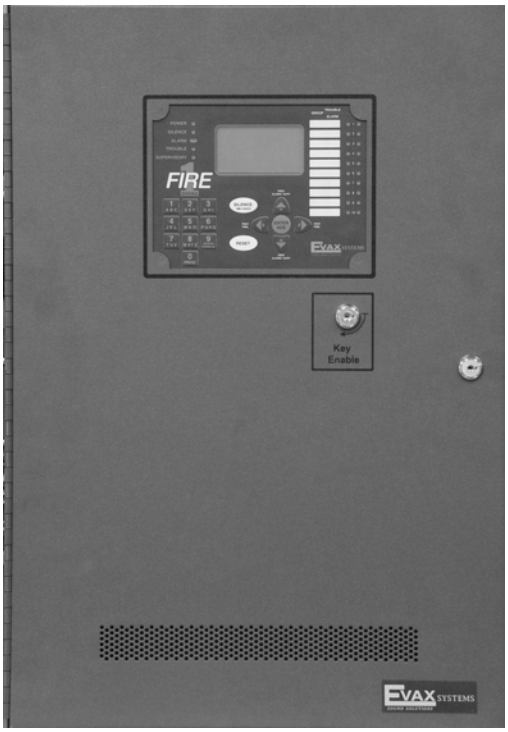
EVAX SYSTEMS
FIRE SOLUTIONS

FIRE 1 Series

EF3

Addressable/Conventional Fire Alarm Control Panel



Listed to UL 864 9th Edition

FEATURES

- Single Board Design
- 1 Addressable Loop
- Multiple Protocols simultaneously on the same loop
- Field Selectable Loop Protocol settings
- Up to 254 Devices
- On board integral UDACT
- Day / Night sensitivity settings
- Alarm Verification/Drift Compensation
- Remote programming option
- 3 Notification Appliance Circuits
- Notification Device Synchronization
- 4 Amp Power Supply
- Panel to Panel Networking
  - Peer to Peer Communication
  - Up to 254 Nodes
- Optional Conventional Zone Cards up to 60 inputs
- Up to 15 Remote LCD Annunciators

DESCRIPTION

The Evax FIRE 1 Series EF3 Fire Alarm Control Panel (FACP) is a single board design that has an addressable loop that is fully enabled. The basic FACP comes with 1 addressable Signaling Line Circuit (SLC), 3 Notification Appliance Circuits (NAC), and an on board integral UDACT.

Additionally the EF3 can be configured with Conventional Initiating Device Circuits (IDC's). The EF3 may be configured with up to 6 EF1-CM Conventional Zone cards (mounted externally) providing a total of 30 Class A or 60 Class B IDC's.

Each EF3 provides 1 SLC and the loop can be field configured for either Evax, Apollo, or System Sensor protocol. The SLC may be configured for any combination of these protocols simultaneously allowing up to 254 total device count on the loop. The SLC can be field wired for Class B (Style 4) or Class A (Style 6 or 7).

The EF3 provides 250 user programmable software groups which can be associated with multiple input and output devices/circuits.

The EF3 FACP has the ability of remotely programming and troubleshooting the panel through the use of an optional modem installed at the FACP.

The EF3 can *auto program* devices on an addressable loop or program conventional zones on the system. Additionally the EF3 provides automatic drift compensation and alarm verification. It is easily programmed using the fire panel display/keypad or through the user friendly Evax system program software.

EF1-RC dual form C programmable relay cards can be connected to the MC and to EF1-CM cards. The EF3 FACP also provides alarm, supervisory and trouble contacts. All relay contacts are rated 2A @ 30VDC.

Adding the EF1-NTWK Network card to the EF3 allows up to 254 EF1, EF2 & EF3 FACP's to be interconnected using twisted pair copper and/or fiber. Auto data rate allows each network link to operate at the most efficient communication speed.

The EF3 FACP supports up to 15 remote connected EF1-ANN LCD annunciators using the internal Rs485 communication buss. This buss also connects to the City Tie/Reverse Polarity Module model EF1-UCT, & Serial Relay Module model EF1-SRM.

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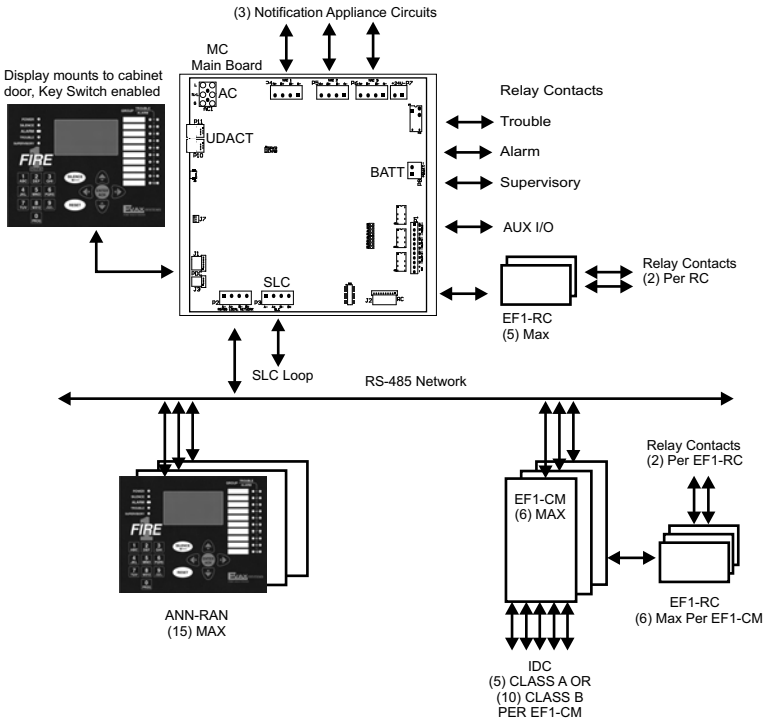

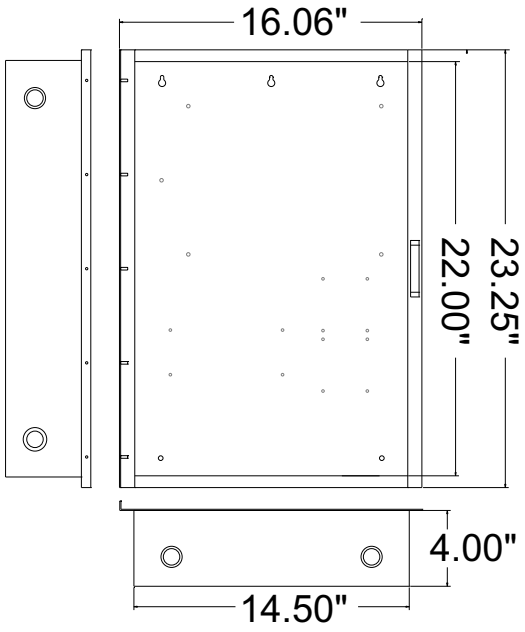

EF2 & EF3 BackBox dimensions

How to Order:

EF3	**Single Loop Addressable FACP Apollo/System Sensor/Evax Protocol w/Cab 115/230VAC, 50/60HZ**
EF1-10C	**10 Zone Conventional FACP w/Cab 115/230VAC, 50/60HZ**
EF1-10C-EXP	**10 Class B or 5 Class A Conventional Zone Expander w/Cabinet**
EF1-CM	**10 Class B or 5 Class A Conventional Zone - Board only**
F1-EXP	**Expander Cabinet only (backbox & door)**
EF1-ANN	**Remote LCD/LED Annunciator in Cabinet**
EF1-RAN	**Remote LCD/LED Annunciator Board only**
EF1-A-CAB	**Remote Annunciator Cabinet only**
EF1-NTWK	**Network card**
EF1-RC	**2 programmable relay board - Form C**
EF1-RCCBL	**Ribbon cable for the EF1-RC**
EF1-KIT	**Mounting hardware kit for LC/CM boards**

Engineering Specification

The Fire Alarm Control Panel (FACP) shall be Addressable loop and Conventional Zone capable. Standard FACP shall be a single loop addressable circuit. The system shall be multiple addressable protocol capable and allow any combination of addressable Apollo devices, addressable Evax devices, and addressable System Sensor devices on the loop simultaneously for a total of 254 mixed protocol devices. FACP shall contain an integral UDACT. FACP shall be capable adding up to 60 conventional zones. The main FACP shall communicate with addressable devices in both digital and analog communications formats. Panels without dual format 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 proprietary 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 Ah’s of standby batteries without the use of an external power supply. The panel shall contain three (3) on-board Notification Appliance Circuits (NAC’s) that support multiple synchronization protocols or can be programmed as auxiliary power. The panel shall utilize a 8 lines x 20 character Liquid Crystal Display (LCD) with LED backlight and a 1,000-event history log. The panel shall support the interconnection of 254 panels in a single networked system and shall allow any two nodes to be connected using either twisted pair copper or fiber optic cable. Each node pair shall provide for automatic data rate optimization to allow maximum communication speed while minimizing data errors. Panels which do not provide automatic data rate optimization will not be considered equal. The panel shall be an Evax FIRE 1 Series EF3.

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