time the burner shuts down to sustained accuracy. With its continuous opacity readout, alarm indication, and burner shutdown capability, the Preferred Instruments JC-30D Smoke Opacity Monitor will ensure an efficient and safe boiler operation.
- **JC-15D Flue Gas Temperature Monitor:** An elevated stack temperature is an indication of reduced boiler efficiency while a dangerously high stack temperature due to a low water condition places the boiler at risk of serious damage. The Preferred Instruments JC-15D Flue Gas Temperature Monitor can prevent these conditions from happening by continuously providing clear flue gas temperature status through an intuitive bar graph display and alarm messages. A burner shutdown relay is also available to help prevent boiler damage due to excessively high temperatures.

Contact us today to find out how these JCxxD family of digital Boiler Monitoring Instruments can enhance your boiler plant's safety and efficiency. More information can be found at our Web Site:

www.preferredinstruments.com