ACM-30 AIO Annunciator

General

The ACM-30 annunciator provides the NOTIFIER™ INSPIRE™ Series N16 FACP (Fire Alarm Control Panels) or NCD (Network Control Display) with remote, serially-connected annunciators. Arrays of LEDs indicate, locally within the FACP or at a remote location, the status of addressable points within the system. The ACM-30 annunciators are designed to serve as full function annunciators that can both receive status information as well as transmit commands to the control panel. This allows the annunciator to remotely execute functions of the control panel in addition to displaying the status of the system.

Common system functions such as signal silence, system reset, and local annunciation controls (local acknowledge and lamp test) are controlled through touchpoints on the annunciator's keypad.

Each button on the ACM-30 can be programmed to either cooperate with its coordinating LEDs or to operate independently. All buttons and LEDs are customizable. There is no fixed system function on the ACM-30. Using Independent mode, a single ACM-30 could be configured to have 60 point indicators.

Communication between the FACP or NCD and these annunciators is accomplished over a power-limited, two-wire serial interface called the AIO Bus and can be connected to both the main and local bus. Power for the ACM-30 is provided via a separate power-limited power loop from the control panel which is inherently supervised by these annunciators (loss of power results in an annunciator communication failure at the control panel).

The N16 FACP supports a maximum of 80 annunciators. Up to 10 ACM-30 annunciators can be configured as routers with each router supporting up to15 ACM-30 peripheral annunciators.

The capacitive touch keypad of the ACM-30 has 30 buttons with two corresponding LEDs. The LEDs can be programmed for red, green, yellow, white, amber, blue, cyan or purple. The keypad header has two additional LEDs and buttons intended for use as an On-Line/ Power LED, System Trouble LED, Lamp Test button and Silence/ Acknowledge switch. Each Annunciator also contains a local piezo sounder for audible indication of alarm and trouble conditions at each annunciator.

Features

- Touch-pad control switch option for remote control of system relays; or silence, reset, and evacuate
- Color-programmable LEDs
- LEDs may be programmed to display status of indicating circuits or control relays as well as system status conditions
- Alarm/Circuit On and Trouble LED per-point option or more dense Alarm-only option
- Programmable for Independent Mode (each touchpoint and LED can be programmed for different points) or Cooperate Mode (both LEDs perform indication for the point mapped to the touchpoint) of Operation
- Alarm and trouble resound with flash of new conditions
- Local sounder for both alarm and trouble conditions with silence/ acknowledge button (program options)
- System Trouble LED indicator
- On-Line/Power LED indicator
- Speaker control mode for use with the DVC and the N16 Series FACP. Enables the ACM-30 to control operation of groups of multi-channels mapped to groups of multi-speakers



ACM-30 in ABB-1 Enclosure

- Onboard end-of-line resistors can be enabled/disabled by setting a switch
- May be powered by 24 VDC from the panel or by remote power supplies
- Microprocessor-controlled electronics, fully supervised
- Slip-in custom labels within product manual, or using VeriFire® Tools
- Plug-in terminal blocks for ease of installation and service

Panel Compatibility

- N16 Series
- NCD

Installation

Communication between the ACM-30 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.

The ACM-30 can be used for manual selection of speaker and telephone circuits. In this application, they are typically mounted in the main control near the microphone and telephone handset.

For remote annunciation applications, the modules are typically mounted in special ABB boxes.

The ACM-30 annunciator uses modular hardware assemblies which allow the custom configuration of the annunciator panel to fit the individual job requirements.

Standard Backboxes and mounting hardware schemes, including special remote cabinets, allow the annunciators to be constructed and configured with other system components. Security Tamper Switches, STS-1, are available.

Operation

The ACM-30 annunciator provides the N16 system with up to 80 remote serially connected annunciators, each with a capacity of 62 points, for a total capacity of ***4960 points***.

System alarm and/or trouble conditions may be annunciated on a per-point basis, or in a grouped or zone configuration. Control of system operational controls, such as Signal Silence, System Reset, and local annunciation controls (such as Local Acknowledge and Lamp Test) may be accomplished through the module's capacitive touch buttons. Every button and LED on the ACM-30 is completely configurable with VeriFire Tools.

Local or remote power supplies and serial communications allow the ACM-30 to be located virtually anywhere in the protected premises.

Temperature and humidity ranges: This system meets NFPA requirements for operation at 0°C to 49°C (32°F to 120°F); and at a relative humidity (non-condensing) of 85% at 30°C (86°F) per NFPA, and 93% ± 2% at 32°C ± 2°C (89.6°F ± 1.1°F) per ULC. However, the useful life of the system's standby batteries and the electronic components may be adversely affected by extreme temperature ranges and humidity. Therefore, it is recommended that this system and all peripherals be installed in an environment with a nominal room temperature of 15°C to 27°C (60°F to 80°F).

Power requirements: 18-30VDC, 93mA max current NOTE: Input power must be power-limited and non-resettable.

Product Line Information

ACM-30: The Annunciator Control Module-30 contains 62 color-programmable (red, green, yellow, white, amber, blue, cyan or purple) Active, Trouble, and Disabled LEDs, 32 momentary touchpoints, a System Trouble LED (programmable for other functions), an On-Line/Power LED (programmable for other functions), and a local piezo sounder with a silence/acknowledge switch for audible indication of alarm and trouble conditions. Includes instructions.

ABB-1: The Annunciator Backbox-1 (black) provides for the surface mounting or semi-flush mounting of one ACM-30. Knockouts are provided for use with 0.5" (1.27 cm) conduit. The annunciator mounts directly to the dress plate. 10.95" (27.8cm) high x 9.19" (23.34cm) wide x 3.9" (9.9 cm) deep.

ABB-2: The Annunciator Backbox-2 (black) provides for the surface mounting or semi-flush mounting of twp ACM-30 annunciators. Knockouts are provided for use with 0.5" (1.27 cm) conduit. The annunciators mount directly to the dress plate. 10.93" (27.8cm) high x15.79" (40.1cm) wide x 4.61" (11.7cm) deep.

ABF-1DB(C): Annunciator flush box with Door. Requires ACM-1DB-RTO to mount an ACM-30.

DP-T2A: The Dress Panel for one touchscreen display and two ACM-30 annunciators to be mounted in a CAB-5 Series cabinet. Modules mount directly to threaded studs on the DP-T2A.

DP-T2A-CB4: The Dress Panel for one touchscreen display and two ACM-30 annunciators to be mounted in a CAB-4 Series cabinet. Modules mount directly to threaded studs on the DP-T2A-CB4.

DP-4A: The Dress Panel-4 allows one to four ACM-30 annunciators to be mounted in the CAB-5 Series cabinet. Annunciators mount directly to threaded studs on the DP-4A.

DP-4A-CB4: The Annunciator Dress Panel (black) provides for the cabinet mounting of one to four ACM-30 annunciators. The DP-4A-CB4 hinge-mounts to the CAB-4 Series cabinet. Modules mount directly to threaded studs on the DP-4A-CB4.

ABP-1: Annunciator Blank Plate is a flat black dress plate that covers unused module positions in enclosures or dress panels. Studs for a variety of module mounting options are available.

STS-1: The Security Tamper Switch-1 prevents the touchpoints on the router or any peripherals from being active until the door is open. The tamper switch kit includes hardware for mounting to the ABB-1 or ABB-2.

ACM-1DB-RTO: Adapter plate to mount an ACM-30 in ABF-1DB, replacing ACM-24AT or ACM48A.

Agency Listings and Approvals

The file number(s) below reference the specific listings for the modules in this document. In some cases, certain modules or applications may not be listed by certain approval agencies, or listing may be in process. Consult NOTIFIER for latest listing status.

- **UL/ULC Listed:** S635
- **FM Approved:** FM23FPUS0095
- **CSFM:** 7165-0028:0516
- **FDNY:** COA#001761
- **Certified for Seismic applications in accordance with IBC 2024:** VMA-45894-01C
- **OSHPD Approved:** OSP-0072

Standards and Codes

These listings and approvals below apply to the NCD. In some cases, certain modules or applications may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

- **UL 864**, 10th edition (Control Units and Accessories for Fire Alarm Systems)
- **UL 2017** (General-Purpose Signaling Devices and Systems)
- **UL 2610** (Commercial Premises Security Alarm Units and Systems)
- **ULC-S527-19** (Control Units and Accessories for Fire Alarm Systems)
- Should be installed as per NFPA 72 National Fire Protection Association

ISO 9001 CERTIFIED ENGINEERING & MANUFACTURING QUALITY SYSTEMS

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.

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