# Features and technical specification

Part Number: VN/RED/1.5

## Features:

- Fully self-contained automatic fire detection and extinguishing system.
- 'Out of the box fire protection solution' requiring no fire engineering design; quick and easy to install and simple to operate.
- Designed around EN54-2 C&IE design standards.
- LPCB approved Airsense HSSD detection for quick response.
- FK-5-1-12 Extinguishing agent to cover 1.5 cubic meters.
- Approved and tested bottle & valve sets, specially designed performance tested discharge nozzles, proven fire tested performance.
- Volt free contacts for connection into 3rd party equipment.
- 19" rack mounted chassis.
- 2U (88mm) height.
- 479mm Depth

## Technical Specification: Panel

| | |
|---|---|
| Input Voltage | 110/230VAC 50/60Hz via single fused IEC C13 socket |
| Output Voltage | 110/230VAC 8A single IEC C14 socket (Fan tray shutdown) |
| Output Switching | 1st stage fire alarm contacts form 'C' volt free contacts<br>2nd stage alarm contacts form 'C' volt free contacts<br>Common Fault form 'C' volt free contacts<br>All output contact ratings - 8A @ 24V dc<br>24v dc output fused @ 500mA<br>Fan/Air-conditioning power shutdown output (IEC).<br>All wired outputs use Wiedmuller plug-in terminals. |
| Output data port | Extinguishant delay time 0,4,32,64,128 seconds |
| Remote Output | Extinguishant output |
| Remote Inputs | Extinguishant Release<br>Hold off Release |
| Backup power | 2 x 1.2 AH SLAB – Up to 8hrs for HSSD Redetec unit |
| Operating Temperature | 0 to +50ºC |
| Operating Humidity | 0 to 95% (non-condensing) |
| Power supply approvals | BS EN54-4 1998, EN55022 class B emissions limits & EN60950: 2000 safety standards |
| Power Supply Rating | 1.5A PSU: 1.0A continuous load, 0.5A battery charge |
| Dimensions | 19" (485mm) width, 2U (88mm) height, 479mm deep including nozzle suitable for 600mm cabinets, additional extension tubes supplied as standard for 800mm -1000mm+ cabinets. |
| Extinguishing type | 1.2kg FK-5-1-12 (1, 1, 1, 2, 2, 4, 5, 5, 5 –Nonafluoro-4-(Trifluoromethyl-3-Pentatone)) |
| Fire detector type | 1pcs Kidde Airsense Micra10 for High Sensitivity Smoke Detection (HSSD) |
| Shipping dimensions | 190mm x 570mm x 590mm |
| Shipping weight | 14.5kg |

## Technical Specification cont.: Detection

| | |
|---|---|
| Supply Voltage | 21.6V - 26.4V DC |
| Current consumption | 250mA @ 24V DC |
| Size | 145W x 220H x 85D |
| Weight | 1.7kg |
| Operating temperature range | -10 to +38°C (UL268) -10 to + 60°C (CEA4022) |
| Operating humidity range | 0 – 90% non-condensing |
| Sensitivity range | 0.03% to 25% obs/m |
| Detection principle | Laser light scattering mass detection and particle evaluation |
| Particle sensitivity range | 0.003µm to 10µm |
| Dust discrimination principle | 3D3 Laser Dust Discrimination (LDD) |
| Alarm levels | 4 (Aux, Pre-alarm, Fire 1 and Fire 2) |
| Integral relays | Fire, Fault Relay Input PCB |
| Laser chamber service intervals | Greater than 10 years (dependent on environment) |
| Programming | Command Module or PC via RS232/RS485 |
| Sampling pipe inlets | 1 |
| Exhaust air pipe outlets | 1 |

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

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