

ECLIPSE MULTI-FLAME MONITORING SYSTEMS

Microprocessor-Controlled Systems for Multiple Burner Systems

*The standard of comparison
in monitoring technology*

Monitor, diagnose, troubleshoot and control multiple burners

Eclipse Multi-Flame Monitoring System controls and monitors the flame of up to 20 gas, oil or combination gas/oil burners connected to a common valve train. Its advanced Eclipse microprocessor technology provides continuous protection against buildup of combustible fuel mixtures due to flame failure or other system faults.

Its integrated features reduce system cost and simplify control of the new burner sequences required by agency standards. Consider these additional Eclipse-exclusive, user-friendly features:

- Space saving design.
- Solid state controls and small plug-in modules.
- Unique Peek-A-Flame sensing modules available for use with ultraviolet scanners or flame rods let you conveniently monitor and measure the flame signal strength of each burner in the system.
- "Smart control" diagnostic capabilities let you quickly pinpoint, analyze and correct problems.
- Modulation capability simplifies code compliance.
- Remote alphanumeric display.



- Communications interface (RS232/RS485) to monitor, store, retrieve data from your computer.
- Valve leakage test sequence.

Everything's easier!

DIP switches simplify setting sequence and timing functions as well as facilitating total system configuration. Microprocessor control simplifies fault and relay testing, dynamic on-board testing and proof-of-valve-closure testing.

There's a special test mode for pilot flame adjustments and a special air switch monitor to verify air switch is open before the combustion air blower is started.

Multi-Flame Monitoring System

The most compact system in the world.

Logic Module – Houses the micro-computer, which provides all sequential logic and safety start-up and shutdown circuitry. Status lights and the push-button controls for reset, scan and enter functions are clustered on the face of this module.

Remote Communication Capabilities – Compute sequence history, including flame strength, for system analysis.

Relay Module – Contains the output relays that provide power for the ignition coil, pilot valve, main valve, combustion fan and alarm.

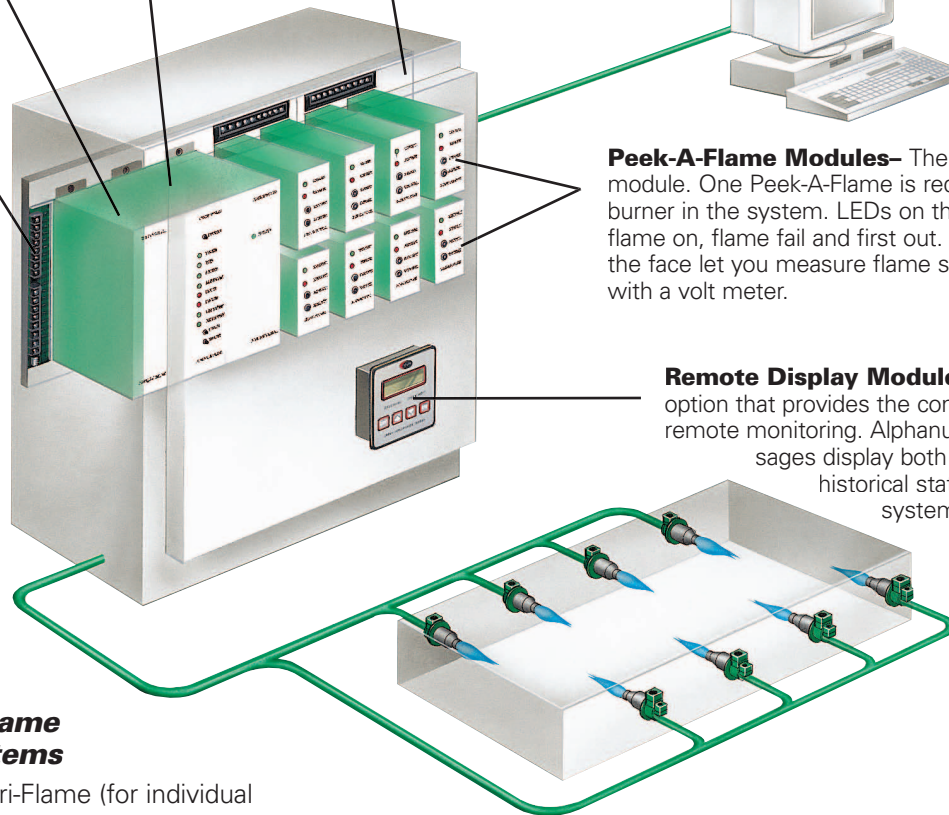
Expansion Board – Required for systems with more than 4 burners. Connects to the Mother Board and holds additional Peek-A-Flame Modules.

Mother Board – Accommodates all modules necessary for a system containing up to 4 burners.



Peek-A-Flame Modules – The flame-sensing module. One Peek-A-Flame is required for each burner in the system. LEDs on the front indicate flame on, flame fail and first out. Test jacks on the face let you measure flame signal strength with a volt meter.

Multi-Flame 8-Burner Application



Remote Display Module – A useful option that provides the convenience of remote monitoring. Alphanumeric messages display both real-time and historical status of the entire system.

Other Eclipse Flame Monitoring Systems

Ask about Eclipse Veri-Flame (for individual valve train application) and Bi-Flame (for two burners sharing a common valve train) microprocessor-controlled flame monitoring systems, and the Peek-A-Flame (for simple flame detection without control sequence).

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