Remote Control Fire Fighting System

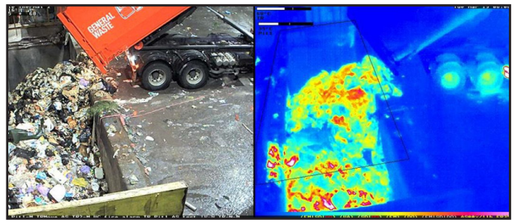
fire protection TECHNOLOGIES

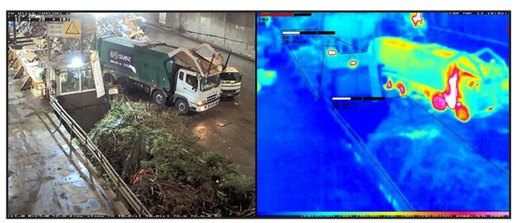
GASEOUS SUPPRESSION
WATER SUPPRESSION
FOAM SUPPRESSION
EXPLOSION PROTECTION
FIRE DETECTION
MILITARY & DEFENCE
SPECIAL APPLICATIONS
SUPPORT SERVICES

Remote Control
Fire Fighting System

“EVERY SOLUTION FOR YOUR SPECIAL HAZARD PROBLEMS”

“Thermal Imaging Detection systems can be coupled with leading edge water & foam monitors to effectively & efficiently detect & extinguish fires in waste & recycling facilities automatically”





THERMAL IMAGING DETECTION

Our thermal imaging fire detection systems are a reliable choice for surveillance and recognition of spontaneous fires on conveyors, at waste transfer stations and stockpiles. The probability of spontaneous combustion in these areas is high with disastrous effects for personnel and the environment.

Thermal imaging detection systems utilise high performance infrared cameras coupled with a powerful software package to analyse thermographic images to detect hot spots making it a very early warning fire detection system.

The infrared cameras can either be fixed or mounted on a pan-tilt arrangement which automatically monitors a defined area, continually measuring the surface temperatures. Hot-spot differentiation is possible to mitigate false alarms caused by operational heat sources such as hot exhausts from plant machinery, motor housings etc.

Features include remote viewing via event management software, image and video storage, hot-spot targeting, facility heat mapping and automatic operation of remote-controlled water or foam spray monitors.

If a hotspot is detected, the coordinate of the fire can be calculated with the pan and tilt information to either open valves to self-oscillating monitors or remotely operate monitors for more accurate fire-fighting capabilities.

HYDRAULICALLY DRIVEN WATER & FOAM OSCILLATING MONITORS

The use of Fire Monitors in industry applies to areas where there are large distances between accessible points, and the risk of fire or exposure to radiant heat/toxic smoke is severe. Fire monitors use water or foam solutions to project over long distances and provide coverage over a wide area.

It is with this in mind that the range of monitors provided by Fire Protection Technologies are specifically selected to consider optimal throw projection performance, using oval shaped waterway designs, reducing flow friction and turbulence in the water stream.

When combined with our interchangeable nozzle selection we can effectively deliver accuracy and projection performance with straight stream applications using water or foam solution, and wide angled, directional spray fog patterns across singular or adjustable flows.

The robust materials of construction and movement flexibility of our monitors are available across the whole product range tackling flows from 500 L/min through to 12000 l/min and higher. All monitor/ nozzle combinations are available as manual leaver, hand wheel operated units OR as remote controlled 24 VDC, 230 AC, 440 VAC assemblies when used in conjunction with our purpose-built control equipment options.

The remote-controlled options for the monitor assemblies arebuilt around tailored interface requirements that allow for functional control from fixed analog (joystick) panels to touch screen displays and radio-controlled portable belly packs.

Monitor operation can be integrated to operate on pre-programmed movement patterns, initiated from user interfaces or condition input signals for given scenarios, such as integration with thermal imaging detection systems forming a 24/7 automated response for detection and suppression of hot spot fire scenarios.

PRODUCTS:

Gaseous Suppression

- Inert Gas (IG-01, IG-55, IG-100, IG-541)
- Novec 1230™ Fluid (FK-5-1-12)
- FM-200® (HFC-227ea.)
- Carbon Dioxide (CO_2)
- Hybrid Systems (N_2 / Water)
- Pressure Relief Vents
- Enclosure Integrity Testing Equipment
- Pipe & Fittings

Water Suppression

- Water Mist - High Pressure
- Water Mist - Intermediate Pressure
- Water Mist - Low Pressure
- Hybrid Systems (Water / N_2)
- Monitors & Delivery Systems
- High Speed Deluge

Foam Suppression

- Foam Concentrates
- Foam Proportioning
- Foam Delivery Systems
- Foam Concentrate Testing

Explosion Protection

- Explosion Suppression
- Explosion Isolation
- Explosion Vents & Pressure Relief
- Spark Suppression
- Explosibility Testing

Fire Detection

- Linear Heat Detection - Digital
- Linear Heat Detection - Fibre Optic
- Linear Heat Detection - Micro Chip
- Flame Detection
- Video Imaging Detection
- Spark Detection
- Control & Indicating Equipment
- Thermal Imaging Detection
- Aspirating Smoke Detection

Military & Defence

- Military Vehicles
- Naval Vessels

Special Applications

- Micro Environment
- Oxygen Reduction
- Kitchen Protection Systems
- Dry Chemical
- Vehicle Systems
- Compressed Air Foam
- Marine & Offshore
- Vapour Mitigation
- Li-Ion Fire Systems

Support Services

- Design / Engineering
- Technical Support
- Services & Testing

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fire protection TECHNOLOGIES

‘Every solution for your special hazard problems’