

DIGITAL SOUNDPROOF PILOT MONITORING SYSTEM

The Wave of the Future

It is essential that flare pilots remain lit in order to provide safe, effective waste gas disposal. With our Digital SoundProof® Pilot Monitoring System — a reliable, grade-mounted acoustic pilot monitoring system — you can continuously and accurately verify your pilot flame status.

- Fail-safe from board failure to sensor outage, the Digital SoundProof Pilot Monitoring System also responds rapidly to inform the operator if a pilot is extinguished.
- At-grade mounting ensures easy installation and maintenance — all without shutting down the flare. In addition, there are no parts located in the high-heat zone, extending the system's useful life.
- System can be dedicated to up to four pilots, enabling you to monitor outages on each individual pilot. The sensor uses the flame front ignition line for sound transmission to determine the pilot status by listening to the acoustic signal generated by that pilot.

Additional Features

- User-friendly interface
- Self-checking and calibration loop verifies proper operation
- Rugged sensor and electronics
- Simple installation and maintenance during flare operation
- Weather resistant
- Digital and analog outputs for each sensor

SoundProof®
Digital Pilot Monitoring System

The SoundProof sensor is rugged and can be mounted at the base of the flare.



Reliability Like No Other

Flare-pilot verification is an increasingly important and often mandatory requirement for today's flare systems. However, remote location and inaccessibility during flare operation make pilot-flame verification a challenge. Furthermore, common flare pilot-monitoring systems, such as thermocouples and infrared monitors, are plagued with accessibility and dependability problems. Upon exploring the flame-product characteristics of heat, ionized gas, light and sound, John Zink developed the Digital SoundProof Pilot Monitoring System to remotely monitor the pilot flame with sound detection. The system, which uses an acoustic sensor and a signal processor, recognizes pilot sounds through the flame front generator line. Acoustic data are then conveyed from the sensor to the signal processor where they are analyzed in order to accurately signal the pilot flame status.

Immediate Verification. Reliable Performance.

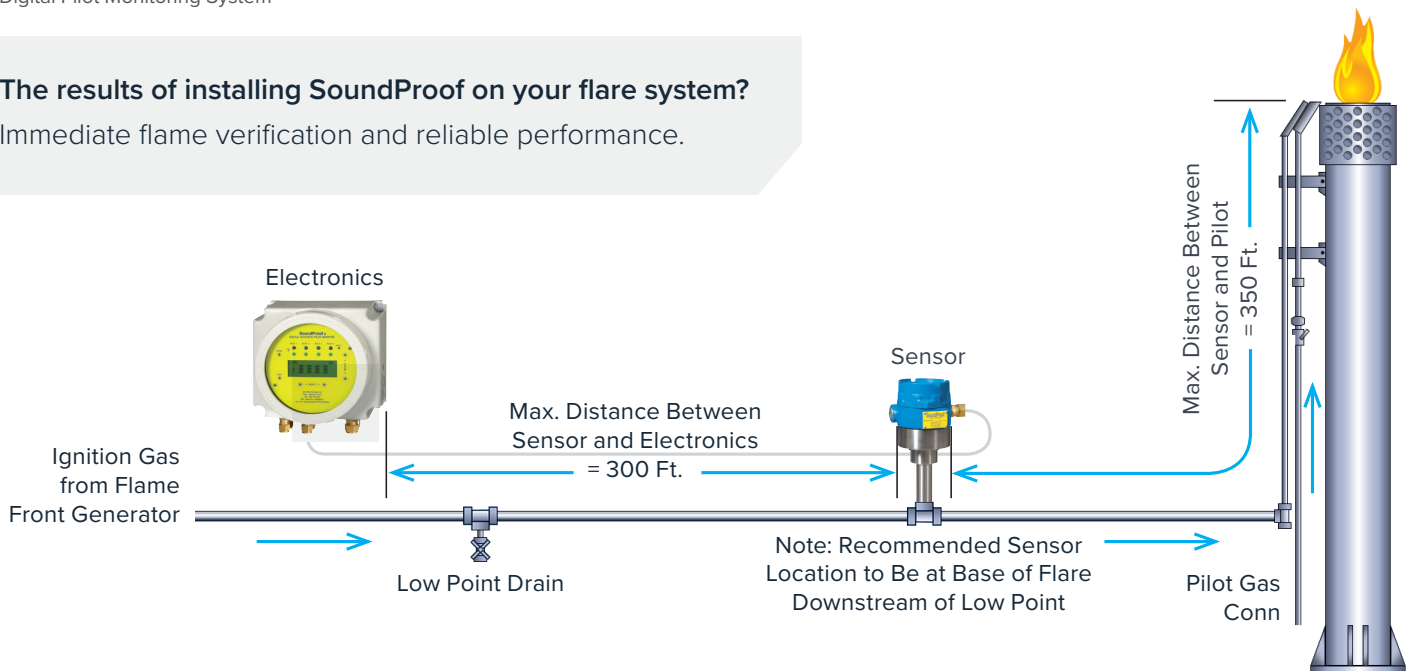
Every day, process plants are challenged to operate efficiently while monitoring their flare system pilots for the presence of a flame. These challenges inspired us to develop the Digital SoundProof Pilot Monitoring System, providing immediate flame verification and performance you can count on.

- The sensor can be located up to 350 feet (110 meters) from the pilot when firing natural gas, range varies with gas composition
- The electronics package can be located up to 300 feet (90 meters) from the sensor
- Sensor and electronics are available in EEx d IIc, EEx m, and IP66 ratings. Enclosure also available in NEMA 4/7
- Compatible with John Zink® EEP series, WindPROOF™ and InstaFire® flare pilots



The results of installing SoundProof on your flare system?

Immediate flame verification and reliable performance.



To learn more about Digital SoundProof, contact us at flareparts@johnzink.com.

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