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DF-51465 • B-200

AFM/AFM-X Series Annunciator Fixed Modules

Section: Annunciators

GENERAL

The **AFM** and **AFM-X Series** Annunciator Fixed Modules are capable of providing up to 56 zones of remote annunciation to the Fire-Lite **Sensiscan 2000**, **MicroScan 9200** and **MicroScan 5210UD** Fire Alarm Control Panels (FACP). Available in non-expandable (AFM Series) and expandable (AFM-X Series) models, the AFMs provide an array of LEDs to indicate zone and system status. Additionally, certain models provide control switches to perform critical system functions such as: **ACKNOWLEDGE**, **SILENCE**, **RESET** and **DRILL** remotely from the host FACP.

FEATURES

- Provides up to 56 zones of **ALARM** and **TROUBLE** annunciation or **ALARM** only.
- Touch-pad control switches available for remote **SILENCE**, **ACKNOWLEDGE**, **DRILL** or **RESET** of MS-9200 and S-2000 host FACP with AFM 16 series models only.
- Remote mounting up to 6,000 feet from host FACP.
- System Trouble and On-Line/Power LED indicators.
- Alarm and Trouble resound with flash of new conditions.
- Internal piezo sounder for Alarm and Trouble conditions with local **ACKNOWLEDGE/SILENCE** switch (programmable).
- Local lamp test provided via **ACK/SIL** switch.
- EIA-485, two-wire interface, for reduced installation cost.
- May be powered by 24 VDC from the host FACP or by remote power supplies (requires filtered, regulated power).
- Efficient, switched power converter reduces current consumption from host FACP.
- Fully supervised, microprocessor-controlled electronics.
- Preprinted slip-in labels reduce installation time.
- Blank slip-in labels allow job customization using a standard typewriter.
- Plug-in terminal blocks for ease of installation and service (expandable "X" versions only).
- Canadian versions available to meet the strict requirements of Canadian Supervisory Service.

AFM versus AFM-X

The **AFM Series** consists of three non-expandable models. The AFM-16AF and AFM-32AF provide only red Alarm annunciation LEDs, 16 and 32 respectively. The AFM-16ATF provides 16 red Alarm and 16 yellow Trouble annunciation LEDs, and control switches to perform critical **ACKNOWLEDGE**, **SILENCE**, **RESET** and **DRILL** system functions.

The **AFM-X Series** consists of two basic controller models (excluding Canadian Supervisory Service versions — see AFM-X Series descriptions on page 3 for detailed information), each capable of supporting expander modules. The AFM-16ATX provides 16 red Alarm and 16 yellow Trouble LEDs, as well as control switches to perform critical system functions such as: **ACKNOWLEDGE**, **SILENCE**, **RESET** and **DRILL**. It also supports up to 3AEM-16ATF expander modules for a maximum of 56 Alarm or 56 Alarm and Trouble LEDs. The AFM-32AX controller provides 32 red Alarm annunciation LEDs and supports one AEM-32AF expander module for maximum annunciation of 56 Alarm LEDs.



LISTED

S2424

(AFM-16ATX(CS4/8/16),
AFM-32AX(CS8/16))



CS635



California
State Fire
Marshal

7120-0075:160

(AFM-16ATF, AFM-32AF)

7120-0075:166

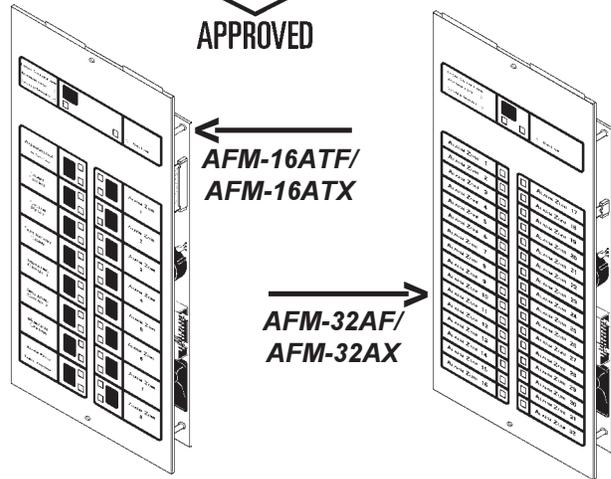
(AFM-16ATX, AFM-32AX)

MEA

16-94-E



APPROVED



0X9A3.AY (MS-9200)

0V7A0.AY (S-2000)

(AFM-16ATF, AFM-32AF)

OPERATION

The non-expandable **AFM Series**, models AFM-16AF, AFM-16ATF and AFM-32AF, provide remote annunciation of fire alarms on any zone. The AFM-16AF should be used on systems requiring 16 zones or less. The AFM-32AF should be used on systems requiring greater than 16 zones, up to a maximum of 32 zones. The AFM-16ATF should be used on systems of 16 zones or less, which require zone trouble indication in addition to zone alarm annunciation.

Use of the AFM-16ATF and AFM-32AF is restricted to ONE annunciator per FACP. However, up to 32 AFM-16AFs may be attached per FACP (sufficient power required) with each annunciator displaying identical information.

The expandable **AFM-X Series** consists of models AFM-16ATX and AFM-32AX. The AFM-16ATX with expanders should be used on systems requiring both alarm and trouble indication for zones greater than 16, up to a maximum of 56. The AFM-32AX with expander should be used in applications requiring alarm indication **only** for greater than 32 zones, up to a maximum of 56. Up to 32 sets of AFM-X Series annunciators with expanders may be attached per FACP (sufficient power required) with each annunciator set displaying identical information.

Fire-Lite® Alarms is a Honeywell company.

This document is not intended to be used for installation purposes. We try to keep our product information up-to-date and accurate. We cannot cover all specific applications or anticipate all requirements. All specifications are subject to change without notice.

For more information, contact Fire-Lite Alarms, One Fire-Lite Place, Northford, Connecticut 06472. Phone: (800) 627-3473, Toll-Free FAX: (877) 699-4105.

ISO 9001
CERTIFIED
ENGINEERING & MANUFACTURING
QUALITY SYSTEMS



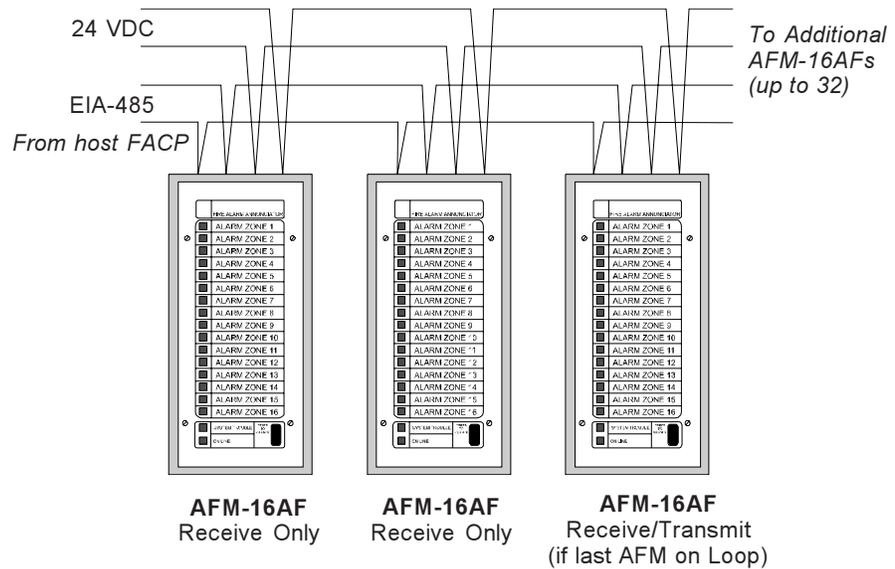
Made in the U.S.A.

THE AFM SERIES

AFM-16AF

For 16-zone-maximum systems requiring multiple annunciators with Alarm only indication.

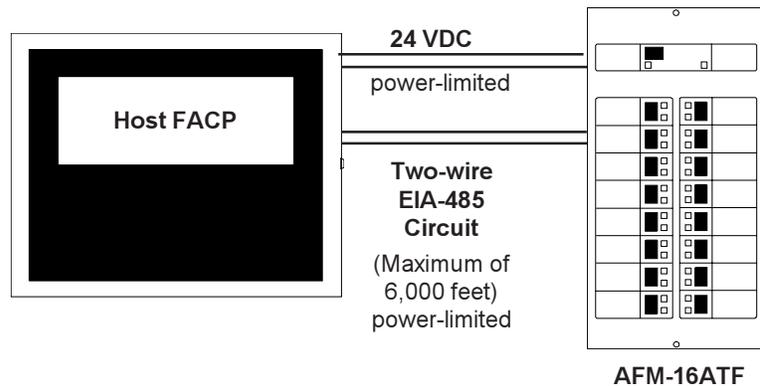
The Annunciator Fixed Module-16AF has 16 red Alarm LEDs. The AFM-16AF does not support expanders, however, up to 32 annunciators may be used on one system by setting all annunciators to Receive Only (jumper selectable), except the last AFM-16AF in line. The local ACKNOWLEDGE/SILENCE switch functions as an annunciator lamp test and silence switch for the integral piezo. LEDs are also included for On-Line/Power and System Trouble. The AFM-16AF can **only** mount to a four-gang electrical box (or 4 single-gang boxes). All AFM-16AF annunciators will display the same information.



AFM-16ATF

For 16-zone-maximum systems requiring a single annunciator with Alarm and Trouble indication.

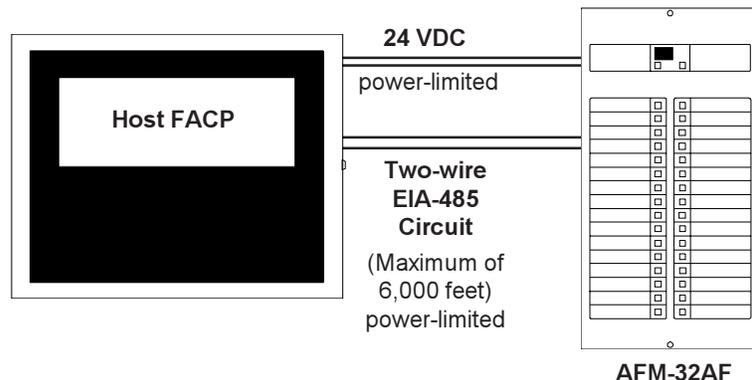
The Annunciator Fixed Module - 16ATF contains 16 red Alarm and 16 yellow Trouble LEDs. The AFM-16ATF does not support expanders and only one may be used per system. The AFM-16ATF also contains control switches to perform critical system functions, such as ACKNOWLEDGE, SILENCE, RESET and DRILL. A local piezo sounder, On-Line/Power LED and System Trouble LED are also included. The AFM-16ATF can be mounted in the following custom backboxes: ABF-1F, ABF-1DF, ABS-1F or ABS-1TF.



AFM-32AF

For 32-zone-maximum systems requiring a single annunciator with Alarm only indication.

The Annunciator Fixed Module - 32AF contains 32 red Alarm LEDs. The AFM-32AF does not support expanders and only **one** may be used per system. The local ACKNOWLEDGE/SILENCE switch functions as an annunciator lamp test and silence switch for the local piezo. LEDs are also included for On-Line/Power and System Trouble. The AFM-32AF can be mounted in the following custom backboxes: ABF-1F, ABF-1DF or ABS-1F.



THE AFM-X SERIES

AFM-16ATX:

For 56-zone-maximum systems requiring single or multiple annunciator(s) with Alarm & Trouble indication.

The Annunciator Fixed Module - 16ATX contains 16 red Alarm and 16 yellow Trouble LEDs, a System Trouble LED, an On-Line/Power LED, a local piezo sounder and control switches for ACKNOWLEDGE, SILENCE, RESET and DRILL. The AFM-16ATX controller supports up to 3 AEM-16ATF expanders.

AFM-16ATXCS4: Same as the AFM-16ATX with four (4) yellow supervisory indications (points 13-16). *Required for Canadian Supervisory Service.*

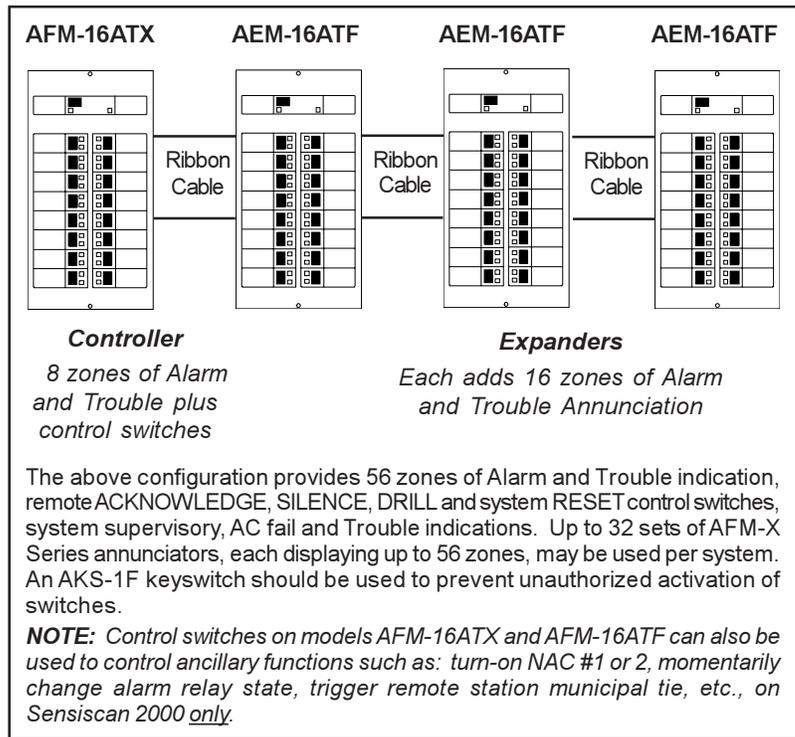
AFM-16ATXCS8: Same as the AFM-16ATX with eight (8) yellow supervisory indications (points 9-16). *Required for Canadian Supervisory Service.*

AFM-16ATXCS16: Same as the AFM-16ATX with sixteen (16) yellow supervisory indications (points 1-16). *Required for Canadian Supervisory Service.*

AEM-16ATF: The Annunciator Expander Module - 16ATF connects to the AFM-16ATX

and adds 16 sets of red Alarm LEDs and yellow Trouble LEDs. Three AEM-16ATFs may be added to an AFM-16ATX. A configuration of one AFM-16ATX controller and 3 AEM-16ATF expanders provides Alarm and Trouble indication for up to 56 zones. **NOTE:** *The AEM-16ATF cannot be used to expand the AFM-32AX.*

ABM-1 (formerly ABM-16ATF): The Annunciator Blank Module is a two-sided dress plate identical in appearance to the front panel of the AFM-16ATX and AEM-16ATF modules on one side. The blank module is used to cover unused module positions in an annunciator backbox.



AFM-32AX:

For 56-zone-maximum systems requiring single or multiple annunciator(s) with Alarm only indication.

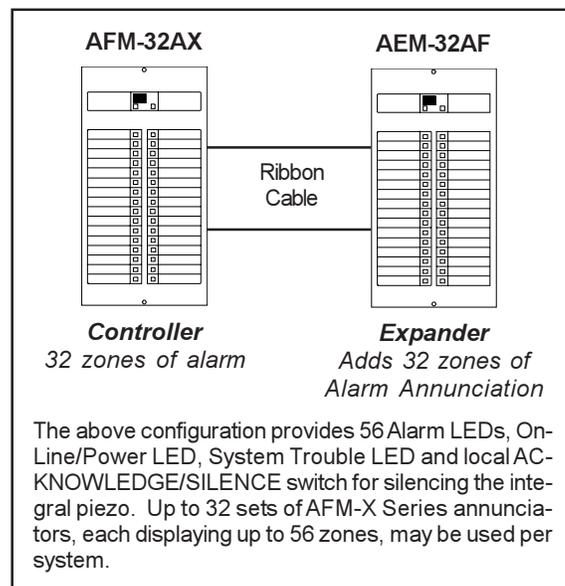
The Annunciator Fixed Module - 32AX contains 32 red Alarm LEDs, a System Trouble LED, an On-Line/Power LED and a local piezo sounder. The local ACKNOWLEDGE/SILENCE switch functions as an annunciator lamp test and silence switch for the integral piezo. The AFM-32AX controller supports one AEM-32AF expander.

AFM-32AXCS8: Same as the AFM-32AX with eight (8) yellow supervisory indications (points 9-16). *Required for Canadian Supervisory Service.*

AFM-32AXCS16: Same as the AFM-32AX with sixteen (16) yellow supervisory indications (points 17-32). *Required for Canadian Supervisory Service.*

AEM-32AF: The Annunciator Expander Module - 32AF connects to the AFM-32AX and adds 32 red Alarm LEDs. One AEM-32AF expander may be added to an AFM-32AX. A configuration of one AFM-32AX controller and one AEM-32AF expander provides alarm indication for up to 56 zones. **NOTE:** *The AEM-32AF cannot be used to expand the AFM-16ATX.*

ABM-1 (formerly ABM-32ATF): The Annunciator Blank Module is a two-sided dress plate identical in appearance to the front panel of the AFM-32AX and AEM-32AF modules on one side. The blank module is used to cover unused module positions in an annunciator backbox.



INSTALLATION

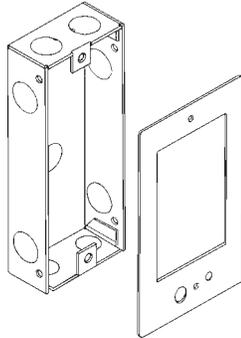
The AFM and AFM-X Series Annunciator Fixed Modules use modular hardware assemblies that allow for custom configuration to fit individual job requirements.

The AFM and AFM-X Series Annunciator Fixed Modules are typically mounted in special ABF or ABS Series backboxes. A control switch key lock (AKS-1F) is available to prevent unauthorized use of control switches.

ABF-1F:

H = 9-15/16" (25.24 cm)
W = 4-5/8" (11.75 cm)
D = 2-1/2" (6.35 cm)

The Annunciator Flush Box provides for the remote mounting of a single annunciator module in a flush-mount enclosure. Knockouts are provided for use with 1/2" (1.27 cm) conduit. The ABF-1F includes a trim plate (H = 11" [27.94 cm], W = 6-1/4" [15.875 cm]), mounting hardware and an adhesive-backed annunciator label for the dress plate.



ABF-2F: (not illustrated)

H = 9-15/16", W = 9-3/16", D = 2-1/2"
(H = 25.24 cm, W = 11.75 cm, D = 6.35 cm)

The Annunciator Flush Box provides for the flush-mounting of one AFM-16ATX/AEM-16ATF combination or AFM-32AX/AEM-32AF combination. Includes a trim plate (H = 11" [27.94 cm], W = 10-5/8" [26.99 cm]) and adhesive-backed annunciator label.

ABF-1DF:

Box: H = 9-15/16" (25.24 cm),
W = 4-5/8" (11.75 cm),
D = 2-1/2" (6.35 cm).
Door: H = 10.713" (27.21 cm),
W = 6" (15.24 cm),
D = 0.75" (1.9 cm).

ABF-2DF: (not illustrated)

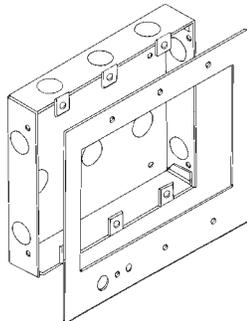
Box: H = 9-15/16" (25.24 cm),
W = 9-3/16" (23.37 cm),
D = 2-1/2" (6.25 cm).
Door: H = 10.713" (27.21 cm),
W = 10.375" (26.35 cm),
D = 0.75" (1.9 cm).

The ABF-1DF and ABF-2DF are semi-flush-mount backboxes for the Fire•Lite AFM Series Annunciators. The ABF-1DF mounts one Annunciator module and the ABF-2DF mounts two modules. They include an attractive smoked glass door with Fire•Lite key lock.

ABF-4F:

H = 9-15/16" (25.24 cm)
W = 17-3/8" (44.13 cm)
D = 2-1/2" (6.35 cm)

The Annunciator Flush Box provides for the remote mounting of one to four AFM-16ATX/AEM-16ATF modules. Knockouts are provided for use with 1/2" (1.27 cm) conduit. The flush-mounted ABF-4F includes a trim plate (Height = 11" [27.94 cm], Width = 19-3/8" [49.21 cm]) and an annunciator label.



ELECTRICAL RATINGS

Input voltage: 24 volts DC.

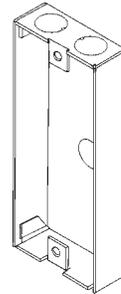
Current draw from 24-volt DC input:

	<u>Standby</u>	<u>Alarm</u>
AFM-16AF	25 mA	65 mA
AFM-16ATF/32AF	40 mA	56 mA
AFM-16ATX/32AX	40 mA	56 mA
AEM-16ATF/32AF	2 mA	18 mA

ABS-1F:

H = 8-1/2", W = 4-1/2", D = 1-3/8"
(H = 21.59 cm, W = 11.43 cm, D = 3.49 cm)

The Annunciator Surface Box provides for the remote mounting of one annunciator module in a surface-mount enclosure. Knockouts are provided for use with 1/2" (1.27 cm) conduit. The annunciator mounts directly to the ABS-1F without a dress plate.

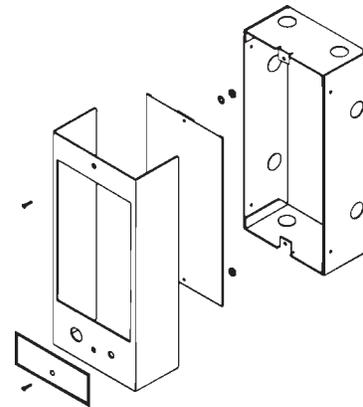


ABS-2F: (not illustrated)

H = 8-1/2", W = 8-15/16", D = 1-3/8"
(H = 21.59 cm, W = 22.7 cm, D = 3.49 cm)

The Annunciator Surface Box provides for the surface mounting of one AFM-16ATX/AEM-16ATF combination or one AFM-32AX/AEM-32AF combination. Knockouts are provided for use with 1/2" (1.27 cm) conduit. The annunciator module mounts directly to the ABS-2F without a dress plate.

NOTE: The ABS-1F and ABS-2F will not support the installation of the AKS-1F Annunciator Key Switch.



ABS-1TF:

H = 9-15/16", W = 4-5/8", D = 2-1/2"
(H = 25.24 cm, W = 11.75 cm, D = 6.35 cm)

The ABS-1TF is an attractive surface mount backbox for mounting one AFM Series Annunciator. Unlike the ABS-1F, the ABS-1TF has an increased depth that allows mounting the AKS-1F Annunciator Key Switch, described below.

AKS-1F:

The Annunciator Key Switch provides access security for the control switches on the AFM-16ATF and AFM-16ATX. Includes a key, mounting hardware and an adhesive-backed Annunciator Label. The AKS-1F can only be employed with a flush mount type backbox or ABS-1TF surface-mount backbox.