

FEATURES:

- **Modular Design**
- **Addressable & Conventional inputs**
- **2 Addressable Loops per Panel**
- **Multiple Protocols simultaneously on the same loop**
- **Flash/Non-Flash LED Option**
- **Field Selectable Loop Protocol**
- **Day / Night sensitivity settings**
- **Alarm Verification/Drift Compensation**
- **250 Software Groups**
- **Remote programming option**
- **4 Multifunction NAC's**
- **Notification Device Synchronization**
- **8 Amp Power Supply**
- **Panel to Panel Networking**
 - **Peer to Peer Communication**
 - **Up to 254 Nodes**
 - **Auto Data Rate Optimization**
- **Up to 60 Conventional Zones**
- **15 Remote LCD Annunciators**

DESCRIPTION

The Evax FIRE 1 Series EF2 Fire Alarm Control Panel (FACP) is a completely modular design that can be addressable and/or conventional. The basic FACP Model EF2 comes with 2 addressable Signaling Line Circuits (SLC's) and cannot be expanded with additional SLC's.

Each SLC's 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 or 508 total on the FACP. The SLC can be field wired for Class B (Style 4) or Class A (Style 6 or 7).

Optionally, the EF2 can be configured with up to 6 EF1-CM Conventional Zone cards (externally) providing a total of 30 Class A or 60 Class B IDC's.

Each EF1-CM card provides 5 Class A or 10 Class B IDC's. EF1-CM cards may be mounted internally in the panel or externally in a remote location. External EF1-CM cards can be mounted up to 6,000 feet from the main FACP.

The EF2 provides 250 user programmable software groups which can be associated with multiple input and output devices/circuits.

EF2 Addressable/Conventional Fire Alarm Control Panel



EF2 shown in optional GRAY cabinet



Listed to UL 864 9th Edition

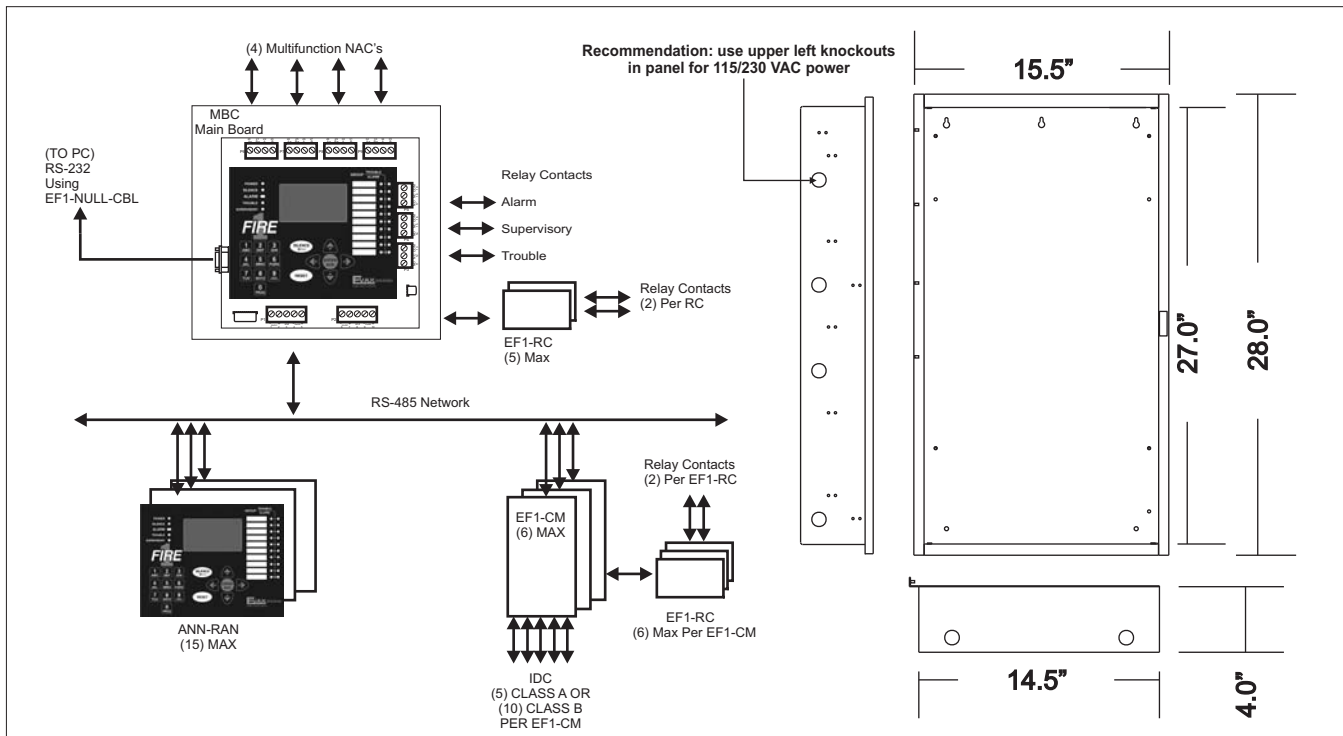
The EF2 FACP has the ability of remotely programming and troubleshooting the panel through the use of an optional modem installed at the FACP.

The EF2 can *auto program* devices on an addressable loop or program conventional zones on the system. Additionally the EF2 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 MBC and to EF1-CM cards. The EF2 FACP also provides alarm, supervisory and trouble contacts. All relay contacts are rated 10A @ 30VDC, 10A @ 240VAC resistive, 3A @ 240VAC inductive.

Adding the EF1-NTWK Network card to the EF2 allows up to 254 FIRE 1 & EF2 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 EF2 FACP supports up to 15 remote connected EF1-ANN LCD annunciators using the internal Rs485 communication buss. This buss also connects to the Universal Digital Alarm Communicator Transmitter model EF-UDACT, City Tie/Reverse Polarity Module model EF1-UCT, & Serial Relay Module model EF1-SRM.



How to Order:

- EF2** **2 Loop Addressable FACP
Apollo/System Sensor Protocol
W/ RED Cab 115/230VAC, 50/60HZ**
- EF-UDACT** **SIA1 Protocol Universal Digital Alarm
Communicator Transmitter**
- EF1-CAB** **FIRE 1&2 Cabinet only
(Backbox & door)(red or gray)**
- 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**
- EF1-EXP** **Expander Cabinet only, accomodates
two boards (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**
- EF2-MBC** **115/230V Common System
components (MCCLC, PDC & Power
Supply)**
- EF1-NTWK** **Network card**
- EF1-RC** **2 programmable relay board - Form C**
- EF1-RCCBL** **Ribbon cable for the EF1-RC**
- EF1-MOD** **Remote Communication Modem**
- EF1-KIT** **Mounting hardware kit for LC/CM
boards**
- G** **Add "G" suffix for GRAY cabinet**

Engineering Specification

The Fire Alarm Control Panel (FACP) shall be Addressable loop and Conventional Zone capable. Standard FACP shall have two (2) loops of addressable circuits. The system shall be multiple addressable protocol capable and allow any combination of addressable Evax, Apollo or System Sensor addressable devices on the loop simultaneously for a total of 254 mixed protocol devices per loop. Up to 60 conventional zones may be added to the system in groups of 10 circuits. Each expander module shall add an additional 10 conventional zones. These expander cards shall be housed in their own cabinets and be capable of being remotely located up to 4,000 feet from the main FACP. 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 and have the option for digital communications. Panel shall charge up to 40 Ah's of standby batteries without the use of an external power supply. The panel shall contain four (4) on-board Notification Appliance Circuits (NAC's) that support multiple synchronization protocols or can be programmed as auxiliary power. The panel shall utilize a 68 x 128 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 EF2.

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.