

## FEATURES:

- Addressable Intelligent
- Apollo or System Sensor Protocol
- Addressable & Conventional inputs
- Modular in design
- 126/199 Addressable devices per Loop (Apollo/System Sensor)
- 8 Addressable Loops on 4 Expanders
- 1008/1584 Addressable Devices (Apollo/System Sensor)
- Day / Night sensitivity settings
- Alarm Verification
- Automatic Drift Compensation
- Remote programming option
- Panel to Panel Network capable
- Holiday Scheduling
- Set up Groups
- 60 Conventional Zones
- 6,000 ft extended addressable loop option
- Flash Non-Flash LED option

## Addressable / Conventional FACP Expander



UOJZ.S24186



7170-1446:107  
7165-1446:106



3127525 FACP  
3127886 LCSS

### EF1-2EXP or EF1-4EXP DESCRIPTION:

The expander modules provide two loops of Class A or B addressable devices. Each loop module provides 252 Apollo devices (126 per loop) or 396 System Sensor (SS) devices (198 per loop). The modules may be mounted in the standard Main Cabinet (one or two units or a Separated Cabinet. The Model EF1-EXP-CAB cabinet is used as Separated Cabinet for the remote EF1-LC mounting. A maximum of two loop modules can be installed in one Cabinet. A maximum of four loop modules can be used in a FIRE 1 system.

The expander modules provide the following functions:

- Two Signaling Line Circuits (SLCs).

- Up to 126 (Apollo) or 198 (SS) addressable analog devices can be installed to any loop
- Compatible with System Sensor or Apollo's Discovery and XP95 devices.

- Each SLC is supervised for removing and adding of devices, and for ground fault for both class A and B.

- Each SLC is supervised for open-circuit in Class A and Class B.

- Each SLC provides protection for loop overload or shorting with restart mode. Overload or shorting of one loop, does not have an effect on the other loop

### EF1-LC

Apollo Discovery or XP95 - or - System Sensor protocol Addressable SLC card, capable of 126 Apollo or 198 System Sensor devices per loop.

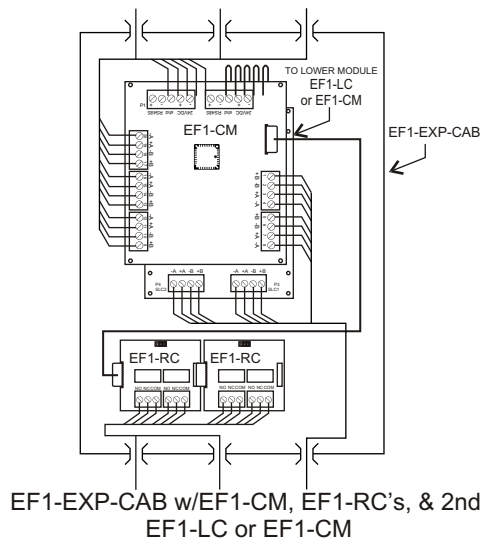
### DESCRIPTION

The Evax FIRE 1 Fire Alarm Control Panel (FACP) is a completely modular design that can be addressable and/or conventional. The basic FACP comes with 2 addressable Signaling Line Circuits (SLC) and can be expanded to 4 addressable loops in the same cabinet. In addition to the four (4) loops being housed in the main cabinet of the FIRE 1 two (2) additional SLC loop cards can be remotely added to the system. These remote SLC loop cards can be mounted up to 6,000 feet from the main FACP. The FIRE 1 is also capable of controlling conventional fire inputs (zone) in increments of 10 zones per input card (maximum of 60 conventional zones).

Each addressable SLC loop can handle 126 Apollo devices per loop for a total of 1008 addressable devices or 198 System Sensor devices (99 sensors and 99 modules) per loop for a total of 1584 addressable devices.

The FIRE 1 FACP has the ability of remotely troubleshooting and or programming the panel through the use of an optional modem installed at the FACP.

The FIRE 1 can *auto program* devices on an addressable loop or program conventional zones on your system. Additionally the FIRE 1 provides automatic drift compensation and is easily programmed from either the Fire panel or through the user friendly Evax system program software.



## Engineering Specification

The Fire Alarm Control Panel (FACP) shall be Addressable loop and Conventional Zone capable. Standard FACP shall be two (2) loops of addressable circuits expandable to eight (8). The system shall be capable of 126 or 198 addressable devices per loop for a total of 1008 or 1584 addressable devices total. Each expander module shall add an addition 2 addressable loops or 10 conventional zones. These expander cards shall be housed in their own cabinets and be capable of being remotely located up to 6,000 feet from the main FACP. The main FACP shall communicate with addressable devices in a digital format, analog communications will not be accepted, system shall have auto program capability, sensitivity adjustments, day/night sensitivity, holiday scheduling, off site programming and troubleshooting, shall be capable of adding internal Form "C" relay contacts housed in the main FACP cabinet, and be capable of automatic drift compensation. System shall be programmed using propriety software or from the main FACP. Panel shall have the ability to add up to 15 remote LCD/LED Annunciators. Panel shall charge up to 40 A-H of standby batteries without the use of an external power supply. The panel shall contain four (4) on-board Notification Appliance Circuits (NACs) that support multiple synchronization protocols or can be programmed auxiliary power. The panel shall utilize a 8 line x 20 character Liquid Crystal Display (LCD) with LED backlight and a 1,000-event history log. The panel shall be an Evax FIRE 1 with EF1-2EXP/4EXP and EF1-10C-EXP expansion modules.

### EF1-10C-EXP Conventional Zone Module EXPANDER

The Conventional Initiating Zone Expansion is implemented by EF1-10C-EXP module. The FIRE 1 FACP allows for six conventional initiating zone expansion modules. The EF1-CM module outputs are compatible with various Apollo two wire fire detectors, and any normally open contact devices. The circuits may also be used as a supervisory circuit to monitor the normally open contacts of supervisory devices or water flow or pressure switches in sprinkler systems.

The EF1-CM module provides five Class A initiating loops or ten Class B initiating loops. The EF1-10CM supervises each Apollo smoke detectors the S60 and S65 series. The EF1-CM modules are mounted in the standard Main Cabinet (one or two modules) or a separate cabinet EF1-EXP-CAB.

## How to Order:

|                    |   |
|--------------------|---|
| <b>EF1</b>         | <b>FIRE 1 2 Loop Addressable FACP Apollo and/or System Sensor Protocol w/ RED cabinet 115/230VAC 50/60 HZ</b> |
| <b>EF1-10C</b>     | <b>10 Zone Conventional FACP W/ RED cabinet 115/230VAC</b>  |
| <b>EF1-UDACT</b>   | <b>SIA1 Protocol Universal Digital Alarm Communicator Transmitter</b>   |
| <b>EF1-CAB</b>     | <b>FIRE 1 &amp; 2 Cabinet only, backbox &amp; door, RED</b>   |
| <b>EF1-CABG</b>    | <b>FIRE 1 &amp; 2 Cabinet only, Backbox &amp; door, GRAY</b>  |
| <b>EF1-2EXP</b>    | <b>2 Addressable Loop expander Apollo and or System Sensor Protocol w/cabinet</b>                             |
| <b>EF1-4EXP</b>    | <b>4 Addressable Loop expander Apollo and/or System Sensor Protocol w/cabinet</b>                             |
| <b>EF1-10C-EXP</b> | <b>10 Class B or 5 Class A Conventional Zone expander w/ cabinet</b>  |
| <b>EF1-LC</b>      | <b>2 Addressable Loop expander Board only - Apollo and/or System Sensor Protocol</b>                          |
| <b>EF1-CM</b>      | <b>10 Zone Conventional IDC Zone expander Board only</b>  |
| <b>EF1-EXP</b>     | <b>Expander Cabinet only backbox &amp; door</b>   |
| <b>EF1-ANN</b>     | <b>Remote LCD/LED Annunciator in Cabinet</b>  |
| <b>EF1-RAN</b>     | <b>Remote LCD/LED Annunciator Board only</b>  |
| <b>EF1-ANN-CAB</b> | <b>Remote Annunciator Cabinet only</b>  |
| <b>EF1-MBC</b>     | <b>EF1 Common System components includes chassis, MMC, PDC, PC &amp; Power Supply 115/230VAC 50-60HZ</b>      |
| <b>EF1-RC</b>      | <b>2 Form C relay board- connects to MCC or EF1-CM</b>  |
| <b>EF1-RCCBL</b>   | <b>Flat ribbon cable for the EF1-RC connect to MCC or EF1-CM board</b>  |
| <b>EF1-KIT</b>     | <b>Mounting Hardware kit for adding LC/CM cards into Expander panels</b>                                      |
| <b>EF1-USB-CBL</b> | <b>FIRE 1 &amp; 2 Laptop Programming Cable, USB A to USB B mini</b>   |

*Specifications are subject to change without notice. Specifications are provided for information only and no responsibility is assumed by Evax Systems, Inc for their use.*