

IP Fire Series™ Intelligent Fire Controls

- VPM
- SDM

Description

The architecture of an IP Fire Series™ control network is comprised of a series of IP based distributable modules. These modules include alternate configurations of SLC and NAC circuit modules (ALM-xy), standard display modules (SDM), annunciator control modules (ACM) and other specialized modules noted in other documents.

The first module on every IP Fire™ network is a display module that is designated as the Virtual Panel Module (VPM). Network configuration and management are initially performed through the VPM. Its terminal interface display acts as a gateway to the other modules installed in the network and can interact with any device configured on those modules.

A single VPM can interact with up to 50 distributed modules of any type in any configuration. As modules are attached to the network, they obtain their IP address assignments from the VPM managing the modules on the fire control network. All modules are connected via an RTR-1, RTR-2, RTR-3 or equivalent hub, or directly (by use of a cross-over cable) to the VPM.

Once connected, SDM's provide identical features/functions as the VPM. SDM's may be installed in any number up to the system maximum of 50 modules.

VPM/SDM modules feature a ¼ VGA graphical user interface, programmable soft keys, system event annunciation, acknowledge, signal silence, and reset switches along with separate switches for sorting history logs. Drill and lamp test are also accessible from any VPM/SDM.

VPM/SDM modules feature two integral USB 2.0, Type A ports for easy system access. The USB ports can be utilized to program/back-up/restore any or all IPF Series modules located anywhere on the network to/from any standard USB Mass Storage Device.

A 3000 event history log is available on every IP Fire™ system module. Any VPM/SDM is capable of retrieving and viewing the history log of any attached module. The history logs are presented in a retrievable list and can be easily viewed on the display of any VPM/SDM or downloaded to a USB Mass Storage Device.

The VPM and SDM have an optional USB extension module (UXB) that provides access to the two built in USB ports at the front of the system cabinet. Port access is limited on IPF-XL systems by a locked Lexan™ door and on IPF systems by a key-activated enable/disable switch located on the exterior of the cabinet.

Any module on an IP Fire Series control system can be viewed, interrogated, configured, backed-up/restored or programmed from the VPM or any SDM on the system regardless of location.




Features

- VPM provides the initial gateway to other installed modules
- VPM provides module IP address assignments
- VPM Interacts with up to 50 networked modules per system
- VPM and SDM provide for panel level configuration
- VPM and SDM each provide two built-in USB 2.0 Type A access ports for upload/download of system programming to/from any standard USB Mass Storage Device
- SDM can be installed in any number up to system max of 50
- ¼ VGA viewing screen
- Programmable soft keys
- View history log of any attached module
- Access limited by locked Lexan™ door on IPF-XL or key enabled dead front construction on all other cabinets
- 3000 event history log per module
- Modular listing
- Green/RoHS Compliant

Listings

UL File: S24573
CSFM: Pending
MEA: Pending

Product	Data Sheet Number	Rev/Revision Date	
IPF Series™ VPM/SDM	1010	1.3/ 5/1/2009	

Engineer Specification

The contractor shall furnish and install, where indicated on the plans, a VPM module for access to a distributed fire protection network. The VPM must be capable of assigning IP addresses on an IP based fire network and supervising up to 50 distributed modules consisting of analog loop/NAC circuit modules (ALM), standard display modules (SDM) and annunciator control modules (ACM) in any configuration/mix. The VPM and SDM shall provide 2 integral USB 2.0 Type A access ports for program upload/download to/from any standard USB Mass Storage Device. The VPM and SDM shall have a ¼ VGA graphical viewing screen with programmable soft keys and shall utilize the IPF Series built in QWERTY keypad or be capable of working with any standard IBM compatible USB wired or wireless keyboard. VPM and SDM modules shall be capable of retrieving and viewing any history log of any connected module. VPM and SDM modules shall be protected by a key-activated enable/disable access switch or otherwise located behind a locked Lexan™ door. The VPM and SDM shall have multiple levels of password protection. Each VPM/SDM shall maintain an integral 3000 event history log. The VPM, SDM and combination of networked modules must be UL listed and UL listed as compatible with the AsBuilt IP Fire Series network fire controls. The VPM and SDM modules shall be As Built Engineered Systems part numbers VPM and SDM.

Technical Data

Quiescent Power Draw: 165 mA
Alarm Power Draw: 185 mA

Connection Pins

Masterbox Connection/Line Reversal: (MBLR)
Common Control Relays (CCR)
QWERTY Keypad (KPD)

Access Ports

USB 2.0 Type A: 2
RS-232 Serial Interface: 1
Event Port: 1

Maximum Modules


VPM: 1
SDM: Up to system maximum of 50

Ordering Information

Part Number	Data Sheet	Description
VPM	1010	VPM Module for System Management
SDM	1010	Standard Display Module
SDM-NY	1010	Standard Display Module NYC Enclosure

Related Modules, Accessory Cards and Cabinets

ALM	1020	Analog SLC and NAC circuits
MBLR	1051	Optional Masterbox/Line Reversal card
CCR	1051	Optional Common Control Relay Card
KPD	1053	Optional QWERTY Keypad
UXB	1052	Optional USB Extension Card
UXB-KS	1052	Optional USB Extension Card/Key Activated
RTR, EPROT	1030	Optional Routers and Ethernet Protection Cards
RTR-3	1030	Fiber-Optic Long Haul Routers
Cabinets	1045	IPF-xy, IPF-XL and REM- Cabinet Options
IPF/IPF-XL	1050	IPF-xy, IPF-XL Pre-Configured Systems
iView	1055	Graphical Display Software

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