

## Features and technical specification

Part Number: VN/RED/3.0

### 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.
- Novec1230 Extinguishing agent to cover 3.0 cubic meters.
- Approved and tested bottle & valve sets, specially designed performance tested discharge nozzles, proven fire tested performance.
- Volt free contacts for connection into 3<sup>rd</sup> 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
Output Switching	1 <sup>st</sup> stage fire alarm contacts form ‘C’ volt free contacts 2 <sup>nd</sup> stage alarm contacts form ‘C’ volt free contacts Common Fault form ‘C’ volt free contacts All output contact ratings - 8A @ 24V dc 24v dc output fused @ 500mA Fan/Air-conditioning power shutdown output (IEC). 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 Hold off Release
Backup power	2 x 1.2 AH SLAB - 12hrs for standard Redetec unit
Operating Temperature	0 to +50°C
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	2.4kgs (Novec 1230 1, 1, 1, 2, 2, 4, 5, 5, 5 –Nonafluoro-4-(Trifluoromethyl-3-Pentatone))
Fire detector types	1pcs Airsense Micra25 for High Sensitivity Smoke Detection (HSSD)
Shipping dimensions	190mm x 570mm x 590mm
Shipping weight	13kg



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putting fire protection where it counts.

19” rack-mount fire protection solutions

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## 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

## Technical Specification: Extinguishant

Trade name	Novec1230
Chemical Name	1,1,1,2,2,4,5,5,5-Nonafloouro-4-(triflouromethyl)-3-pentanone
Environmental	Zero Ozone Depleting Potential 0.014 Atmospheric Lifetime (yrs).
Classifications Suitable for fire	Class A – Combustible Solids Class B – Flammable Liquids Class C – Flammable Gases Class E – Electrically Energised Fire Class F – Fats and Cooking Oils
Mechanism suppression	Physical
Firing Mechanism	Metron Electric Actuator
Nominal Pressire	16.5 Bar
Low Pressure Switch	12 Bar falling

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