

# UNIFLUX<sup>®</sup>/Exotherm

To our valued customers:

We want to let you know that we are available to help you keep your Uniflux heater operating reliably, safely, and efficiently. We provide complete support for you heater, which includes the following services:

- Field Service
- Original Equipment Parts
- Engineering Support for Upgrades for your Equipment
- Reference to Original Engineering Files, Drawings, Manuals and Manufacturing Records
- Complete Insurance Coverage

Details of these services are explained below:

## **Field Service**

We offer field service provided by knowledgeable and professional field service representatives. Our field service personnel have years of experience servicing heaters, burners, and combustion systems. Our representatives are skilled in troubleshooting instrumentation and combustion problems. They can provide training for your operating and maintenance personnel.

One of the key benefits to Exotherm personnel is their familiarity with Uniflux heaters. Using Exotherm personnel relieves the concerns for plant personnel and equipment that occur when someone unfamiliar with your heater works on them. Remember that process heaters are not simply boilers in another service. They have different operating hazards; therefore only qualified personnel should work on Uniflux heaters. Our Field Service Representatives work on Uniflux heaters frequently and can efficiently and competently solve your problems.

## **Original Equipment Parts**

We can supply original equipment parts for your Uniflux heater. We have the original drawings and specifications to supply the exact replacement parts, whether it is a burner, heat transfer coil, instrument or valve. We carry many instrument and burner control components in stock for same day shipment. We have Original Equipment Manufacturing (OEM) status with many combustion equipment manufacturers including Honeywell, Fireye, and Maxon. This allows us to supply your parts requirements with the exact original equipment components, with priority deliveries and competitive prices.

We at Exotherm Corporation value you as our customer. If we can be of assistance, please contact our Technical Services Department at 713-981-9100 x 11 to schedule a field service representative. You can also ask to speak to an engineer for over-the-phone technical assistance. You can also email us at [service@exotherm.com](mailto:service@exotherm.com).

## **Upgrades**

As time passes, industrial codes and technology progress and change. A great many Uniflux heaters are still in use 20, 30, even 40 years after they were purchased. While this is a testament to the longevity and reliability of the Uniflux heater, it also means that many Customers are using Uniflux heaters with outdated controls systems. Exotherm can make an assessment of the controls system on your Uniflux heater and determine what changes (if any) are necessary for the heater to comply with current codes and standards. We can also offer new, more user-friendly control systems. One featured upgrade is shown on the attached pages. The Maxon Smartlink control valve system replaces the MicroRatio control valves in fuel gas and combustion air control. It provides tamper-resistant control, as well as increased reliability and turndown. Please call for a quotation.

Thank you,  
Exotherm Corporation

*Quality Heaters Since 1957*

# SMARTLINK™ MRV

## Intelligent MICRO-RATIO® Valve Series



- **Optimize fuel efficiency and meet stringent emissions standards** through precise, repeatable flow control.
- **SMARTLINK™ MRV is an electronic parallel positioning system** for air/fuel ratio control; for use in industrial applications requiring a high degree of precision, repeatability and durability.
- **Complete system** includes up to four valves and a Control Interface Unit to electronically link the valves to the user's process controller.
- **Factory-calibrated valve and actuator assembly** includes NEMA 4X valve actuators with integrated position feedback and heavy duty planetary gearheads for reliable, long life operation.
- **Compact, robust valve design** mounts in any orientation without additional support.
- **Each SMARTLINK™ Valve is continuous duty and fully adjustable** to 0.1 degrees accuracy.
- **Control Interface stores a 22 point user-customized position profile** for each valve; offered in several configurations with optional equipment available.
- **Non-incendive for Class I Division 2** Groups A, B, C and D Hazardous (Classified) Indoor and Outdoor (Type 4X for Valve Actuator) locations.
- **Maintenance-free operation**; no lubrication required.
- **Electronic passcode protection** eliminates valve profile tampering.
- **Simple set-up**; no PC required.



## SMARTLINK™ MRV

### Intelligent MICRO-RATIO® Valve Series

The Maxon SMARTLINK™ MICRO-RATIO® Valve (MRV) is an industrial parallel positioning system for combustion applications that require a high degree of precision, repeatability, tamper resistance, and durability. In addition, SMARTLINK™ MRV interfaces with all burner management and flame safety systems, simplifying retrofit applications. The system is simple to set-up and does not require a personal computer in the field for commissioning.

SMARTLINK™ MRV includes: a) 2, 3, or 4 Valve Actuators directly coupled to Maxon valves, and b) a Control Interface unit which serves as a manual station, commissioning interface, and “gateway” between the Valve Actuators and the user’s process controller, PLC, or distributed control system (DCS).

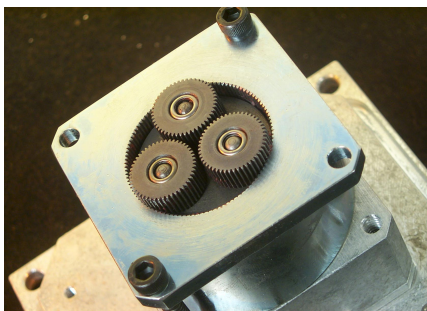
The Control Interface also synchronizes valve movement and is available in a complete factory-wired assembly with a NEMA 4X enclosure. This “packaged” solution is Class I, Division 2 approved and eliminates the need for purging systems. It provides a turnkey, electronic air/fuel ratio control solution for hazardous petrochemical environments.

The SMARTLINK™ **Valve Actuator** design is an industrial rated, factory-calibrated assembly. It incorporates a heavy-duty, planetary gear-head with integrated, long-life position feedback and a stepper motor for continuous duty, high precision control of Maxon control valves. Each Valve Actuator is powered by 24VDC and includes a digital position control loop and a communications interface that ensures reliable operation in electrically noisy environments. The small footprint, NEMA 4X and Class I, Division 2 approvals, and superior position control performance make this product a very attractive alternative to pneumatic equipment.



SMARTLINK® gas valve (above) and air valve (right) assemblies

The SMARTLINK™ MRV **Control Interface** is a DIN rail-mounted device that electronically “links” and synchronizes valve movement for precision air/fuel ratio control. Several front-mounted switches and lights are provided for displaying alarms, system configuration, and valve characterization. The Control Interface also provides a precision 4-20mA firing rate feedback signal. The unit is offered in a number of configurations. Optional equipment includes Maxon Relay Input and Output Interfaces, a User Display, universal power supply, factory-wired panel assemblies, and several NEMA 4X enclosures.



Inside view of SMARTLINK® Actuator, showing planetary gear heads.

Control Interface with optional User Display, Relay Input, Output, and Network Interfaces in pre-wired panel assembly

