Remote Control
Fire Fighting System
OUR COMMITMENT  “To provide our customers with the best possible service, the highest quality products and the right solution for your needs”

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 coal stacks & coal bunkers automatically”

HOT SPOT DETECTION

The DIAS thermal imaging fire detection system is a reliable system for surveillance and recognition of spontaneous hot spots and fires inside coal stacks, bunkers, open air waste dumps etc.

The high performance infrared cameras PYROVIEW 380L are combined with the powerful software PYROSOFT FDS for analysing the thermographic images, allowing for very early warning of hot spots and fires.

The infrared cameras PYROVIEW 380L can be mounted either fixed or on a pan-tilt head to automatically monitor a user defined area to be observed, continuously quantifying the surface temperature distribution of that specific region.

The PYROSOFT FDS software then checks the temperatures inside the Regions Of Interest where an alarm will be raised if the predefined temperature limits are exceeded. All alarms and system status are displayed on a computer at the remote viewing station and the control box will transmit the alarm and the precise location of the fire to automatically control the water monitors via either dry contact relays or high level interface.

The area to be monitored is subdivided into so-called Regions Of Interest which are approached cyclically by the pan-tilt-head.

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 cooling medium “water” or water foam solution can be applied over the selected area automatically when electrically activated by the fire control system. The oscillating water monitors are set to horizontally transverse over a preset area which will cool a detected fire at a distance of up to 70m requiring no manual intervention. Overriding the oscillation mechanism manually is possible to further direct a system discharge locally at each monitor assembly.

The equipment utilised is designed and tested to provide the finest water flow performance characteristics and for integrating with the latest technology. The water monitor offers maximum travel for optimal coverage in a compact, economical package. A fixed nozzle with built-in stream shaper is designed for flows of up to 4800 LPM and is ideal for heavy-duty use on fixed monitors. An oscillation range up to 165° and is achievable with unique maintenance-free polymer bearing design, high quality material construction and superior performance.

The equipment can be provided in a modular mechanical assembly complete with automatic means of operation and isolation facility. It is the ideal choice for a long-term low maintenance option located in a harsh environment.

Key Performance Characteristics:
- 360° of horizontal movement
- Elevation 90° above to 45° below horizontal
- Oscillation range: 30°, 60°, 90°, 115°, 140° and 165°
- Adjustable oscillation speed: 0-40 deg. / second
PRODUCTS:

**Gaseous Suppression**
- ProInert™ (IG-01, IG-55, IG-100, IG-541)
- Novec 1230™ Fluid (FK-5-1-12)
- FM-200® (HFC-227ea.)
- Carbon Dioxide (CO₂)
- Hybrid Systems (N₂ / Water)
- Pressure Relief Vents
- Enclosure Integrity Testing Equipment
- Pipe & Fittings

**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

**Water Suppression**
- Water Mist - High Pressure
- Water Mist - Intermediate Pressure
- Water Mist - Low Pressure
- Hybrid Systems (Water / N₂)
- Monitors & Delivery Systems
- High Speed Deluge

**Military & Defence**
- Military Vehicles
- Naval Vessels

**Special Applications**
- Micro Environment
- Kitchen Protection Systems
- Dry Chemical
- Marine Systems
- Oxygen Reduction
- Vapour Mitigation

**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

**Support Services**

**Design / Engineering:**
- Design Services
- Project Documentation
- Project Management
- Cost Analysis
- System Hydraulics

**Technical Support:**
- Design Verification
- Commissioning
- Hazard / Risk Analysis
- Product After Sales Service
- Field Support

**Services & Testing:**
- Hydrostatic Pressure Testing
- System Recharging / Reinstatement
- Enclosure Integrity Testing
- Integrity Testing Equipment Calibration
- Foam Concentrate Testing
- Explosibility Testing
- Maintenance Services
- Training
- De-Commissioning
- Pipe & Fittings

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