

# PUMP GUARDIAN

Advanced Pump Protection for Thermal Fluid Systems

## Prevent Failure Before It Happens

Pump Guardian is TFS' patented pump protection technology, designed to reduce the risk of catastrophic failure, fire, and unplanned downtime.

It combines early detection, physical protection, and automated response to safeguard people, plant, and production.



### A LAYERED APPROACH TO SAFETY

Pump Guardian is a fully integrated protection system designed to:

- Prevent ignition
- Detect failure early
- Stop escalation before it becomes a major incident

Ideal for environments using hot, flammable thermal fluids.



### WHY CHOOSE PUMP GUARDIAN?

- Reduces fire and explosion risk
- Minimises unplanned downtime
- Protects critical assets
- Enhances personnel safety
- Improves operational confidence

# CORE PROTECTION FEATURES

## PUMP SHIELDS

- Reduce static ignition risk
- Contain mists and sprays from seal failure
- Prevent contact fires
- Provide directed airflow for bearing cooling

## FLAMMABLE GAS DETECTION

- Identifies thermal fluid leaks
- Detects flammable atmospheres before ignition
- Triggers instant alarms and alerts
- Optional alerts to smart devices

## MECHANICAL SEAL LEAK DETECTION

- Monitors rate of leakage change
- Provides early warning of failure
- Triggers critical alarms on hot fluid release
- Prevents escalation to fire conditions

## PUMP DELUGE SYSTEM

- Environmentally friendly foam deployment
- Extinguishes fire and cools bearings
- Prevents re-ignition
- Automatically shuts down pumps
- Suitable for all pump types

## INTELLIGENT & CONNECTED PROTECTION

- Smart alerts and alarms
- Automated interlocks
- Rapid response to incidents



## PROTECT YOUR SYSTEM TODAY!

Speak to TFS today to assess your fluid and unlock performance improvements.

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