FireFinder® XLS
Advanced Fire Alarm Control Panel

ARCHITECT AND ENGINEER SPECIFICATIONS

- Standard / 2500-point-capacity addressable fire-alarm control panel (FACP)
- Ability to network with other FireFinder XLS systems
- Powerful, easy-to-use programming capabilities
- Fully field programmable, via Windows® laptop PC
- 6" (15.2 cm), backlit LCD display
- User-friendly system interface
- Touch screen for maintenance operations and function keys
- Global annunciation and control capability
- Multi-language display
- Universal AC power input: 120VAC – 240VAC @ 50 / 60Hz
- 12 amps of system power (expandable to 48 amps)
- Numerous Relays: *Alarm*, *Trouble*, *Programmable*, etc.
- *SureWire*™ addressable-loop technology
- Polarity-insensitive detection circuits (patented)
- Useful diagnostic LEDs on all cards
- Supports *FirePrint*™ application-specific detection
- Intelligent / analog detection circuits: 'Class A' or 'Class B'
- Supports single-person ' Walk Test '
- Seismic certified

- Modular assembly
- Supervised remote printer
- 32-character custom messages
  - 40 programmable macro, function buttons
- Interface for use with remote printers
- Security-device monitoring
  - (®UL 1076 Listed)
- Sprinkler Supervision
- Degrade-mode operation
- User help screens
- Coded outputs
- Distributed processing
- UUKL Listed for smoke control
- ®UL 864 9th Edition Listed & ®ULC Listed; FM, CSFM & NYC Fire Dept. Approved

- Supported by all Fire Safety Management Stations
- Multiple command stations
- Menu-driven operator commands
- 5000-event, history-logging capability with on-line and off-line reports
- Multiple levels of password protection
- Automatic environmental compensation for smoke detectors
- *Alarm* verification
  - by device or zone
- Pre-alarm operation
- Logic-controlled output functions
- Time-based-controlled output functions
- Holiday schedule
- City tie / leased line
- 200 notification-appliance-circuits (NACs) capacity
- Up to 3.0 amps (24VDC) per NAC
- Built-in strobe synchronization protocol
- Supports pre-action, deluge and agent releasing
- Voice evacuation system (optional)
- NEC 760 power-limited circuits
  - (®UL 864 Compliant)
- Intelligent interface to building / process management systems
- Operates as interactive peer with other XLS or XLSV units in a XNET network
- Detector Sensitivity Readout / Printout
  - per NFPA 72

System Overview

FireFinder XLS is a microprocessor-based, advanced fire-safety system that has a 6" display and large, lighted buttons; making it a highly intuitive fire-alarm user interface. Additionally, each FireFinder XLS panel has a unique multiprocessor 'Network' design – as well as providing connectivity to detection devices.

FireFinder XLS is ideally suited for commercial, institutional and industrial fire detection and notification applications. This FACP complies with the requirements of NFPA Standard 72, and is listed by Underwriters Laboratories under their ®UL 864 standard.

Underwriters Laboratories of Canada also lists FireFinder XLS FACPs under ®ULC-S527.

FireFinder XLS is Factory Mutual (FM #3010) Approved; as well as California State Fire Marshals (CSFM #7165-0067:0222) and NYC Fire Department (#6160) Approved. Additionally, FireFinder XLS is ®UL Listed under the category UUKL for smoke control.

FireFinder XLS is also ®UL Listed and FM Approved for Sinorix® clean-agent systems and pre-action or deluge sprinkler systems, which include foam or water applications. FireFinder XLS operates on the releasing requirements specified in NFPA 13 and 2001.

FireFinder XLS is listed as a Fireman's Smoke Control Station in high-rise office buildings, malls and other large structures.

FireFinder® XLS System Overview 6300

System Overview — (continued)

The FireFinder XLS system has been seismic qualified in accordance with:

- International Building Code, 2006 Edition
- California Building Code, 2007 Edition
- ASCE Standard 7, 2005 Edition
- OSHPD, OSP-0057-10
- OSHPD CAN 2-1708A.5, Rev. 3
- ICC-ES AC 156, effective 1/1/2007

System Components

A basic FireFinder XLS FACP consists of the following sub-assemblies: Person Machine Interface (PMI); Power Supply (Model PSC-12); Device Loop Card (Model DLC); Zone Indicating Card (Model ZIC-4A); Card Cage (Model CC-5); Inner Door Blank Single Plate (Model ID-SP); CAB-1, CAB-2 or CAB-3 enclosures.

Optional modules that can be installed with this FACP include: Card Cage (Model CC-2); Network Interface Card (Model NIC-C); 8-Circuit Zone Indicating Card (Models ZIC-8B / ZIC-2C); Control Relay Card (Model CRC-6); Output Control Module (Model OCM-16); Switch Control Module (Model SCM-8); LED Control Module (Model LCM-8); Fan Control Module (Model FCM-6); Supervised Input Module (Model SIM-16); Power Supply Extender (Model PSX-12); Remote Network Interface (Model RNI); Remote Printer Module (Model RPM); System Status Display (Model SSD); Multi-Point Digital Alarm Communicator (Model MDACT); Two-Module Remote Enclosure (Model REMBOX2); Four-Module Remote Enclosure (Model REMBOX4).

FireFinder XLS is compatible with a full line of intelligent initiating devices, highlighted by the *FirePrint* application-specified detectors: Models HFP-11 and HFPT-11. FireFinder XLS functions with the Siemens Fire Safety portfolio of graphics command centers.

Fire Safety Management Stations – XLS Compatible

FireFinder XLS Compatibility with Siemens Fire Safety Management Stations

FireFinder XLS panels are compatible with Siemens Fire Safety Management Stations, which provide integrated and reliable FACP monitoring and control of XLS system events – including: *Alarm*, *Trouble*, *Security* and *Supervisory* commands.

Each management station includes PC-based, color-graphics software designed for use with the XNET network, offering full control and annunciation.

An extensive history log of all XLS-FACP events, as well as extensive report-generation capabilities, is easily maintained. Additionally, user-programmable function buttons allow site-specific control functions.

PMI-3 →Person Machine Interface 3

PMI-3 → Person Machine Interface 3

The Person Machine Interface 3 (Model PMI-3) is the primary user interface and central microprocessor for each FireFinder FACP.

Enhancements to the third version of the Person Machine Interface include go-to-beginning, go-to-end queue buttons; a front-end command screen with *Alarm* | *Supervisory* | *Trouble* light-emitting diodes (LEDs), and three (3) types of alternate-language overlays orderable in a single (1) part.

(see: **Details for Ordering** section below for more info.)

FireFinder XLS FACPs are controlled and operated from Model PMI-3, which uses large, lighted buttons to prompt the end-user to the next available, correct system operation (i.e. – *Acknowledge* | *Silence* | *Unsilence* | *Audible* | *Reset*).

The controller in Model PMI-3 provides a 6" (15.2 cm.) front-end touch screen comprised of system-status LEDs as well as a liquid-crystal display (LCD) of $1200 - x - 800$ pixels.

There are overlays that provide naming in alternate languages for visual indicators found on the front of each Model PMI-3. Each overlay is assigned on the outer assembly, respectively, when affixed to the display on the user interface.

Model PMI-3 contains the site-specific program configuration created in the software tool, *Zeus*.

ZIC-4A →Zone Indicating Card
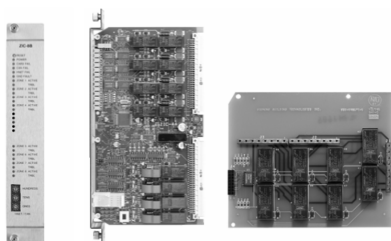
ZIC-4A Zone Indicating Card

The Zone Indicating Card (Model ZIC-4A) provides four (4) fully supervised, programmable output circuits for use on each FireFinder XLS. Model ZIC-4A supplies four (4) 'Class B' (Style Y) or 'Class A' (Style Z) type output circuits, power limited to 3.0 amps maximum per circuit.

Each circuit for Model ZIC-4A can be independently programmed for use with listed audible or visual notification appliances; listed emergency audio speakers; municipal tie boxes; leased lines, or as releasing circuits.

FireFinder XLS Components — (cont.'d)

Model ZIC-4A plugs into one (1) slot in the Model CC-5 or Model CC-2 card cage, and has on-board LEDs for system status and troubleshooting.

Indication of power, communication, internal operation, and ground-fault conditions are provided, as well as indication of circuit activation or *Trouble* conditions.


ZIC-8B / ZIC-2C → Zone Indicating Cards

ZIC-8B / ZIC-2C

The Zone Indicating Card (Model ZIC-8B) provides eight (8) fully supervised, programmable output circuits for use on FireFinder XLS. Model ZIC-8B supplies eight (8) 'Class B' (Style Y) type output circuits, power limited to 2.0 amps maximum per circuit. Each circuit can be independently programmed for use with listed audible or visual notification appliances, or listed emergency audio speakers. Model ZIC-8B plugs into one (1) slot in the Model CC-5 or Model CC-2 card cage, and has on-board LEDs for system status.

Model ZIC-2C mounts directly on Model ZIC-8B, and allows each of the Model ZIC-8B output circuits to be used for two-channel voice applications. Indication of power, communication, internal operation, and ground-fault conditions are provided, as well as indication of circuit activation or *Trouble* conditions.
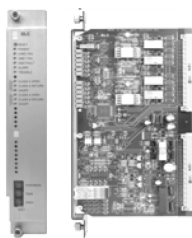
DLC →Device Loop Card

DLC Device Loop Card

The Device Loop Card (Model DLC) is the interface for connection with FireFinder XLS detectors and initiating devices — including manual stations, control and input devices. Model DLC plugs into one (1) slot of the CC-2 or CC-5 card cage. Programming Model DLC is accomplished using the FireFinder XLS system-programming tool, *Zeus*.

Model DLC takes one (1) address on the network, and communicates with two (2) device circuits for a total of 252 detectors and devices. Model DLC has 12 LEDs for diagnostic purposes, and provides ground-fault detection and zone-isolation circuitry.

NIC-C → Network Interface Card

NIC-C Network Interface Card

The Network Interface Card (Model NIC-C) provides HNET or XNET network communications between enclosures. In addition to the HNET or XNET communication, Model NIC-C provides CAN network communication within an enclosure or external to the enclosure. HNET or XNET communication can be wired Style 4 or Style 7, but the CAN network can be wired Style 4 only.

When used for HNET communications, Model NIC-C provides contact between enclosures on a single system.

When Model NIC-C is used for XNET communications, Model NIC-C provides communication between systems. The maximum of XNET Model NIC-C cards on a single system (single node) is one (1), for a total of 64 XNET Model NIC-C cards on a peer-to-peer networked system.

Model NIC-C has diagnostic LEDs that indicate: Card Fail, CAN Fail, HNET Fail, XNET Fail, Ground Fault, Loop 'A' Fail and Loop 'B' Fail. Model NIC-C Card also has LEDs to indicate Power, Style and Active Networks.


HCP → Control Point Module

HCP Control Point Module

Model HCP can be programmed as an independent, remotely located telephone zone, speaker zone or notification appliance circuit. Model HCP is designed to be used with the Siemens – Fire Safety Alarm Signaling Devices product line.

Model HCP communicates through the Model DLC analog loop, and can be wired either 'Class A' (Style Z) or 'Class B' (Style Y). The 24 VDC power input comes from either the control panel or from any ®UL Listed power-limited, auxiliary power supply.
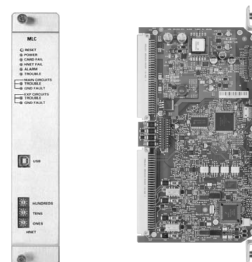

MLC → MXL Line Card [for FireFinder XLS]

FireFinder XLS Components — (cont.'d)

MLC - MXL Line Card [for FireFinder XLS]

The MXL Line Card (Model MLC) is an optional card for the FireFinder XLS panel that supplies two (2) intelligent analog circuits, utilizing the Model ' I ' series; Model ' ID ' series; Model ` IL ' series or Model ' FP ' series-type intelligent devices. Model MLC occupies two (2) addresses on the HNET network, and devices connected to the Model MLC circuits are dynamically supervised by FireFinder XLS through the use of a unique communications protocol.
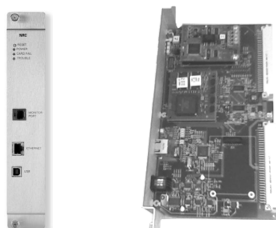

NRC → Network Ring Card

NRC Network Ring Card – Second Generation

Model NRC, which is the 2nd generation of Model NRC, is a networking ring card that transmits single-mode or multi-mode network communication via fiber-optic or copper lines. Each card uses a 'Class A' (Style 7) ring configuration for connection with each FireFinder XLS FACP.

One (1) Model NRC (per system node) provides XNET, peer-to-peer communication between FireFinder XLS FACPs, allowing a max, 64, XLS FACPs to be networked together.
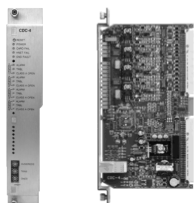
CDC-4 →Conventional Detector Card

CDC-4 Conventional Detector Card

The Conventional Detector Card (Model CDC-4) is used to monitor Siemens Fire Safety conventional detectors on the FireFinder XLS system. Model CDC-4 can be used in applications where conventional detectors are more suited than addressable detectors, such as hallways or large meeting rooms. Also, Model CDC-4 can be used to upgrade Siemens conventional fire-alarm panels to the FireFinder XLS system without requiring detector replacement.

CRC-6 → Controllable Relay Card

## CRC-6 Controllable Relay Card

The Controllable Relay Card (Model CRC-6), Model CRC-6, is designed to provide auxiliary control of building functions, such as: door-holder release, elevator capture, smoke control, lock release, etc. Model CRC-6 plugs into one (1) slot in the Model CC-5 or Model CC-2 card cage. Model CRC-6 provides six (6), fully programmable relays. Each relay contains one (1) set of SPDT contacts rated at 4 Amps 30 VDC / 120VAC resistive and 3.5 amps 120VAC inductive (0.6 P.F.)

SIM-16 → Supervised Input Module

SIM-16 Supervised Input Module

The Supervised input Module (Model SIM-16) is a remotely located, general-purpose input module. Model SIM-16 provides 16 input circuits for remote system monitoring. Each input can be individually programmed as supervised (dry-contact only) or unsupervised (general-purpose input.) Model SIM-16 has two (2) 'Form C' relays. The relays and inputs are programmed using the *Zeus* system software-programming tool.
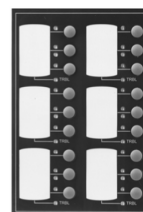
FCM-6 → Fan, Motor, Dampers Control Module

FCM-6 Fan, Motor, Dampers Control Module

The Fan, Motor, Dampers Control Module (Model FCM-6) is a FireFinder XLS command-console option module that provides manual control of building HVAC system fans, motors, and dampers. Each Model FCM-6 module provides six (6) sets of three (3) push-button switches for manual-system control. Each switch has three (3), associated LEDs to indicate Fan / Damper / Motor status: OFF (RED LED), ON (GREEN LED), *Trouble* (YELLOW LED).


VNTPC → Virtual Network Tunnel

VNTPC Virtual Network Tunnel

The Virtual Network Tunnel (VNT) is an efficient means for real-time communication, as well as providing support to HNET, XNET and DNET monitoring and supervision – when used as part of a Fire Command Center or a Building network. Each Model VNTPC is a fanless, headless industrial computer, receiving its operating power from an XLS/V panel.

FireFinder XLS Components — (cont.'d)

**CC-2 →Card Cage-2 Slots**
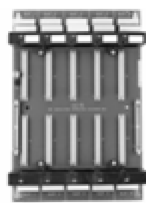
CC-5 →Card Cage-5 Slots

CC-5 / CC-2 Card Cages

The Models CC-5 / CC-2 card cages provide the physical mounting location and all wiring connection points for all fire-and-voice system options cards for the FireFinder XLS system. Model CC-5 has five (5) slots, while Model CC-2 has two (2) slots.

All cards plugged into the CC-5 / CC-2 card cage communicate with other FireFinder XLS modules via a common data bus. Connectors are provided on the left and right side of the CC-5 to connect a 60-pin cable for communications with the FireFinder XLS operator interface, power supplies and amplifiers modules.

Field wiring to devices and circuits terminates on the Models CC-5 / CC-2 card cages. All cards designed for use with the Models CC-5 / CC-2 route their field wiring terminations to the 'top' of the Model CC-5 / CC-2 card cages. These connections are all power limited. Internal wiring connections distribute 24VDC to cards or high-level audio signals (depending on application used) connect to the 'bottom' of the Model CC-5 / CC-2 card cages. These connections are all non-power limited.

All wiring connections to the Model CC-5 / CC-2 card cages are to removable terminal blocks. Terminal blocks are rated for use with wire sized 12 American Wire Gauge (AWG) to 24AWG. Each connector is numbered to make wiring terminations to the correct position on the terminal block simple in order to reduce potential wiring errors.
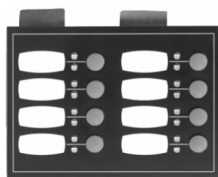

SCM-8 → Switch Control Module

SCM-8 Switch Control Module

The Switch Control Module (Model SCM-8) is a FireFinder XLS-option module that provides manual control to the Emergency Voice Evacuation System (EVAC) or manual fire-system control. Each Model SCM-8 module provides eight (8) momentary push-button switches and 16 light-emitting diodes (LEDs) to indicate their status.

Each switch is assigned two (2) LEDs, as well as a label to indicate the switch's programmed usage. The label slides behind a clear protective membrane. One set of LEDs assigned to each switch is a dual-colored LED, which is used to indicate what type of signal is active.

Each Model SCM-8 switch is fully programmable, and may be used to control speaker circuits and a wide range of general-system functions such as: *All Call*, *All Evac*, *Warden's Page*, *Speaker*, etc. Any number of circuits may be grouped and controlled by a single switch. Switch usages and zone groupings are assigned using the *Zeus* system software-programming software. Model SCM-8 modules are mounted on a hinged panel, as a part of the FireFinder XLS Command Console enclosure.
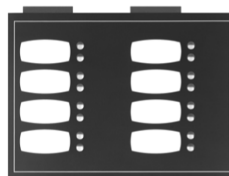

LCM-8 → LED Control Module

LCM-8 LED Control Module

The LED Control Module (Model LCM-8) is a FireFinder XLS-option module that provides LED annunciation for FireFinder XLS system activity. Each Model LCM-8 contains eight (8) groups of two (2) LEDs – each of which can be assigned to desired outputs using the *Zeus* system software-programming tool.

Eight (8) LEDs are dual-color capable (RED or GREEN / *flashing* or *steady*). The remaining LEDs are AMBER *flashing* or *steady*. A space is provided for labeling of LED functions. The label slides behind a clear, protective membrane. Model LCM-8 dimensions are identical to Model SCM-8, and Model LCM-8 is mounted on the same hinged panel, as a part of the FireFinder XLS Command Console enclosure.
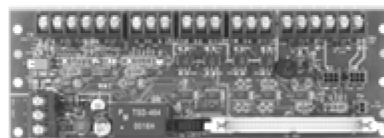
RNI → Remote Network Interface

RNI Remote Network Interface

The Remote Network Interface (Model RNI) provides a connection point for use with equipment mounted in a remote-lobby enclosure on the FireFinder XLS FACP. Model RNI is used to provide additional input, output and control features to the system remotely, via the main FACP.

These additional features may include control switches and indicators: (Models SCM-8, LCM-8 and FCM-6), remote-emergency paging microphones or telephones: (Models LVM, FMT), or controls used in graphic annunciators (Models SIM-16, OCM-16) or system-status display with the ability to *acknowledge* alarms, *silence* audibles and *reset* the system (Model SSD-C-REM).

Model RNI allows The Person Machine Interface to be mounted in the Model REMBOX2 or Model REMBOX4 remote lobby enclosure.

FireFinder XLS Components — (cont.'d)

PSC-12 → Power Supply Charger Module

PSC-12 Power Supply Charger Module

The Power Supply Charger Module (Model PSC-12) is a high-current power supply that provides the FireFinder XLS primary-regulated 24VDC power to operate. Model PSC-12 is rated at 12Amps (*Alarm*) / 5Amps (Standby), and has a built-in battery charger, capable of charging up to 100 AH batteries. Model PSC-12 is an addressable-intelligent, microprocessor-controlled module that communicates its status to the system-operator interface.

Each Person Machine Interface is then able to query the status of the power supply to obtain data regarding system-charging current, terminal-loading information, ground-fault conditions and more.

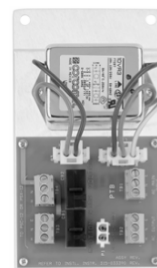**PSX-12 → Power Supply Extender**

PSX-12 Power Supply Extender

The Power Supply Extender (Model PSX-12) is a high-current, auxiliary power supply that expands the main Model PSC-12 power supply and battery charger of the FireFinder XLS system with an additional 24VDC power. Model PSX-12 is rated at 12 Amps.

RPM → Remote Printer Module

RPM Remote Printer Module

The Remote Printer Module (Model RPM) provides a means of connecting the FireFinder XLS system to a printer, such as Model PAL-1, for creating a hard copy of system status and configuration reports. Concurrently, Model RPM provides an output port that can be configured to communicate with external systems.

PTB → Power Termination Board

PTB Power Termination Board

Model PSC-12 comes packaged with a module called the Power Termination Board (Model PTB). Model PTB is required for operation with Model PSC-12. Model PTB filters the power from the incoming AC mains, and distributes it to the Model PSC-12 power supply and the optional Model PSX-12 power-supply extender.

Model PTB has an optional connector that can be used during system installation, commissioning and service to provide the technician with a place to plug in their laptop PC, if required. Model AC-ADPT is an optional accessory cable that allows connection on one side to Model PTB, via a keyed connector and on the other end directly into to the laptop's transformer.

Most laptop-computer external power transformers have removable AC power cords, which can be replaced by the optional Model AC-ADPT to temporarily provide an AC power source for laptop-PC usage during system installation, service and maintenance calls when needed.

**SNU-ASSY → Single-Node Upload (SNU) Module**

SNU-ASSY Single-Node Upload (SNU) Module

The Single-Node Upload (SNU) is an optional system module that provides a solution for uploading / downloading XLS / XLSV configuration data remotely. SNU can easily transmit data from a PC running the Zeus custom-configuration tool to a maximum 64 Person Machine Interfaces.

Each SNU module has three (3) connections: Power, Ethernet and USB. The data transported between the *Zeus* tool and SNU is made through a direct 128-bit, Secure Sockets Layer (SSL) connection.

FireFinder XLS Components — (cont.'d)

RNI Remote Network Interface
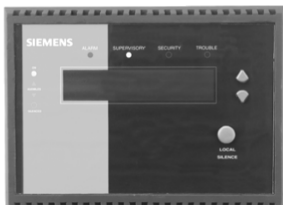
System-Status Display

SSD-Series System-Status Display

The System Status Display (SSD-series model displays) is a remote LED / LCD display that shows the local status of a FireFinder XLS system. An LED illuminates when *Alarm*, *Supervisory*, *Trouble*, and *Security* events occur on the system. A (4) four-line liquid-crystal display (LCD) will give details of the event in alphanumeric form.

The display can be toggled to display additional events. Optional remote system control capabilities are available. Models SSD-C, SSD-C-INT, and Model SSD-C-REM have three (3) additional control buttons to *acknowledge* events, *silence* audible circuits, and *reset* the system.

Models SSD-C and SSD-C-INT have an integral keyswitch that enables these control buttons to operate. Model SSD-C-REM is located within a locked cabinet. Therefore, no additional keyswitch is required for manual activation of the control buttons.
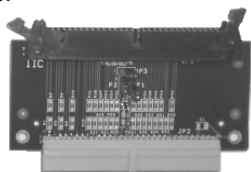
IIC → Interface Isolation Card

IIC – Interface Isolation Card

The Interface Isolation Card (Model IIC) is designed to isolate network signals when used with a Model NCC ring configuration, via Model NRC. Model IIC executes the aforementioned isolation by removing the backplane network signals from each Model CC-2 card cage. Model IIC also provides one (1) end of CAN termination on each side of Model CC-2.

XDACT-ASSY→ XDACT Assembly

XDACT-ASSY   XDACT Assembly

The XDACT Assembly (Model XDACT-ASSY) is the blank plate used for holding the optional Digital Alarm Communication Transmitter (DACT), Model FCA2015-U1 on FireFinder XLS.

Model XDACT-ASSY can be mounted on all CAB-series enclosures. Each assembly must be located in the Global Person Machine Interface cabinet for global configurations.

Available communication protocols on a DACT module include: SIA DCS 8 **|** SIA DCS 20 **|** Ademco Contact ID.

MDACT → Multi-Point Digital Alarm Communicator Transmitter

MDACT – Multi-Point Digital Alarm Communicator Transmitter

The Multi-Point Digital Alarm Communicator Transmitter (Model MDACT) is used in FireFinder XLS systems where point identification of *Alarm*, *Supervisory*, *Security* and *Trouble* events is required at Central or Remote Receiving Stations. An intelligent RS–485 communications protocol transmits all system information to Model MDACT.

The installer selects the specific event or groups of events that are set to transmit from Model MDACT over phone lines to listed receiving station equipment.

In turn, Model MDACT can transmit point information, via the Ademco Contact ID and the SIA protocol. A mounting plate (Model MOM2-XMP), MOM-2 card cage, and an XMI Interface Card are required for installation.

CAB1 → Single Row Enclosure

CAB1 Single Row Enclosure

Model CAB 1, the smallest of the FireFinder XLS enclosures, can house a single Model CAB-MP cabinet mounting plate for mounting card cages, power supplies and bulk amplifiers. Model CAB1 also has four (4) mounting slots on the inner door for mounting The Person Machine Interface and Model ID-MP switch module brackets.

Model CAB1 comes complete with a **black** back box; **black** inner and outer doors; a single lock and key set on the outer door; a single, installed cabinet mounting plate (Model CAB-MP), and a single, installed outer door lens plate (Model OD-LP). A red version (Model CAB1-R) is also available.

Approximate size: 27" (68.6cm.) high, 26" (66cm.) wide, and 8" (20.3cm.) deep.

FireFinder XLS Components — (cont.'d)

CAB2 → Two-Row Enclosure

CAB2 Two-Row Enclosure

The Two-Row Enclosure (Model CAB2) is the mid-sized FireFinder XLS enclosure capable of housing up to two (2) Model CAB-MP cabinet mounting plates. The inner door has two (2) rows of four (4) mounting slots.

The outer door has space for mounting two (2) outer door plates (Models OD-LP, OD-BP or OD-GP), and can be configured to open from either side. Model CAB2 consists of the **black** Model CAB2-BB back box, the Model CAB2-BD **black** inner and outer door package, and one (1) Model OD-LP lens plate. The outer door has a single lock and key set installed. A red version (Model CAB2R) is also available, and a CAB2- RB back box is used with Model CAB2R.

Approximate size is 45" (114.3cm.) high, 26" (66cm.) wide, and 8" (20.3cm.) deep.

CAB3 → Three-Row Enclosure

CAB3 Three-Row Enclosure

Model CAB3, the single largest FireFinder XLS enclosure available, can house a maximum three (3) Model CAB-MP cabinet mounting plates in the enclosure, and three (3) rows of inner-door mounting slots.

The outer door can be configured to open from either side. Model CAB3 consists of the Model CAB3-BB back box, the Model CAB3-BD **black** inner and outer door package, and one (1) Model OD-LP lens plate. The outer door has two (2) locks and key sets installed. A red version (Model CAB3R) is also available.

Approximate size is 63" (160cm.) high, 26" (66.4cm.) wide, and 8" (20.3cm.) deep.

CAB-MP → Cabinet Mounting Plate

CAB-MP Cabinet Mounting Plate

The Model CAB-MP cabinet mounting plate provides mounting for a single row of modules in a FireFinder XLS cabinet. Four (4) module spaces are available on Model CAB-MP, which is used to mount the Model CC-5 card cage; the Model CC-2 card cage; the Model PSC-12 power supply; the Model PSX-12 power-supply extender, and the Model ZAM-80 / 180-zone amplifiers.

Enclosure Trim Kits

Trim kits are available for all system enclosures for semi-flush mounting applications. Model CAB1-TK (for **black** enclosures) and the Model CAB1R-TK (for red enclosures) fit inside the Models CAB1 and CAB1-R enclosures. Similarly, Models CAB2-TK and CAB-2R-TK fit inside the Model CAB-2 enclosure, while Models CAB3-TK and CAB3R-TK fit the Model CAB-3 enclosure.

Remote Transponders

The FireFinder XLS system can use remote transponders for mounting additional modules such as amplifiers without requiring a Person Machine Interface or any control switches. Special doors are available for systems using Model CAB-2 or Model CAB-3 remote transponders. These doors (Models CAB2-XBD and CAB3-XBD) omit the unused inner door, and come complete with ventilation louvers built into the door.

Model CAB2-XBD fits into Model CAB2-BB, and Model CAB3-XBD fits into Model CAB3-BB. Model CAB2-XBD and CAB3-XBD are supplied in **black**. Red versions (Models CAB2-XRD and CAB3-XRD) are also available. Complete box and door kits are available, Models CAB2-X and CAB3-X.

ID-MP → Inner Door Mounting Plate

ID-MP Inner Door Mounting Plate

The inner door mounting plate (Model ID-MP) is mounted on the inner door of any given model CAB enclosure. Model ID-MP plates are used to mount switch-control modules (Model SCM-8); LED control modules (Model LCM-8), or fan-control modules (Model FCM-6).

Four (4) mounting plates are included with each order of Model ID-MP. Each mounting plate has four (4) spaces for control modules, and can hold either four (4) Model SCM-8 modules (one [1] control module space for each module); four (4) LCM-8 (one [1]control module space for each module), or two (2) Model FCM-6 modules (two [2] module spaces for each module).

FireFinder XLS Components — (cont.'d)

ID-MP Inner Door Mounting Plate

Combinations are also allowed. Blank spaces in Model ID-MP can be covered using the blank-control-module plate (Model BCM). Up to four (4) modules can be mounted in a single row on the inner door.

ID-SP → Inner Door Blank Single Plate

## ID-SP Inner Door, Blank Single Plate

The inner door, blank single plate (Model ID-SP) is used to cover any single-module blank spaces within the inner door where no Person Machine Interface or Model ID-MP is being used. Up to four (4) Model ID-SP modules can be mounted in a single row on the inner door. Two (2) blank plates are included with each order of Model ID-SP.
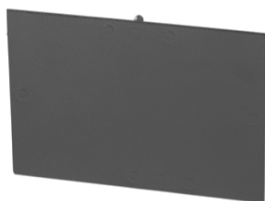
BCM → Blank Control Module Plate

BCM Blank Control-Module Plate

Model BCM plates can be mounted on a single ID-MP. Four (4) blank module plates are included with each order of Model BCM.
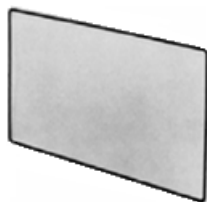
OD-LP → Outer Door Lens Plate

## OD-LP Outer Door Lens Plate

The Outer Door Lens Plate (Model OD-LP) is a clear plastic lens plate mounted on the outer door of a system cabinet. Model OD-LP is used to allow operators to see the system interface and controls mounted on the inner door, but restricts access to unauthorized users. The plate covers an entire row on the outer door. A single lens plate is included with each order of Model OD-LP.
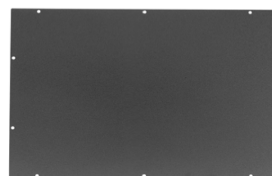
OD-BP → Outer Door Blank Plate

OD-BP Outer Door Blank Plate

The Outer Door Blank Plate (Model OD-BP) entirely covers an unused row of a XLS system cabinet, and is mounted on the outer door. One (1) blank plate is included with each order of Model OD-BP.
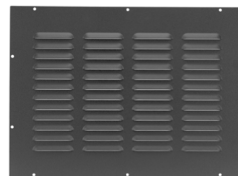
OD-GP → Outer Door Grill Plate

OD-GP Outer Door Grill Plate

The Outer Door Grill Plate (Model OD-GP) also covers an entire row on the outer door of a system cabinet, but has four (4) rows of ventilation louvers on it. Model OD-GP is mounted in front of system bulk amplifiers, card amplifiers, or other modules that generate heat. Using Model OD-GP will permit airflow across these modules to aid in heat dissipation. One (1) grill plate is included with each order of Model OG-GP.

Remote System Enclosures

Models REMBOX2 and REMBOX4 are *FireFinder* XLS system enclosures that are used for remotely mounting inner-door modules, such as: Person Machine Interfaces; switch modules (Model SCM series); Live Voice Modules (Model LVM), and Firefighters' Master Telephone (Model FMT) modules.

Models REMBOX2 and REMBOX4 are thinner than regular Model CAB-series of enclosures – just 5" (12.7cm.) deep overall, and are perfect for mounting in limited-space areas (e.g. – office-complex lobbies or behind a receptionist's desk).

No card cages, power supplies or bulk amplifiers can be mounted in a given Model REMBOX-series enclosure due to their smaller depth. However, Person Machine Interfaces and some modules (e.g. – the remote network interface module [Model RNI]; the output control module [Model OCM-16], and the supervised input module [Model SIM-16]) can be mounted in a given Model REMBOX-series enclosure.

Due to the depth of Models LVM and FMT, no Model OCM-16 or Model SIM-16 modules can be used simultaneously with Model LVM or Model FMT. Model REMBOX2 and Model REMBOX4 are designed for flush mounting with no trim kit required. Both enclosures also come with a clear lens plate on the cover.

FireFinder XLS Components — (cont.'d)

REMBOX2 → Two-Module Remote Enclosures

REMBOX2 Two Module Remote Enclosures

Model REMBOX2 has two (2) inner-door module spaces, and can hold a single Person Machine Interface, up to two (2) switch module brackets and one (1) Model LVM. Combinations are also allowed.

Model REMBOX2 can also mount a single RNI remote network interface on a bracket included in the backbox.
A bracket, known as Model REMBOX2-MP, can be used to mount up to four (4) Model OCM-16 output control modules or SIM-16 supervised input modules.

Model REMBOX2-MP must be purchased separately.

Approximate size of Model REMBOX2 is 14-1/2" (36.8cm.) wide, 18-1/2" (47cm.) high and 5" (12.7cm.) deep.

REMBOX4 → Four-Module Remote Enclosures

REMBOX4 Four-Module Remote Enclosures

Model REMBOX4 has space for mounting four (4) inner-door modules. Any combination of A Person Machine Interface (two-module spaces); switch module brackets; Model LVM, or Model FMT (one-module space each) can be used. Unused module spaces can be covered with Model ID-SP blank plates. Model REMBOX4 can also mount a single, remote network interface (Model RNI) on a bracket included in the backbox.

A bracket known as Model REMBOX4-MP can be used to mount up to eight (8) output control modules (Model OCM-16) or supervised input modules (SIM-16).

Approximate size of Model REMBOX4 is 24" (61cm.) wide, 18-1/2" (47cm.) high and 5" (12.7cm.) deep.

Model REMBOX4-MP must be purchased separately.

XLS-MSE2-ADPT →Enclosure Adapter

XLS-MSE2/R-ADPT – XLS MSE-2/R Enclosure Adapter

Model XLS-MSE2-ADPT, which must be used in conjunction with Model CAB-MP, is an adapter that allows FireFinder XLS cards to be mounted in older-generation MXL Model MSE-2 small **black** enclosures.

Model XLS-MSE2R-ADPT, which must be used in conjunction with Model CAB-MP, is an adapter that allows FireFinder XLS cards to be mounted in older-generation MXL Model MSE-2R small red enclosures.

XLS-MME3-ADPT →Enclosure Adapters

XLS-MME3/R-ADPT – XLS MME-3/R or MBR-2 Enclosure Adapters

Model XLS-MME3-ADPT, which must be used in conjunction with Model CAB-MP, is an adapter that allows FireFinder XLS cards to be mounted in older- generation MXL Model MME-3 or Model MBR-2 medium **black** enclosures.

Model XLS-MME3R-ADPT, which must be used in conjunction with Model CAB-MP, is an adapter that allows FireFinder XLS cards to be mounted in older-generation MXL Model MME-3R medium red enclosures.

XLS-MLE6-ADPT →Enclosure Adapter

XLS-MLE6/R-ADPT – XLS MLE-6/R Enclosure Adapter

Model XLS-MLE6-ADPT, which must be used in conjunction with Model CAB-MP, is an adapter that allows FireFinder XLS cards to be mounted in older-generation MXL Model MLE-6 large **black** enclosures.

Model XLS-MLE6R-ADPT, which must be used in conjunction with Model CAB-MP, is an adapter that allows FireFinder XLS cards to be mounted in older-generation MXL MLE-6R large red enclosures.

FireFinder XLS Components — (cont.'d)

XLS-MSE3-ADPT →Enclosure Adapters

XLS-MSE3/R-ADPT – XLS MSE-3L/R or MSE-3M/R Enclosure Adapters

Model XLS-MSE3-ADPT is an adapter that allows FireFinder XLS cards to be mounted in older-generation MXL-IQ Model MSE-3L or Model MSE-3M **black** enclosure.
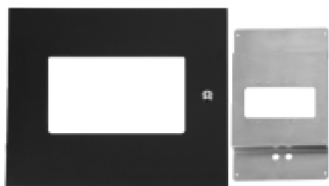
Model XLS-MSE3R-ADPT is an adapter that allows FireFinder XLS cards to be mounted in older-generation MXL-IQ Model MSE-3LR or Model MSE-3MR red enclosure.
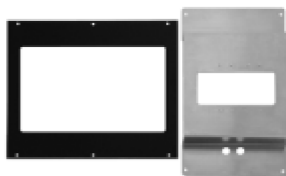
XLS-RCC1-ADPT →Enclosure Adapter

XLS-RCC-1-ADPT – XLS RCC-1 Enclosure Adapter

Model XLS-RCC1-ADPT is an adapter that allows the FireFinder XLS Model SSD/-C series remote annunciator to be mounted in older-generation Model RCC-1 surface-mount enclosure.

**XLS-RCC13F-ADPT →Enclosure Adapters**

XLS-RCC13F/R-ADPT – XLS RCC-1F/R or RCC-3F/R Enclosure Adapters

Model XLS-RCC13F-ADPT is an adapter that allows the FireFinder XLS Model SSD/-C series remote annunciator to be mounted in older-generation Model RCC-1F or Model RCC-3F **black**, flush-mount enclosure.

Model XLS-RCC13FR-ADPT is an adapter that allows the Model SSD/-C series to be mounted in older-generation RCC-1FR and RCC-3FR, red flush-mount enclosure.

VPM → VESDA Interface Equipment
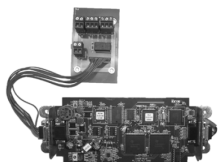
VESDA-HLI-KIT → VESDA High-Level Interface Kit


VPM-MP → VESDA Mounting Plate

VPM, VESDA-HLI-KIT and VMP-MP – VESDA Interface Equipment

The Very Early Smoke Detection Aspiration (VESDA) Peripheral Module (Model VPM) and the VESDA High-Level Interface Kit (Model VESDAHLI-KIT) are optional FireFinder XLS modules that work in conjunction to provide bi-directional communication between the FireFinder XLS FACP and multiple VESDA detection networks for the following types of VESDA detectors:

- LaserCOMPACT
- LaserFOCUS
- LaserPLUS
- LaserSCANNER

Model VPM allows each FireFinder XLS FACP to annunciate 'Alert,' 'Action,' 'Fire 1,' and 'Fire 2' levels, as well as provide 'faults' from any zone on a connected VESDA network.

The VPM Mounting plate (Model VPM-MP) allows mounting one (1) Model VPM and two (2) of Model VESDAHLI-KIT inside a standard FireFinder XLS Model CAB1, Model CAB2 or Model CAB3 enclosure. Model VPM-MP utilizes two (2) module spaces on a single row of each enclosure.
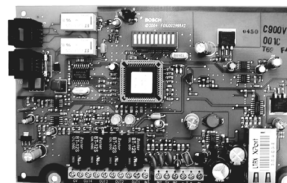
C900V2 →Dialer-Capture Ethernet Module

C900V2 – Dialer-Capture Ethernet Module

The Dialer-Capture Ethernet Module (Model C900V2) links the data output of Model MDACT from the FireFinder XLS FACP to an Ethernet connection — on a local-area network (LAN) or wide-area network (WAN) — for communication to a central station over the Internet.

Model C900V2 also allows Model MDACT to be optionally linked to the public switched telephone network (PSTN) for communication to a central station over telephone lines.

Temperature and Humidity Range

FireFinder XLS components are ®UL 864 9th Edition Listed for indoor dry locations within a temperature range of 120+/-3°F (49+/-2°C) to 32+/-3°F (0+/-2°C) and a relative-humidity range of 93+/-2% at a temperature of 90+/-3°F (32+/-2°C).

Details for Ordering

Model	Part Number	Description
AC-ADPT	500-633992	Technician Laptop-Power connector
BCM	500-033320	Blank control module plate, [four (4) per package]
C900V2	S54430-C13-A2	Dialer-Capture Ethernet Module
CAB-1	500-633007	Complete Single-Row Cabinet, **black**
CAB-1R	500-633728	Complete Single-Row Cabinet, red
CAB1-TK	500-633013	Single-Row Trim-kit Cabinet, **black**
CAB1R-TK	500-633729	Single-Row Trim-kit Cabinet, red
CAB2-BB	500-633009	(2) Two-Row Back Box, **black**
CAB2-RB	500-634941	(2) Two-Row Back Box, red
CAB2-BD	500-633008	(2) Two-Row Inner & Outer Door set, **black**
CAB2-RD	500-633755	(2) Two-Row Inner & Outer Door set, red
CAB2-TK	500-633014	(2) Two-Row Trim-kit Cabinet, **black**
CAB2R-TK	500-633753	(2) Two-Row Trim-kit Cabinet, red
CAB2-XBD	500-633768	CAB2 Transponder Door
CAB2-X	599-034252	Complete CAB2 w/ Transponder Door [no inner door]
CAB2-XRD	500-633792	Medium-Enclosure Transponder Door, red [mounts to Model CAB2-RB]
CAB3-BB	500-633011	(3) Three-Row Back Box, **black**
CAB3-RB	500-634942	(3) Three-Row Back Box, red
CAB3-BD	500-633010	(3) Three-Row Inner & Outer Door set, **black**
CAB3-RD	500-633757	(3) Three-row Inner & Outer Door set, red
CAB3-TK	500-633015	(3) Three-Row Trim-kit Cabinet, **black**
CAB3R-TK	500-633754	(3) Three-Row Trim-kit Cabinet, red
CAB3-XBD	500-633769	CAB3 Transponder Door
CAB3-X	599-034253	Complete CAB3 w/ Transponder Door [no inner door]
CAB3-XRD	500-633793	Large-Enclosure Transponder Door, red [mounts to Model CAB3-RB]
CAB-MP	500-633012	Back Box Module Mounting Plate
CCL	599-634214	CAN Cable 3 ft. (91.4 cm.) Length required for: SCM / LCM / FCM modules from Models CC-5 / CC-2 Inner Doors and from Row-to-Row on Model CAB-series Inner Doors
CC-2	500-633440	Two (2) Slot Card Cage
CC-5	500-633037	Five (5) slot Card Cage
CDC-4	500-034200	Conventional Detector Card
COM-BRK	S54430-B7-A1	Communications Bracket
CRC-6	500-033250	Controllable Relay Card
CSB	500-033130	CAN Sounder Board
DCT-P	500-699291	MDACT Programmer
DLC	500-033090	Device Loop Card
FCM-6	500-033140	Fan-Control-Module Switches {ON, OFF, AUTO}
HCP	500-034860	Intelligent Control Point Module
HLIM	500-033170	Line-Isolator Module
ID-MP	500-633027	Inner-Door Enclosure Mounting Plate, [four (4) per package]
ID-SP	500-633028	Single-Module Inner-Door Enclosure Mounting Plate, [two (2) per package]
IIC	500-850328	Interface Isolation Card
LCM-8	500-033100	LED Annunciator Module [eight (8) LED sets]
MDACT	500-699254	Multi-Point Digital-Alarm Communication Transmitter
MLC	S54431-B4-A1	MXL Addressable-Device Line Card
MOM2-XMP	500-634822	Mounting Plate for Model MOM-2
MOM-2	500-892766	MXL Module Card Cage [one (1) full slot]
NIC-C	500-033240	Network Interface Card

Details for Ordering — (continued)

Model	Part Number	Description
NRC	S54430-A2-A1	Network Ring Card: 2nd Generation
OD-BP	500-633017	Outer Door Blank Plate
OD-BP-R	500-634919	Outer Door Blank Plate, red
OD-GP-R	500-634920	Outer Door Grill Plate, red
OD-GP	500-633018	Outer Door Grill Plate
OD-LP	500-633016	Outer Door Lens Plate
PAL-1	500-692407	®UL Listed Parallel Printer
PMI-3	S54430-C15-A1	Person Machine Interface 3
PMII-3 (Overlays)	S54430-C16-A1	Alternate-language Overlays for navigation on a FireFinder XLS operation interface
PSC-12	500-033340	Power supply with battery charger [12A @ 24VDC]
PSX-12	500-034120	Power supply extender [12A @ 24VDC]
PTB	500-033390	Power termination board
REMBOX2	500-633772	(2) Two-module remote lobby enclosure, **black**
REMBOX2R	500-650612	(2) Two-module remote lobby enclosure, red
REMBOX2-MP	500-634211	Mounting plate for Models OCM-16 / SIM-16 in Model REMBOX2
REMBOX4	500-633914	(4) Four-module remote lobby enclosure, **black**
REMBOX4-MP	500-634212	Mounting plate for Models OCM-16 / SIM-16 in Model REMBOX4
REMBOX4R	500-650613	(4) Four-module remote lobby enclosure, red
RNI	500-033420	Remote network interface module
RPM	500-033270	Remote printer module
SCM-8	500-033040	Switch module, eight (8) switches
SIM-16	500-034060	Supervised input module
SNU-ASSY	S54430-A3-A1	SNU Processor and USB cables (w/ SNU IOM)
SSD	500-034740	System-status display
SSD-C	500-648733	System-status display with control
SSD-INT	500-034740	System-status display with multi-lingual overlays
SSD-C-INT	500-034750	System-status display with control and multi-lingual overlays
SSD-C-REM	500-634773	System-status display with control for remote lobby enclosure
VNTPC	500-650490	Virtual Network Tunnel
VPM	S54430-F93-A2	VESDA Peripheral Module
VPM-MP	S54430-F95-A2	Mounting Plate for VESDA Peripheral Module
VESDA-HLI-KIT	S54430-F99-A2	VESDA High-Level Interface Kit
XDACT-ASSY	S54430-A5-A1	XDACT mounting plate (w/ cable)
XLS-MLE6-ADPT	S54430-C9-A1	MLE-6 enclosure adapter for XLS, **black**
XLS-MLE6R-ADPT	S54430-C9-A2	MLE-6R enclosure adapter for XLS, red
XLS-MME3-ADPT	S54430-C8-A1	MME-3 and MBR-2 enclosure adapters for FireFinder XLS, **black**
XLS-MME3R-ADPT	S54430-C8-A2	MME-3R enclosure adapter for XLS, red
XLS-MSE2-ADPT	S54430-C7-A1	MSE-2 enclosure adapter for XLS, **black**
XLS-MSE2R-ADPT	S54430-C7-A2	MSE-2R enclosure adapter for XLS, red
XLS-MSE3-ADPT	S54430-C14-A1	MXL-IQ MSE-3L and MSE-3M enclosure adapters for FireFinder XLS, **black**
XLS-MSE3R-ADPT	S54430-C14-A2	MXL-IQ MSE-3LR & MSE-3MR enclosure adapters for XLS, red
XLS-RCC1-ADPT	S54430-Z14-A1	RCC-1 enclosure adapter for XLS-SSD, **black**
XLS-RCC13F-ADPT	S54430-Z13-A1	RCC-1F & RCC-3F enclosure adapters, **black**
XLS-RCC13FR-ADPT	S54430-Z13-A2	RCC-1FR & RCC-3FR enclosure adapters, red
ZIC-2C	500-648671	(2) Two-channel adapter card, via (Model ZIC-8B)
ZIC-4A	500-033050	(4) Four-circuit zone indicating card
ZIC-8B	500-648670	(8) Eight-circuit zone indicating card

Notice: This marketing data sheet is not intended to be used for system design or installation purposes. For the most up-to-date information, refer to each product's installation instructions.