

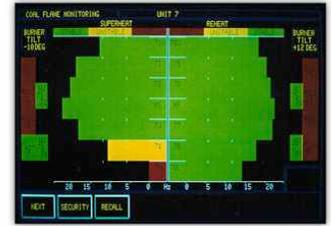
Accu-Flame

Boiler Flame Stability Monitoring



Finally, there is a method of Boiler Flame Monitoring that you can depend on. No more tedious calibration. No more complicated setup procedures. No more guesswork, just accurate, reliable indication of flame quality. The MPS Accu-Flame Sensor is unlike any other flame scanner, utilizing the most advanced technology available, to provide real-time indication of flame quality.

While flame scanner manufacturers try to develop and introduce better technologies, Accu-Flame Sensors continue to perform. So reliable, they can safely be tied into the "trip" of the boiler. Not relying on inconsistent UV, IR, or intensity readings, the proprietary photocell monitors and processes the flicker frequency of flame in the visual light spectrum, even through dust, ash, and condensation. Hot spots, radiant heat, and other non-flicker heat sources are ignored, eliminating false alarms.



Graphical Display of Flame Quality



Integrated LCD for Quick Reference and Easy Setup

EASY - From installation to everyday use. No external racks or cabinets clutter your control room. A simple 4-20mA connection is all that is required. No repeat calibration. Utilize existing sight tubes. It's the simplest installation of any system.

ACCURATE - We designed the easiest system to install and use, but that doesn't make this a basic sensor. Inside is a sophisticated microprocessor, providing real-time indication of flame quality, not based on intensity readings, but by constantly monitoring and evaluating the flicker frequency of a given burner flame.

RELIABLE - With systems in continuous use for over 15 years, the Accu-Flame method of flame stability monitoring has proven so effective that it can safely be tied to the trip mechanism of the boiler. It's so dependable, you may just forget you have any equipment, and simply come to depend on accurate flame monitoring.

MPS Accu-Flame Sensors can help:

Reduce supplemental fuel costs during start up and at low-load conditions.

Reduce maintenance costs from older systems, eliminating mechanical shutters, bulbs, and fiber optic cables.

Reduce emissions by monitoring the exact condition of flame at individual burners.

Increase boiler efficiency by controlling combustion with "real time" monitoring.

Eliminate equipment in the control / logic room by connecting directly into your boiler management system with the 4-20mA current loop.



Removing the heavy-duty cover reveals contacts and four simple push-buttons. Unlike other sensors, the Accu-Flame does not require the use of external components, or computers to set up.

The standard 4-20mA current loop allows for connecting to your existing Boiler Management System, to generate a graphical display of flame *quality*. Additionally, digital relay contacts provide separate indication of Flame On / Flame Off.

The Accu-Flame Sensor is truly the simplest way to monitor boiler flame quality. Calibrated at the factory, a simple one-time setup insures accurate readings, allowing you to set and forget.

Your job just got easier.

EASY
ACCURATE
RELIABLE



For high-temperature applications, such as cyclone boilers, we designed the 16283 Hi-Temp Accu-Flame Sensor. When used with optional heat shield and thermal barrier, it is able to withstand the toughest applications, where other sensors fail. An integrated LED display allows for simple setup, as well as quick reference of flame quality readings.

In addition to our Hi-Temp Sensor, MPS Talentum offers several specialized sensors, providing the same easy, accurate, reliable indication of flame quality for every boiler application including our:

Dual-Fuel Sensor - for monitoring multiple mainflame fuels from a single source, such as Oil and Coal.

Gas Flame Sensor - for invisible gas flames, the 16796 Sensor provides the same simple setup and reliable performance of our standard Accu-Flame sensor.



The MPS Test Unit offers a simple and reliable way to test a full range of flame sensors and fire detection sensors.

Featuring a wide spectral output, it is designed to test multiple sensor types, including:

- Ultraviolet (UV)
- Infrared (IR)
- Dual-Infrared (IR2)
- Triple-Infrared (IR3)
- Ultraviolet/Infrared (UV/IR)
- Mid-Infrared
- Near-Infrared
- Visible Light

A selectable output generates constant illumination, regular flashing frequencies, and irregular flashing frequencies (simulating flickering flame).

The Test Unit is completely portable, with rechargeable NiCad battery pack and charger, with auxiliary 24V DC supply.



industrial grade sensors for harsh environments, equipment has been in operation in the United States since 1987. Talentum, together with MPS Inc.'s more than 20 years of experience, provides sound technology for today's power generators, helping fossil fueled power plants increase safety and efficiency.

MPS TALENTUM is a unit of Mine & Process Service Inc., representing Talentum Developments Ltd. in North America. Since 1968, Talentum has been providing fire detection and flame monitoring equipment for industry around the world. Specializing in