

# IP Fire Series™ Annunciator Control Module ACM, AXM, LCB, RCB

**Description**

The architecture of an IP Fire Series™ fire control network is comprised of a series of IP-based distributable modules. These modules include alternate configurations of analog loop and NAC circuit modules (ALM-xy), standard display modules (SDM), annunciator control modules (ACM) and other specialized modules noted in other documents.

The Annunciator Control Module (ACM) is used to drive LED or relay points. The ACM communicates with all other modules installed on the network through an Ethernet connection and is addressed through the ACM's unique IP address.

Each ACM board can monitor and control up to 64 configurable points. These points can either be LED or open collector output drivers on the LED Control Board (LCB) or relay points on the Relay Control Board (RCB). Each LCB contains 32 individual LED/open collector output points. Each RCB contains 32 Form A relays rated at 5A each.

The ACM supports LCB and RCB boards in any combination.

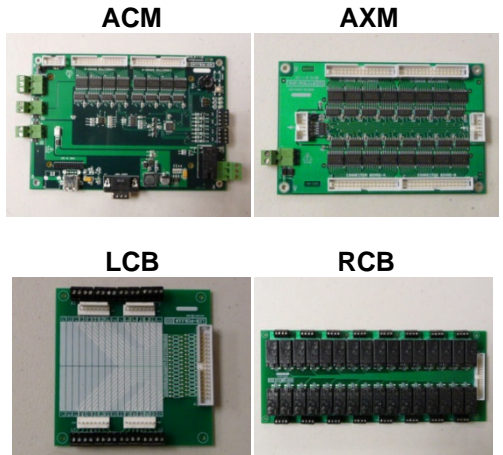
Point capacity is expanded with the Annunciator Expander Module (AXM). Each AXM adds an additional 128 configurable points to the system. Up to 15 AXM's may be daisy chained from the ACM to provide a total of 1984 configurable points per ACM.

Points can be programmed to activate on system wide events such as General Alarm, General Trouble, General Supervisory, Signal Silence and other events.

Also, through the 'Status Specific Operation' programming function, the ACM can fire individual points on any of the connected LCB or RCB boards based on the specific status of any individual input device installed anywhere on the system.

The LED/open collector outputs on the LCB, heavy-duty relays on the RCB, the expandable high-point capacity and the ease of status specific programming of each point make the ACM, AXM, LCB and RCB ideal for simple LED annunciation as well as advanced building control functions such as fan control operations.

Multiple ACM's may be added to the IP Fire Series™ control system up the system maximum of 50.




**Features**

- Each ACM can drive 64 programmable points – expandable to 1984
- Each AXM module expands point capacity in increments of 128 points
- Up to 15 AXM's can be daisy chained off of each ACM
- Each LCB contains 32 programmable LED or open collector output points
- Each RCB contains 32 on-board 5A Form A relays
- Can be distributed alone, with
- Each ACM provides for Remote Acknowledge, Remote Reset, Remote Signal Silence and Lamp Test
- Modules are listed as UL recognized components for ease of integration into third party graphic annunciation or building control applications
- Green/RoHS Compliant

**Listings**

UL File: S24573  
CSFM: Pending  
MEA: Pending

Product	Data Sheet Number	Rev/Revision Date	
IPF Series™ ACM	1060	1.1/ 10/1/2009	

**Engineer Specification**

The contractor shall furnish and install, where indicated on the plans, central or distributed programmable LED drivers, programmable Open Collector output drivers or programmable relay modules for event annunciation and advanced building control functions. The Annunciator Control Module (ACM) shall be field programmable, maintain an integral 3000 event history log, and provide for Remote Acknowledge, Remote Reset, Remote Signal Silence and Lamp Test. Each ACM installed on a system shall be capable of expanding to 1984 points through the Annunciator Expander Module (AXM). Both the ACM and AXM shall be capable of adding LED Control Boards (LCB) or Relay Control Boards (RCB) in any combination. The LCB shall also be capable of driving Open Collector Output points in addition to LED's. The ACM shall be capable of remote installation and shall be capable of being powered from a central 24V system source or with an integral 8A power supply and battery charger. The ACM shall contain an integral USB 2.0 Type A communications port for firmware upload and shall also be capable of being programmed or backed-up through the USB ports of any attached VPM and SDM display module via standard USB Mass Storage Devices. The ACM must be UL listed and UL listed as compatible with the AsBuilt™ IP Fire Series™ network fire controls. The Annunciator Control Module and attaching control boards shall be As Built Engineered Systems part numbers ACM, AXM, LCB and RCB.

**Technical Data**

**ACM**

Quiescent Power Draw: 189 mA  
 Alarm Power Draw: 189 mA  
 Available Points: 64

**AXM**

Quiescent Power Draw: 5 mA  
 Alarm Power Draw: 9 mA  
 Available Points: 128  
 Max Allowed per ACM: 15

**LCB**

Quiescent Power Draw: 0 mA  
 Alarm Power Draw: .05 mA per Active LED  
 Points per LCB: 32  
 Point Driving Capability: LED, Open Collector Output

**RCB**


Quiescent Power Draw: 0 mA  
 Alarm Power Draw: 2.3 mA per Active Relay  
 Points per RCB: 32  
 Relay Data: Form A, 5A

**Ordering Information**

Part Number	Data Sheet	Description
ACM	1060	Annunciator Control Module (up to 64 Configurable Points)
AXM	1060	Annunciator Expander Module (up to 128 Configurable Points)
LCB	1060	LED/Open Collector Output Driver Board (32 Output Points)
RCB	1060	Relay Control Board (32 On-Board Relays)

**Related Modules, Accessory Cards and Cabinets**

VPM/SDM	1010	VPM/SDM Configuration/Display Modules
ALM	1020	ALM Analog Loop/NAC circuit Modules
XP, DISC	2100, 2105	Detection Options for XP and Discovery Product Lines
DXP-xxx	2810-2818	Addressable Device Options
MBLR	1051	Optional Masterbox/Line Reversal card
CCR	1051	Optional Common Control Relay Card
KPD	1053	Optional QWERTY Keypad
UXB	1052	Optional USB Extension Card
UXB-KS	1052	Optional USB Extension Card/Key Activated
RTR, EPROT	1030	Optional Routers and Ethernet Protection Cards
RTR-3	1030	Fiber-Optic Long Haul Routers
Cabinets	1045	IPF-xy, IPF-XL and REM- Cabinet Options
IPF/IPF-XL	1050	IPF-xy, IPF-XL Pre-Configured Systems

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IPF Series™ IPF Series™ ACM	5000	1.1/ 10/1/2009	
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