

ACS Series Annunciators

ACM/AEM-24AT, ACM/AEM-48A



Annunciators

GENERAL

The ONYX® Series ACS Annunciators provide a modular line of products for annunciation and control of the NOTIFIER ONYX® AFP-3030 Fire Alarm Control Panel and Network Control Annunciator. The ACS line provides arrays of LEDs to indicate point status and, in some versions, switches to control the state of outputs or zone disablement. These ACS units use a serial interface and may be located at distances of up to 1,800 metres from the panel.

FEATURES

- Configurable LED colour ensures suitability for a variety of applications.
- Alarm/Circuit On and Fault LED per-point option, alarm only option or zone disabled option.
- Touch-pad control switch option for remote control of system relays; or silence, reset, and evacuate.
- LEDs may be programmed to display status of indicating circuits or control relays as well as system status conditions such as zone disablement.
- System Fault & On-line/Power LED indicators.
- Alarm and fault resound with flash of new conditions.
- Local sounder for both alarm and fault conditions with silence button (program options).
- May be powered by 24 VDC from the panel or by remote power supplies.
- Slip-in custom labels, lettered with LabelEase program.
- Plug-in terminal blocks for ease of installation and service.

INSTALLATION

The ACS Series annunciators use modular hardware assemblies which allow the custom configuration of the annunciator panel to fit the individual project requirements. Standard backboxes and mounting hardware schemes, including ABF or ABS boxes enclosures, allow the annunciators to be constructed and configured with other system components.

Communication between the ACS Series annunciators and the host Fire Alarm Control Panel is made through an EIA-485 multi-drop loop, eliminating the need for costly wiring schemes. Four wires are required, two for the EIA-485 communications (twisted pair), and two for 24 VDC regulated power.

All field-wiring terminations use removable, compression-type terminal blocks for ease of installation, wiring, and circuit testing.



ACM/AEM-24AT

ACM/AEM-48A

SPECIFICATIONS

Electrical Specifications

Supply Power: 24Vdc nominal (17Vdc to 28Vdc)

Current draw (On-line Flashing, all other LEDs off):

- ACM-24AT/ACM-48A: 0.016 A.
- ACM-24AT/AEM-24AT: 0.002 A.

Current draw (Alarm, all LEDs are assumed to be on):

- ACM-24AT/ACM-48A: 0.070 A.
- ACM-24AT/AEM-24AT: 0.056 A.

Note: This assumes that all LEDs are lit simultaneously. When the alarm system specification permits, calculations can be based on a 10% alarm loading capacity but do not enter less than one.

Temperature and Humidity

This system meets AS requirements for operation at 0 – 49°C and at a relative humidity 93% ± 2%.

AGENCY LISTINGS AND APPROVALS

Compatible with AFP-3030 Fire Alarm Control Panel and NCA-2 Network annunciator

PRODUCT LINE INFORMATION

ACM-24AT: The Annunciator Control Module-24AT contains 24 color-programmable (red/green/yellow) Active and 24 yellow Fault LEDs, 24 momentary touch-pad switches, a System Fault LED, an On-Line/Power LED, and a local piezo sounder with a silence switch for audible indication of alarm and fault conditions.

AEM-24AT: The Annunciator Expander Module-24AT expands the ACM-24AT by 24 system points. The AEM-24AT is identical in size and in frontal appearance to the ACM-24AT. Up to three of these expander modules can be supported by an ACM-24AT, for a maximum of 96 system points. *NOTE: The AEM-24AT cannot be used to expand the ACM-48A.*

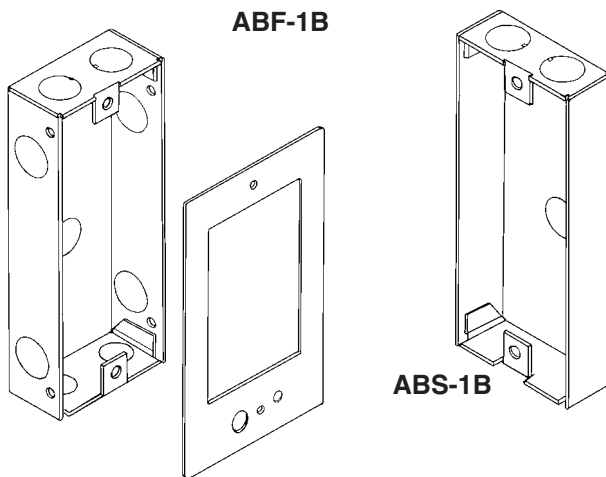
ACM-48A: The Annunciator Control Module-48A contains 48 color-programmable (red/green/yellow) Active LEDs, a System Fault LED, an On-Line/Power LED, and a local piezo sounder with a Silence switch for audible indication of alarm and trouble conditions.

AEM-48A: The Annunciator Expander Module-48A expands the ACM-48A and is identical in frontal appearance to the ACM-48A. One expander module can be supported by an ACM-48A, providing a maximum of 96 points *NOTE: The AEM-48A cannot be used to expand the ACM-24AT*

Related Options

ABS-1B: (see figure) The Annunciator Surface Box-1B provides for the remote mounting of one annunciator module in a surface-mount enclosure. Knockouts are provided for use with 1/2" (12.5mm) conduit. The annunciator mounts directly to the ABS-1B without a dress plate. 216mm high x 115mm wide x 51mm deep.

ABS-1TB: The ABS-1TB is a surface-mount backbox for mounting one ACS Series Annunciator. Unlike the ABS-1B, the ABS-1TB has an increased depth that allows mounting of Key Switch. 252mm high x 117 mm wide x 64mm deep.



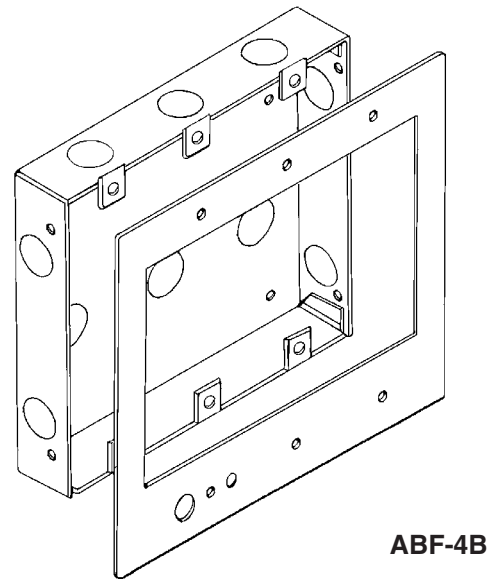
ABF-1B: (see figure) The Annunciator Flush Box-1B provides for the remote mounting of a single annunciator module in a flush-mount enclosure. Knockouts are provided for use with 1/2" (1.27 cm) conduit. The ABF-1B includes a black metal trim plate (279 mm high x 159 mm wide), mounting hardware, and an adhesive-backed annunciator label for the dress plate. 252mm high x 118mm wide x 64mm deep.

ABF-2B: The Annunciator Flush Box-2B (black) provides for the flush mounting of two annunciator modules. Includes a painted black metal trim plate (279mm high x 267mm wide) and adhesive-backed annunciator label. 252mm high x 233mm wide x 952mm deep.

ABF-4B: (see figure) The Annunciator Flush Box-4B provides for the remote mounting of one to four annunciator modules. Knockouts are provided for use with 1/2" (1.27 cm) conduit. The flush-mounted ABF-4B includes a painted black metal trim plate (279mm high x 492 mm) and an annunciator label. 252mm high x 451mm wide x 63mm deep.

ABF-1DB, ABF-2DB, ABS-4D: The ABF-1DB, ABF-2DB and ABS-4D are semi-flush-mount backboxes for ACS Series Annunciators. The ABF-1DB mounts one annunciator module; the ABF-2DB mounts two modules; the ABS-4D mounts up to four modules. Black with an attracted smoked glass door and keylock. The ABS-4D is hinged on the bottom for stability.

- **ABF-1DB:** Box only: 252mm high x 117mm wide x 63mm deep. Door: 279mm high x 152mm wide x 19 mm deep.
- **ABF-2DB:** Box only: 252mm high x 234mm wide x 95mm deep. Door: 279mm high x 263mm wide x 19mm deep.
- **ABS-4D:** Box only: 304mm high x 505mm wide x 89mm deep. Door: 304mm high



ABS-2B: The Annunciator Surface Box-2B (black) provides for the surface mounting of one ACM-24AT/AEM-24AT combination or one ACM-48A/AEM-48A combination. Knockouts are provided for use with 1/2" conduit. The annunciators mount directly to the ABS-2B without a dress plate. 216mm high x 226 mm wide x 51mm deep.

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This document is not intended 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.

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