



**Flame Scanner** was designed to detect and respond to the presence of a flame or fire. Responses to a detected flame depend on the installation, but can include sounding an alarm, deactivating a fuel line such as a propane or natural gas line, and activating a fire suppression system. When used in applications such as industrial furnaces, their role is to provide confirmation that the furnace is properly lit; in these cases they take no direct action beyond notifying the operator or control system

## ZEECO® ProFlame Integrated Flame Scanners

**Zeeco** offers a complete line of integrated flame scanners that provide reliable flame detection and superior background flame signal suppression for single and multiple burner applications.

The ZEECO ProFlame and ProFlame+ series are primarily used in power, wastewater treatment and industrial plants, as well as refineries, pulp and paper, steel, or other industries with furnaces that fire oil, gas, coal, biomass, chemicals and other waste products.



### ProFlame **Industrial Grade** scanners

#### □ Model : ZPF-110 (Zone 1 hazardous)



- ZPF-110 is uniquely designed for use in Zone 1 hazardous areas, II 2G EExd IIC T6
- Dual signal channel with electronic self-check for SIL3 applications
- Intuitive display to assist in troubleshooting
- Easily configurable frequency and gain settings for simple set-up
- Low power consumption with a 24V dc supply
- Reliable 4-to-20 mA flame intensity output

### Operating Parameters - Output

- ◆ Output relay: SPDT, Flame-On is the N.O. contact, Flame-Off is the N.C. contact
- ◆ Flame intensity output: 4 to 20 mA
- ◆ Flame status indication: Flame-On LED, Flame-Off LED, Flame intensity bar graph



## □ Model : ZPF-120 (Zone 2 hazardous)

- ZPF-120 is uniquely designed for use in Zone 2 hazardous areas, II 3G EEx nA IIC T6
- Dual signal channel with electronic self-check for SIL3 applications
- Intuitive display to assist in troubleshooting
- Easily configurable frequency and gain settings for simple set-up
- Low power consumption with a 24V dc supply
- Reliable 4-to-20 mA flame intensity output

### Operating Parameters – Output

- ◆ Output relay: SPDT, Flame-On is the N.O. contact, Flame-Off is the N.C. contact
- ◆ Flame intensity output: 4 to 20 mA
- ◆ Flame status indication: Flame-On LED, Flame-Off LED, Flame intensity bar graph

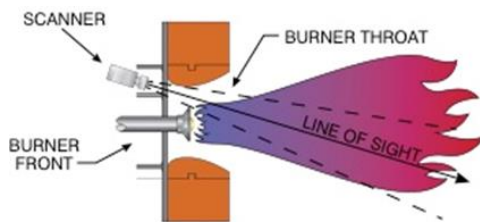


## □ Model : ZPF-130 (Non hazardous)

- ZPF-130 is uniquely designed for use in non hazardous areas (Safe zone)
- Dual signal channel with electronic self-check for SIL3 applications
- Intuitive display to assist in troubleshooting
- Easily configurable frequency and gain settings for simple set-up
- Low power consumption with a 24V dc supply
- Reliable 4-to-20 mA flame intensity output

### Operating Parameters – Output

- ◆ Output relay: SPDT, Flame-On is the N.O. contact, Flame-Off is the N.C. contact
- ◆ Flame intensity output: 4 to 20 mA
- ◆ Flame status indication: Flame-On LED, Flame-Off LED, Flame intensity bar graph



NOT THIS



NOT THIS



BUT THIS

## ProFlame+™ Utility Grade scanners

### ❑ Model ZPF-1100UV / Model ZPF-1100IR / Model ZPF-1100DS ( Zone 1 Hazardous)



- ZPF-1100 is uniquely designed for use in Zone 1 hazardous areas, II 2 G EExd IIC T6; II 2 D IP 66 T 80°C
- Compact, fully integrated and exceptionally reliable
- Microprocessor-based with electronic self-check for SIL3 applications
- Intuitive PC-based software to assist in troubleshooting
- Easily configurable frequency and gain settings for simple set-up
- Independently adjustable Flame-On and Flame-Off response times: 1-6 sec.
- Reliable 4-to-20 mA flame intensity output

#### Operating Parameters – Output

- ◆ Output relay: SPDT, Flame-On is the N.O. contact, Flame-Off is the N.C. contact
- ◆ Flame intensity output: 0/4 to 20 mA
- ◆ Flame status indication: Yellow LED for local Flame-On indication and Green LED for intensity. Flame signal trending, flame relay, marginal relay, flicker frequency, flame amplitude and raw signal analysis via PC-based scanner software.

### ❑ Model ZPF-1200UV / Model ZPF-1200IR / Model ZPF-1200DS ( Zone 2 Hazardous)



- ZPF-1200 is uniquely designed for use in Zone 2 hazardous areas, II 3 G Ex nA IIC T4
- Compact, fully integrated and exceptionally reliable
- Microprocessor-based with electronic self-check for SIL3 applications
- Intuitive PC-based software to assist in troubleshooting
- Easily configurable frequency and gain settings for simple set-up
- Independently adjustable Flame-On and Flame-Off response times: 1-6 sec.
- Reliable 4-to-20 mA flame intensity output

#### Operating Parameters – Output

- ◆ Output relay: SPDT, Flame-On is the N.O. contact, Flame-Off is the N.C. contact
- ◆ Flame intensity output: 0/4 to 20 mA
- ◆ Flame status indication: Yellow LED for local Flame-On indication and Green LED for intensity. Flame signal trending, flame relay, marginal relay, flicker frequency, flame amplitude and raw signal analysis via PC-based scanner software.