

REACTON

FIRE SUPPRESSION

WIND ENERGY
AUTOMATIC FIRE PROTECTION



PROTECTING **YOUR FUTURE**, TODAY.



WHY DOES **WIND ENERGY** NEED FIRE PROTECTION?

Worldwide carbon reduction is a key focus in today's climate and we are seeing a significant increase in wind energy investment and installations. As the reliance of these remote and expensive turbines continues to grow so does the requirement for fire protection. Reliable, robust and fully automatic fire suppression solutions are essential.

In each turbine nacelle, there are a host of systems that have to work in harsh and remote conditions without fail. From the electrical control cabinets to the yaw & pitch motors, fires are a real threat. Traditional fire protection solutions require large space requirements, are too heavy or rely on detection methods that aren't suited to this environment.

Reacton has a proven cost-effective system to eliminate fires from the source.

COMMON WIND TURBINE FIRES:

- ❖ Electrical system failures - extremely common with the **potential to rapidly spread**
- ❖ Friction from fatigued parts - **causes overheating** which leads to a fire breaking out
- ❖ Lightning strikes - unpredictable and **cannot be prevented**
- ❖ Hydraulic oil leaks - will **increase the severity of the fire** due to the presence of the oil
- ❖ Poor maintenance - can be prevented but a **fire will spread to surrounding components**

THE ADVANTAGES OF A **REACTON SYSTEM:**

- ❖ **Fully Automatic** Fire Suppression
 - ❖ **No External Power** Required
 - ❖ Extremely **Low Maintenance**
 - ❖ **24/7 Protection** without False Alarms
 - ❖ **10 Year** Service Life
 - ❖ **Retro and Factory Fit** Compatible
 - ❖ **Compact & Lightweight** for Easy Installation

APPROVED TO THE **HIGHEST GLOBAL STANDARDS**

This UL Listing certifies Reacton's detection tube as a Heat-automatic Fire Detectors - Component. Having a core product Certified by UL demonstrates that you focus on providing your customers with a secure, safe, and sustainable offering.



CLEAN AGENT FIRE PROTECTION:

NOZZLES

Clean agent nozzles, release the extinguishing agent

DISCHARGE HOSES

Extinguishing agent travels via discharge hose to nozzles

INDIRECT VALVE

Made in Britain, high-quality stainless steel material, born of years of research and development

CLEAN AGENT

Zero clean-up, highly reliable extinguishing properties, environmentally friendly

DETECTION TUBE

UL-Approved, bursts when a fire is detected, triggers activation of system

END OF LINE GAUGE

Shows system pressure

MANUAL ACTUATOR

Activate the system manually, optional safety extra, requires human intervention

Reacton's UL-approved detection tube will burst which activates the system. The clean agent is released through the discharge hoses through the nozzles to combat the fire rapidly and effectively, ensuring that reignition is prevented. Our wind turbine protection systems utilise a range of specialist extinguishing agents including 3M™ Novec™ 1230 and FM-200™.

3M™ Novec™ 1230 and FM-200™ provide rapid knockdown capabilities and are highly effective in enclosed spaces such as wind turbines. 3M™ Novec™ 1230 is an environmentally friendly clean agent which leaves no residue, providing zero clean-up with excellent fire extinguishing capabilities.

ADDITIONAL SAFETY FEATURES:

MANUAL ACTUATOR



Provides a secondary point of activation for the system using manual means.

SOUNDER BEACON



Provides an audible and visual indication that the system has been activated.

PRESSURE SWITCH



Provides ultimate reliability for all of your monitoring requirements and connection to a building management system.

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REACTON SYSTEMS PROTECT

- Buses and Coaches
- Heavy Plant and Machinery
- Manufacturing and Machining Equipment
- Electrical Panels
- Power Generation
- Residential Kitchens

