FireNET Vapor™ - VPR-4 & VPR-6

STANDARD FEATURES

- 4 or 6 pipe addressable air sampling
- 0.0003 - 6.10 %/ft obscuration (0.001 - 20 %/m)
- 4 Alarm Levels - Alert, Action, Fire 1, Fire 2
- 4 x 328ft (4 x 100m) or 6 x 326ft (6 x 100m) sampling pipes
- Enhanced performance aspirator
- Ethernet TCP/IP
- Modbus over RS232 and RS485
- 5 relay outputs and expandable
- Optional 4 to 20mA analog outputs and relay cards
- Area coverage of up to 21,500 ft2 (2000 m2)

APPLICATIONS

The FireNET Vapor™ VPR-4 & VPR-6 detectors are configurable for a variety of environments, providing an ideal fire detection solution for power stations, telecommunications and IT facilities, clean rooms, warehouses, cold storage, harsh and hazardous areas, historic buildings and museums.

PRODUCT LISTINGS

SIGNALING
UL LISTED
S3516

California State Fire Marshal
7259:0410:0202

DESCRIPTION

The FireNET Vapor™ VPR-4 & VPR-6 detectors are multi-channel air-sampling system with an alarm sensitivity range from 0.0003 - 6.10 %/ft obscuration (0.001 - 20 %/m). These detectors are classified as Very Early Warning Smoke Detectors and can reliably detect fire at an early stage and low to high concentrations of smoke over an area of 21,500 ft2 (2000 m2). As a multi-channel system, the VPR detector is able to divide a protected space into sampling sectors, enabling the localization of a fire for faster incident response.

OPERATIONS

Programming and Configuration:

The four alarm sensitivity thresholds and delays can be individually programmed. The VPR detector provides a simple and comprehensive display that includes an LED array to show the measured smoke level and an on-board programmer for local configuration.

RS232, RS485 and TCP/IP communication interfaces are available to connect to the Hochiki Configuration software package: FireNET Vapor™ Explorer. RS485 interfaces also allow connections to programming devices and remote displays and the TCP/IP Ethernet interface can provide access to an email messaging service.

Inputs and Outputs:

The VPR detector supports a number of optional modules, which provide the detector with additional programmable output relay interfaces and 4 to 20 mA analog outputs.

Aspirating and Flow Sensing:

The aspirator is a 2000 Pa high pressure and high volume fan, which provides superior detection times over long pipe lengths and reliable detection in high air flow environments. Airflow in each pipe is monitored by a dual element thermal sensing system, with airflow faults indicated on the display and reported to monitoring equipment.

ORDERING INFORMAION

VPR-4 & VPR-6 - Aspirating Smoke Detector
(0200-06060 & 0200-06070)
VPR-RM4 - 4 Channel Relay Module
(0400-03200)
VPR-CLO8 - 8 Channel Analog Output Module
(0400-03210)
VPR-4-RD & VPR-6-RD - Remote Display Module
(0500-06640 & 0500-06650)

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SPECIFICATIONS

Supply Voltage	24 VDC
Supply Current	500mA (min) – 1.2A (max)
Aspirator	2000 Pa Centrifugal air pump
Dimensions	19.3”W (490mm) x 14.0”H (355mm) x 7.9”D (200mm)
Operating Temperature	32 - 100°F (0 - 38°C)
Maximum Humidity	10 – 95% RH (non-condensing)
Sampling Network	Sectors: 4 Fire sectors (VPR-4) 6 Fire sectors (VPR-6) Pipe Length: 4 x 328ft (4 x 100m) for VPR-4 6 x 328ft (6 x 100m) for VPR-6
Alarm Sensitivity Range	0.0003 – 6.10 %/ft (0.001 – 20 %/m)
Alarm Settings	Alarm levels: Alert, Action, Fire 1 and Fire 2 Alarm delays: 0 – 60 seconds
IP Rating	IP30
Filtration	Field exchangeable dual stage filter
Flow Monitoring	Twin thermal element per input pipe
Relay Outputs	4 alarm relays, 1 fault relay, 1 Amp changeover Rating 1A @ 30VDC, NO/NC
Communication	RS232, RS485 Modbus and Ethernet TCP/IP
Event Log	Up to 20,000 events stored

DIMENSIONS