



Banking & Financial Centres



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Protect your business with Redetec...
putting fire protection where it counts.



19" rack-mount fire protection solutions

Intelligent fire protection and systems integration

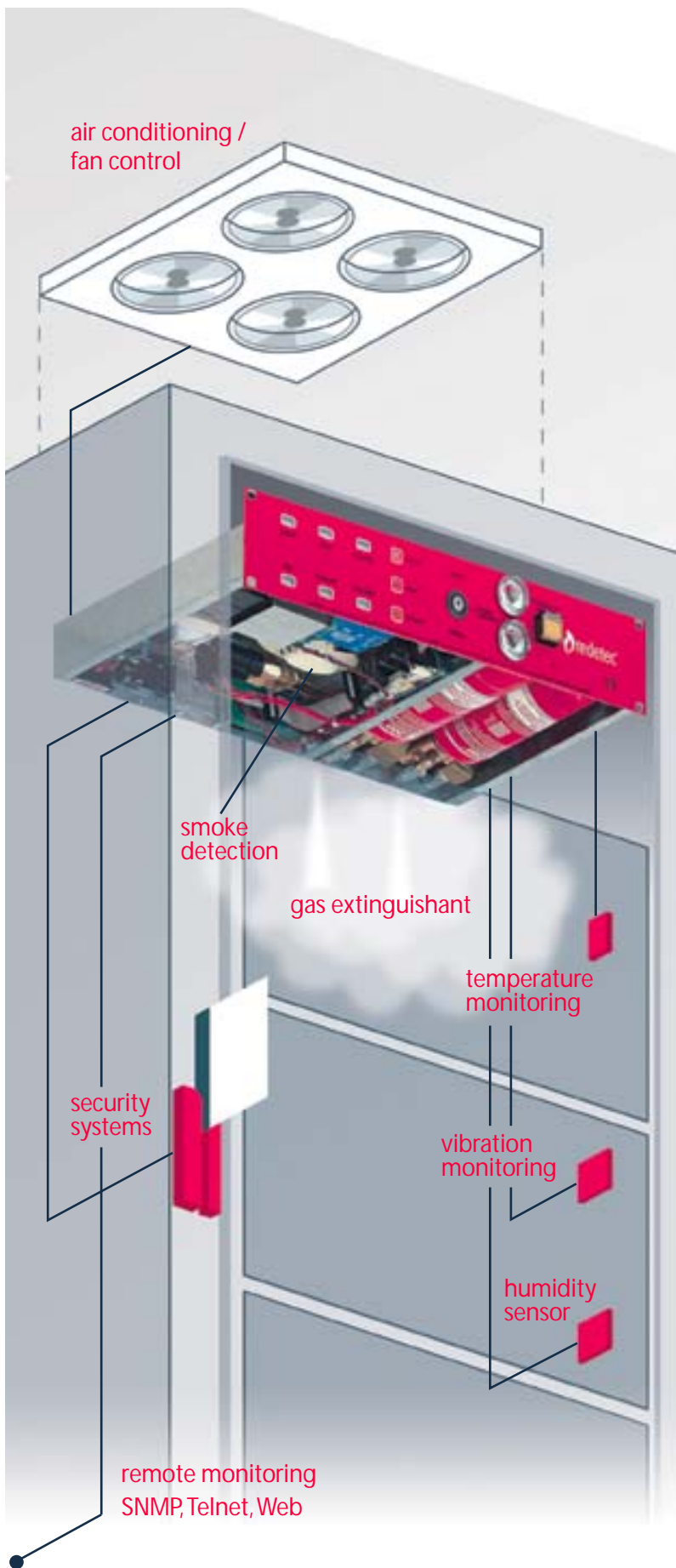
Redetec is a unique fire control solution providing fire protection in operation critical IT server racks and cabinets. Redetec includes all fire detection, control and extinguishing needed within one 19" rack-mounting chassis. For relatively little cost, Redetec provides fire protection against the potentially devastating loss of capital equipment and company essential data.

Redetec is widely used in critical systems where IT server or Data centres require more responsive fire detection and protection than found in traditional room based total flood solutions. By putting fire protection into the equipment rack enclosure, Redetec is able to better protect essential equipment and data from the effects of a fire incident within the rack. If during normal operations smoke is detected, Redetec's on board control systems are able to shut down rack ventilation fans before releasing fire extinguishing gas into the enclosed space and eliminating the risk.

Redetec uses point-type or high sensitivity air sampling detectors to identify smoke particles. Fire extinguishant gases such as FM200 and Pyrogen (other gases are also available) are used; selected to meet the demands of each application.

Redetec Plus is a further option to the standard Redetec. In addition to the fire detection and control described above, Redetec Plus also provides rack condition monitoring and security management. Monitored inputs include temperature, humidity, vibration, water detection. Each input has user-settable upper/lower threshold levels and user settable alarm levels. Redetec has network access via SNMP, WEB and Telnet using 10BaseT Ethernet.

Tailored Fire Products provides a free consultancy service for customers wishing to discuss rack enclosure, cabinet or manufacturing applications. For further details or to talk about your requirements, please feel free to contact us at the address given.



features

Fully self-contained fire detection & suppression system
Additional environmental control capabilities
Compact 2U x 19" chassis mounting
Front panel key switch control/isolation
Local/remote audio/visual condition monitoring & control
Monitored alarm/fault circuits
Visual alarm & fault status indications
Point-type or air sampling smoke detection
Single or coincident alarm
Choice of gaseous extinguishant types
Selectable gas release delay
24-hour battery back-up
Fan/power shutdown control
IT/BMS data output
EMC tested/CE mark tested

benefits

Complete rack/cabinet fire solution
Close protection for high value assets & critical operations
Faster response to in-cabinet fire incidents
24/7 running, no daytime lock-off
Requires little to no fire engineering design, installation cost or floor space
Reduced extinguishing gas requirement/maintenance costs
Contributes to responsible environmental emissions policy
And by distributing protection within cabinets, improves cost effectiveness of fire safety policy
Redetec is transportable, it moves with the cabinet
Redetec can be extended and networked
Communication links to IT networks/BMS
SNMP/Web enabled for greater integration/management control
Improved control & security integration with main building systems

advantages

Puts fire control where the risk is; inside the cabinet
In the event of a fire incident, Redetec releases only into the cabinet in alarm, minimising gas required, concentrates response and cuts downtime
Cost effective close risk fire protection which is easy to install, simple to control
Facilitates capital assets & data protection and business continuity
Essential coverage for mission-critical equipment and operations with total reliability and cabinet protection
Designed to comply with recognised international fire control design standards for fire protection in computer control rooms
Can avoid cost of engineered room fire protection systems
Only small amounts of fire extinguishant gas used in directed local application
Transportable. Redetec protected racks & cabinets can be moved to different locations without loss of cover
Ideal solution for manned control rooms and unmanned site applications
Totally automatic operation, with remote/manual control options
Worldwide delivery and support structure

Redetec examples (using FM-200*)



Redetec 1.5m³

- 1.5 cubic metre FM200 flood capability
- Designed to fit in cabinet depths of 600 mm min.
- Point type optical & ionisation smoke detection
- Pressure gauge indication of bottle fill condition
- Low gas pressure output warning
- External connections for fire control coverage of additional areas



Redetec 3.0m³

- Double volume flood capability 3.0 cubic metres
- As above, fits in cabinet depths of 600mm minimum
- Vesda high sensitivity smoke detection option for high airflow applications
- Volt-free contact outputs for 1st and 2nd stage alarms
- Volt-free contacts for system fault conditions
- Selectable coincidence or single activation mode



Redetec HSSD

- Uses proven Vesda high sensitivity detection
- Totally proven solution for high airflow applications (IT/Server cabinets)
- Operates in single or coincident mode
- With both Vesda and point-type smoke detectors if required
- As with all options, fan/cabinet control power & shutdown can be controlled by Redetec
- Full integration of Vesda into Redetec including set-up & commissioning via RS232 connection
- Redetec output display including Vesda dynamic range reading

integration and control

Redetec PLUS

- Environmental monitoring
- Cabinet environmental monitoring inputs including;
• Vibration, temperature, humidity, airflow, security access, etc.
- LAN Protocols: SNMP, Telnet, Web
- LAN interface 10baseT
- MIB support
- Power monitoring on PDU
- Non-specific analogue & digital input capability
- Real time condition/status & alarm viewing

* A range of extinguishant types is available (active & inert gasses) as well as Redetec detection and control only.



Redetec 3.0m³

technical specification

Dimensions

19" (485mm) width x 2U (88mm) height x 300mm deep
(standard depth 300mm with options for extension for deeper cabinets 400mm/600mm)

Smoke detection

Optical & Ionisation point-type smoke detection, fitted as standard
Vesda HSSD smoke detection option

Extinguishant Type

Pyrogen / FM-200, plus other active & inerting gas options

Input Voltage

110/230V AC via single fused IES socket

Output Voltage

As input voltage via 1 x 10A IEC female socket

Output Switching

1st stage alarm contacts
2nd stage alarm contacts
Fault contacts
24v dc output fused @ 500mA
RS232 output
Extinguishant delay time 0, 4, 32, 64, 128 seconds

Remote Output

Extinguishant release output

Remote Inputs

Extinguishant Release / Release Hold

Battery Back up

2 x 1.2AH SLA Batteries

Operating Temperature

0°C - 50°C

Humidity

Max 95% (non-condensing)

Power Supply Rating

750mA max @ 28v dc (350mA cont) standard Redetec



Following a serious fire incident:

28% OF BUSINESSES
RECOVER

29% CLOSE WITHIN
3 YEARS

43% NEVER RE-OPEN*

*Fire Suppression Systems Association



For more information, a demonstration CD or a sales visit, please contact Tailored Fire Products
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