



Flame Safeguard

Introduction

The Flame Safeguard is a critical part of the control and safe operation of the Burner Management System for any industrial combustion system. The complexity of industrial applications can vary considerably. Correctly matching the system requirements with the flame safeguard capabilities is significant to the reliability and safety of the system.



As with any industrial application, there are inherent hazards and risks that are part of a combustion process. The flame safeguard monitors the safety interlocks, sequences the combustion process, and can provide important feedback and annunciation to equipment operators. Some of the typical features of an industrial flame safeguard include:

- Sequencing the startup and shutdown process of the combustion system
- Monitoring the safe limits and process interlocks required for safe operation of the combustion system
- Controlling the purging process for the system prior to ignition
- Sequencing the ignition process
- Controlling the fuel safety shut off valves for the burner
- Continuous monitoring the pilot and main flame of the burner for safe operation
- Releasing the burner for normal operation once the safe operating parameters have been established
- Providing an alarm output and fault annunciation when issues arise

Videos



[Field Calibration](#)



[LME71 Flame Safeguard](#)

Support

The primary role of the flame safeguard is to manage the combustion process. Each process application will have unique requirements for the safe operation of the burner system. Let our experienced staff help you with your next application.

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