

# Fire Detection Systems



## Conventional Fire Alarm Systems



## Product Description

### Fire Alarm Systems 2 to 64 Zone Control Panels

#### Including Devices & Accessories :



- Ionisation Smoke Detector
- Optical Smoke Detector
- Heat Detector
- Multisensor
- Manual Call Point
- Electronic Sounder
- Electronic Sounder & Beacon
- Fire Alarm Bell-60
- Remote Indicator
- Beam Detectors



## Intelligent Fire Alarm Systems

- Ionisation Smoke Detector
- Optical Smoke Detector
- Heat Detector
- Multisensor Detector
- Manual Call Point
- Isolators
- Input / Output Unit with Isolator
- 3 Channel Input / Output Unit with Isolator
- Output Unit with Isolator
- Sounder Control Unit with Isolator
- Switch Monitor Isolator
- Switch Monitor Plus with Isolator
- Beacon
- Sounder Loop Powered
- IR<sup>3</sup>



# Fire Detection Systems



## 1 or 8 Loop Fire Control Panels



### Product Overview

- The VF 1460 and VF 1480 analogue addressable FACP supports 1 or 8 SLC loops for a total of 500 primary points or 800 points using sub points
- SLC loop communications use standard twisted pair cabling, shielded cable is not necessary
- The panel may be configured with various communication cards. Communications options support central station monitoring, virtual panel and networking
- The panel can be configured as a stand alone panel with just a few devices for a small building, it can also operate as a building system and can be part of a network with a total of 64 nodes serving a multiple or a very large facility
- Auto Learn capability provides a convenient method to trouble shoot new installations before final programming is loaded

### Standard Features

- UL 864 9th Edition listed
- Multi Loop 2 Analog Addressable Loops Field upgradable to 8
- 126 Primary points per Loop
- Powerful, network wide cause and effects (500 total) Fully user programmable by point or zone
- 800 Points per panel when using devices with sub points
- Up to 10,000 Ft. wiring length on SLC loop
- 64 Panels on a network
- Programmable through PC connection to the panel, or through keypad
- Programmable relays – 5
- Supervised Powered Outputs – 3
- Programmable Notification Appliance Circuits – 4
- Power per NAC 1.6 Amps Max
- Programmable outputs on SLC loop
- Programmable Function Button on front display
- Fire Drill Button on front display
- Day and night sensitivity settings
- (user programmable)
- Power Supply 5.25 Amp. regulated and integrated
- LCD Supply 8 x 40
- Zonal Mode: Annunciation by Zone w/o individual relationships
- Panel Ring Modes: Common, Zonal, Stage-2
- NAC Outputs programmable as Continuous, March, Temporal
- Program Cause and Effects AND, OR, or Any Two (Cross Zone)
- Battery Size up to 17 Ah in standard enclosure up to 52 Ah with external cabinet

### Also Available

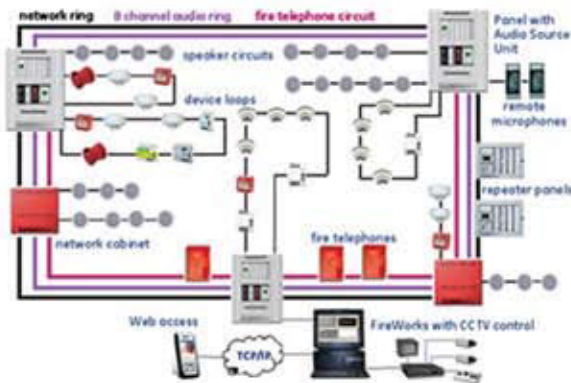
- Networking Option
- Repeater Panel
- Graphic Intelligence
- Modules Connectivity



# Fire Detection Systems



## Voice Evacuation Systems



- We have customized Voice Evacuation System to be integrated with your existing Fire Alarm System or New Fire Alarm System
- Our System Provide real time LCD Display with hand free option. Zonal amplifier and Zonal Output.
- Fire Fighter Telephone Jack system also available.
- It is a robust system fully integrated to fire alarm system to avoid any error into reporting .
- Designed to NFPA Standards. This system is very reliable and user friendly.
- Large wiring Network help system for large application easily usable.

## Aspirating Smoke Detection Systems

Aspirating Smoke Detection (also known as Air Sampling) is a method of smoke detection, whereby a sample of air is continuously drawn from the protected area through a network of sampling pipes, and passed through a revolutionary designed laser detection chamber.

The Output of this detection chamber is processed by a powerful system of "Artificial Intelligence" which provides the maximum sensitivity with minimum risk of false alarms.



## Battery Operated Smoke Detector

The Stand alone Smoke Detector is a 9V battery operated Photoelectric Smoke Detector.

These units have an 85 decibel sound, test switch, low battery and a lighted power / alarm LED indicator.

The LED flashes once in 47 seconds indicating detector is in normal condition. When it senses smoke, then it simultaneously sounds an audible alarm and flashes once in 0.67 seconds.



## Mini UV/IR Flame Detector

The low cost, compact, lightweight UV/IR Flame Detector comprises both UV and IR sensors, detecting hydrocarbon-based fuel and gas fires, hydroxyl and hydrogen fires, as well as metal and inorganic fires at distances up to 50 ft (15 m). The UV sensor incorporates a special logic circuit that helps prevent false alarms caused by solar radiation. Simultaneous detection of radiant energy in both the UV and IR sensors triggers an alarm signal.





## Linear Heat Sensing Cable

Up to 10,000 ft. (3,048m) of LHS Cable per zone approved for up to 35' (10.7m) spacing.

05 ohms/ft (.164 ohms/m) resistance for twisted pair wire lower than any other type of linear heatdetection wire.

Lower cost than types of linear heat detection wire

Compatible with ALL Fire Alarm Control / Releasing Panel

Use with addressable modules

Multiple alarm temperatures : (F°) 155°, 172°, 190°, 220°  
(C°) 68°, 78°, 88°, 105°



## NV - FSC - 950 Cables

### Insulated, Halogen Free Fire Resistant

#### Applications :

These special multicore cables are used for fire resistant and circuit integrity, and essentially to prevent life from smoke and noxious fumes, and where sensitive equipment may be damaged by acid forming gases.

#### Technical Data :

Maximum Conductor D.C Resistance :	Conductor Size	Ohm/km at +20°C
	1/1.13 mm (1.00 sqmm)	18.10
	1/1.40 mm (1.50sqmm)	12.10
	1/1.80 mm (2.50 sqmm)	7.41
	7/0.85 mm (4.00 sqmm)	4.61
Minimum Insulation Resistance	: Individual Conductors - > 200 MOhm x km at +20°C.	
Minimum Bending Radius	: 8 x Overall Diameter.	
Fire Rating	: to BS6387 Cat. C 3 hours at 950 °C.	
Operating Temperature	: + 180 ° C.	
Installation Temperature	: - 5 ° C.	
Voltage Rating	: 300 / 500 V.	
Operating Temperature	: + 75 ° C.	
Test Voltage	: 2000 V ac.	

#### Construction :

##### - Conductors :

Solid (Class 1), Copper Conductor to BS EN 60228.

##### - Insulation :

Special Silicon Rubber mix insulation.

100mm maximum pair length

(min. 10 twists per metre)

##### - Blinder Tape :

Polyster tape 50% overlap.

##### - Collective Screen :

Polyster tape 50% overlap.

Aluminium / Polyester tape, metallic side down, in contact with Soiled Copper drain wire.

##### - Outer Sheath :

- Colour : Red or White.

LSZH Sheat type LTS3.

Max HCL emission @ 800 o C : - 0.5%.