Dependable process control starts with proven components.

**5004 series Flame Safeguard Controllers**

Reliable, industry-proven scanners and controllers continuously monitor burners and external limits to provide the first layer of defense against upset conditions. Features include:

- Selectable trip for ignition timing
- Selectable interlocked or intermitent pilot
- Adjustable air/fuel ratio
- Flame signal test jack accessible from controller front panel
- Scanners available with ultraviolet, infrared, and UV self-shading detection
- Scanners feature standard flame-intensity outputs, relay contact closures, or 4-20mA flame-intensity outputs

Compatible with Preferred, Fireye, Honeywell, Siemens, and PCI controls.

**PCC-III Multiple Loop Controller**

Blackwared programmed for virtually any application through the replaceable or reusable Windows-based PCC-III, Edit or PCC-III, Draw software. The CPU and up to four I/O expansion boards allows:

- Analog inputs (4-20 mA & 0-10 VDC)
- Digital inputs (120 VAC, optically isolated)
- Steep oxygen input directly through the Preferred ZP zirconium oxide in-situ oxygen probe
- Analog outputs (4-20 mA)

Discrete outputs (120 VAC & 24 VDC)

Analog outputs (4-20 mA)

Triac outputs for driving servos with position feedback

In addition, an RS-485 port provides up to 38,400 baud Modbus communication to a Preferred color touch screen DCS, or a plant DCS. Reliability is enhanced with four password levels and non-volatile memory.

**SCADA/FLEX Data Acquisition and Monitoring System**

Provides remote monitoring and control capabilities to optimize fuel usage, reduce emissions, and identify important process trends. Operating in conjunction with Windows XP, SCADA/FLEX, or plant DCS system. The 5004 series flame safeguard controller and one or more multiple loop controllers communicate via Modbus to a 17" color touch screen. Graphics pages typically include process overviews, first-out alarm annunciation, and event history. Input/output status and loop tuning pages are provided for easy system commissioning and trouble-shooting. The BurnerMate TS can communicate externally to a plant-wide DCS or SCADA/FLEX system via Modbus, Ethernet, TCP/IP, AB DH 485, or many other open protocols.

**5003 Quanta-Max**

The 5003 Quanta-Max is a microprocessor-controlled communication system. It provides for up to eight or sixteen flame sensor inputs, if it monitors and converts to a contact signal, single or multi zone sensor outputs. The 5003 combined with a primary burner control is a very cost-effective multiple burner control or monitoring system. The Quanta-Max also features RS-485 communications in a PLC or plant-wide DCS.

**JC-15D Temperature Monitor**

A microprocessor-based indicating instrument complete with a heavy-duty thermocouple assembly. Process temperature is continuously displayed on a backlit LCD display. The JC-15D comes complete with alarm contacts, selectable set points and all field selectable. All adjustments can be made directly from the control's faceplate using user-friendly menus.

**The JC-22D Draft Controller**

A microprocessor-based draft controller. By controlling the furnace or oven draft excess air can be reduced and burner efficiency increased. The JC-22D inputs include a 4-20 mA draft transmitter signal, 120 VAC flame safeguard interface, and outputs include a solid-state contact or 4-20 mA outlet damper actuator control.

**JC-36D Smoke Opacity Monitor**

An inexpensive microprocessor-based opacity monitor featuring a single-pass, staight-mounted light source and detector. For use on burners, furnaces, etc., or any application where opacity indication is required. The large, back-lit display provides local opacity indication, 4-20 mA output, alarm relay output, and Modbus interface link the JC-36D to an external process control such as the BurnerMate TS, SCADA/FLEX, or plant DCS system.

**Plant Wide Controller (PWC)**

A sequencing, control and monitoring system. The PWC combines innovative ideas of operation, communication and expansion capabilities. This is an industrial type PLC control dedicated to large oven or furnace systems. It has the capability to control and monitor all critical parameters within the process plant. In addition it can communicate using standard Modbus protocol for easy integration with Building/Automation System or local devices. The PWC is a complete plant monitoring, control and communication interface.

Preferred Process Control is a synthesis of the products of GN Electronics and Preferred Instruments. Whether your goal is increasing automation, reducing fuel costs, or remotely monitoring your control processes, our wide range of available products and expert engineers can put together the most cost effective solution for your control needs.
Monitor & Control up to eight burners with one
flame safeguard system and loop controller.

Custom Process Control Integration
Preferred Process Control components are available as loose parts
to be integrated by others, or we can provide a custom engineered
solution to meet your plant’s needs. PPC engineers are experts in
flame safeguard, combustion control, and process control systems
designed in accordance with NFPA. Our U.L. 508 panel fabrication
facility ensures your system will be built to the highest standards of
quality and workmanship.

Factory Support
Preferred has more than 60 employees including four outside sales managers,
and field service providers around the country. Our products are Made in the
USA and are stocked in our factories in Danbury CT and Rockford, IL.

Represented by:

CS-PPC-1

Preferred Process Control
Division of Preferred Utilities Manufacturing Corporation
31-35 South St., Danbury, CT 06810 U.S.A.
TEL: (203) 743-6741  FAX: (203) 798-7313
www.preferredinstruments.com