



Description

Mircom's FA-300 Series fire alarm control panels consist of 6 and 12 zone models which are equipped with a two line by 20 character back-lit LCD display, numerical keypad and an integrated UDACT/Digital Communicator. The FA-300 Series family also includes remote LED and LCD annunciators as well as remote relay modules.

The FA-300 Series panels are ideal for both new and retrofit applications. Designed for small to medium commercial, institutional and industrial occupancies, these panels are powerful enough to meet today's installation demands. The FA-300 Series panels are configurable by the keypad for onsite programming or by a PC for both onsite and remote programming. Easy to install and simple to operate and configure, the FA-300 Series panels enable the installer to configure the system to meet their specific requirements.

The FA-300 Series panels are equipped with a 5 Amp power supply, 4-wire resettable smoke power supply (300mA max.), an interface for a Remote Trouble Indicator (RTI) and an RS-485 interface for remote LCD annunciators, LED annunciators and Remote Smart Relay modules.

All FA-300 Series panels come complete with a red door, black enclosure, durable CAT-30 lock and key and space to mount up to 12 AH batteries. Optional trim rings are available for semi-flush mounting.

Features

- Listed to UL 864, 10th Edition
- Available in 6 and 12 zone models
- Integrated UDACT/Digital Communicator on select models
- Equipped with 2 line by 20 character back-lit LCD display and numerical keypad
- Front panel and PC programmable
- Remote upload/download capabilities
- Base panel is equipped with Class "B" (Style "B") initiating circuits which may be configured as Class "A" (Style "D") using a Class "A" converter module
- Initiating circuits may be configured as Alarm, Verified Alarm, Waterflow Alarm, Sprinkler Alarm, Latching or Non-Latching Supervisory, Monitor and Trouble-Only
- Base panel is equipped with Class "B" (Style "B") indicating circuits which may be configured as Class "A" (Style "Z") using a Class "A" signal converter module
- Audible signals may be configured for Steady, Temporal Code, California Code and March Time
- Indicating Circuits may be configured as Silenceable or Non-Silenceable for both signals and strobes
- Built-in sync protocols for the following strobe manufacturers: Mircom, Amseco, System Sensor, Gentex, Faraday and Wheelock
- Relay contacts for Common Alarm, Auxiliary/Alarm (Disconnectable), Common Supervisory and Common Trouble
- Configurable Signal Silence Inhibit, Auto Signal Silence and One-Man Walk Test
- Subsequent Alarm, Supervisory, and Trouble operation
- RS-485 Interface for Remote LED Annunciators, LCD Annunciators and Remote Smart Relay Modules
- Interface for a Remote Trouble Indicator (RTI)
- Two event history logs comprised of a 200 event alarm log for alarm related events and a 200 event general log for all other events
- 5 Amp Power Supply
- Optional modules for additional internal relay circuits and City Tie/Polarity Reversal
- Optional trim rings for semi-flush mounting



**NYC
Fire Dept**

Features

Initiating Circuits

The FA-300 Series panels are equipped with Class “B” (Style “B”) initiating circuits. The initiating circuits may be configured as Class “A” (Style “D”) using an ICAC-306 Class “A” converter adder module.

Each Initiating circuit may be configured for one of the following modes of operation:

- Alarm (Without smoke detector verification)
- Verified Alarm (With smoke detector verification)
- Waterflow Alarm (Water flow sensors)
- Sprinkler Alarm (Sprinkler flow sensors)
- Latching Supervisory
- Non-Latching Supervisory
- Monitor (non-latching input used mainly for correlating to a relay circuit)
- Trouble-Only (for monitoring a trouble condition from an external device)

i3 Series Protocol

The FA-300 Series panels have the i3 Series protocol built-in. The panels support the two-wire i3 Series smoke detectors (2W-B/2WT-B). These i3 series detectors communicate with the FA-300 to provide the following status information:

Open circuit trouble

This trouble indicates that loop is broken.

Communication trouble

This trouble indicates that there is a fault in the line or the line is too noisy, the panel cannot communicate with the devices.

Dirty device

This trouble indicates that one or more device on the i3 zone is dirty.

Out of sensitivity

This trouble indicates that one or more device on the i3 zone is out of sensitivity range and cannot detect an alarm condition.

Freeze trouble

This trouble indicates that a device on the i3 zone has detected a freeze condition, e.g. the temperature is below 41°F / 5 °C (available only on model 2WT-B).

The built-in protocol removes the need for the 2W-MOD Maintenance Module.

Indicating Circuits

The FA-300 Series panels are equipped with Class “B” (Style “B”) indicating circuits. The indicating circuits may be configured as Class “A” (Style “Z”) using an OCAC-304 or OCAC-302 Class “A” signal converter adder module. The audible signals may be configured for Steady, Temporal Code, California Code and March Time.

Each of the indicating circuits may be configured for one of the following modes of operation:

- Silenceable Signal
- Non-Silenceable Signal
- Silenceable Strobe
- Non-Silenceable Strobe

The FA-300 has built-in sync protocols for the following strobe manufacturers; Mircom, Amseco, System Sensor, Gentex, Faraday and Wheelock.

UDACT/Digital Communicator

The FA-300 Series panels are equipped with a fully integrated UDACT/Digital Communicator which allows for the reporting of events to a monitoring facility. The UDACT/Digital Communicator can be configured for single or dual line operation and uses the Security Industry Association (SIA) and Ademco Contact ID protocols. The UDACT/Digital Communicator is configured via the main display and keypad on the main panel.

In addition to its reporting functions, the integrated UDACT/Digital Communicator can be used to connect to the FA-300 panel from remote computers for uploading and downloading of configuration data. It also allows for the viewing of the event history logs. The FA-300 series panels have two event history logs comprised of a 200 event alarm log for alarm related events and a 200 event general log for all other events.

The integrated UDACT/Digital Communicator can be configured for either DACT or UDACT operation. In DACT mode the Digital Communicator reports common alarm, trouble and supervisory information. In UDACT mode the Digital Communicator reports point specific information.

Specifications

AC Input: 120VAC @ 60Hz / 240VAC @ 50Hz

Standby Power: 24VDC standby batteries

Charging Capability: 4 to 12 AH

Current Consumption:

Model	Standby	Alarm
FA-300-6D(D)	142 mA (112 mA*)	312 mA (282 mA*)
FA-301-12DD	174mA (104 mA*)	444mA (394 mA*)

* Using Active End of Line Resistors (Refer to the installation and operation manual for more information).

Indicating Circuits:

Power limited / 24VDC unfiltered / 1.7A @ 49°C per circuit. Maximum 5 Amps.

Aux supply (non resetable):

Power limited / 22.3VDC regulated / 500mA max

4-wire smoke supply (resetable):

Power limited/22.3VDC regulated / 300mA max

Unfiltered supply (full wave rectified):

Power limited / 24VDC unfiltered / 1.7A max at 49°C

Auxiliary Relays (Common alarm/supv/trb/ and auxiliary second alarm): FormC / 28VDC / 1A max.



FA-300-6DR / FA-300-6DDR Six Zone LCD Display Fire Alarm Control Panel

The FA-300-6DR and FA-300-6DDR are equipped with six Class "B" (Style "B") initiating circuits and two Class "B" (Style "Y") indicating circuits rated @ 1.7 Amps maximum. (Total of 5 Amps) . The FA-300-6DDR is equipped with a built-in UDACT/Digital Communicator. One ICAC-306 Six Initiating Circuit Class "A" Converter Modules may be used for Class "A" (Style "D") wiring of the initiating circuits. One OCAC-302 Two Indicating Circuit Class "A" Converter Module may be used for Class "A" (Style "Z") wiring of the indicating circuits. The cabinet will support up to 12 AH batteries. The panel can be semi-flush mounted with the optional FA-300TRB trim ring.

Dimensions: FA-300-6DR: 20" H x 14.5" W x 4.5" D
 FA-300-6DDR: 20" H x 14.5" W x 4.5" D
 FA-300TRB: 22.5" H x 17" W



FA-301-12DDR Twelve Zone LCD Display Fire Alarm Control Panel with UDACT/Digital Communicator

The FA-301-12DDR is equipped with twelve Class "B" (Style "B") initiating circuits and four Class "B" (Style "Y") indicating circuits @ 1.7 Amps maximum. (Total of 5 Amps). One ICAC-306 Six Initiating Circuit Class A Converter Module may be used for Class "A" (Style "D") wiring of the initiating circuits. One OCAC-304 Four Indicating Circuit Class "A" Converter Module may be used for Class "A" (Style "Z") wiring of the Indicating circuits. The FA-301-12DDR has a built-in UDACT/ Digital Communicator and the cabinet will support up to 12 AH batteries. The panel can be semi-flush mounted with the optional FA-UNIV-TRB trim ring.

Dimensions: FA-301-12DDR: 26" H x 14.5" W x 4.5" D
 FA-UNIV-TRB: 28.5" H x 17" W



BB-1001WP(R)A Outdoor Weather Protected Enclosure

The BB-1001WP(R)A is a complete enclosure that comes with either a RED or WHITE door, a black back-box, two keys and a durable lock at the top of the door. The door comes hinged to the bottom side of the box for added weather protection. The box is capable of handling one RAM-1032TZDS-CC Main Annunciator Chassis which provides up to 32 points of annunciation. RAM-1032TZDS-CC is ordered separately conform with the UL, ULC installation requirements.

Note: there is no need for thermostat or heater. RAM-1032TZDS-CC must be ordered separately to match UL, ULC installation requirements.

Remote Annunciators



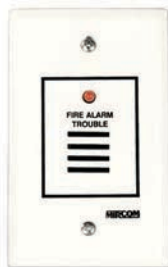
RAM-216R Remote LED Annunciators

The RAM-216R provides 16 points respectively of LED annunciation. This model features bi-coloured LEDs which are configurable for either Alarm (red) or Supervisory (amber). The LED annunciators have indicators for A.C. On, Common Trouble and Signal Silence and control switches for System Reset, Signal Silence, Lamp Test and Buzzer Silence. The RAM-216R is equipped with a keyswitch which allows for enabling and disabling of the Common Control functions. Available in a red finish and mount in a 4-gang electrical box.



SRM-312R Smart Relay Module

The SRM-312 provides twelve configurable relay circuits, rated @ 28 VDC, 1 amp (resistive). Each circuit can be configured as a Normally Open (N.O.) or Normally Closed (N.C.) contact. Each relay is equipped with an LED that is lit when the relay is energized. The relays can be configured as relay per zone (1 to 1), Common on Alarm, Common on Supervisory or programmable for a logical or adjacent zone configuration. An adjacent zone configuration will turn on an adjacent zone when the configured zone is active. A chaining configuration allows for multiple relays to turn on. The SRM-312 is DIP switch configurable and connects to the RS-485 bus. The SRM-312R come complete with a red enclosure and a CAT-30 lock and key.



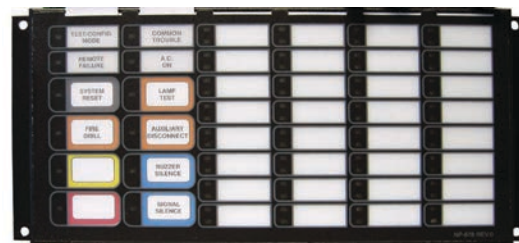
RTI-1 Remote Trouble Indicator

Mircom's Remote Trouble Indicator provides remote annunciation of fire alarm troubles. The RTI-1 mounts onto a standard single gang electrical box.



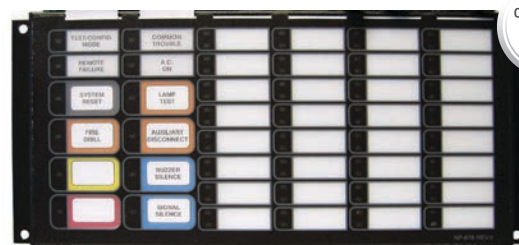
RAM-300LCDR Remote LCD Annunciator

The RAM-300LCDR provides LCD remote annunciation through a 2 line by 20 character LCD display. The RAM-300LCDR provides control switches for System Reset, Signal Silence, Fire Drill and Acknowledge as well as a numeric keypad to access the menu functions. The common control functions can be disabled on a per function basis. The RAM-300LCDR has LED indicators for A.C. On, Alarm, Supervisory, Trouble and CPU Fail. The RAM-300LCDR comes complete with a red enclosure and a CAT-30 Lock and key.



RAM-1032TZDS Main Remote LED Annunciator

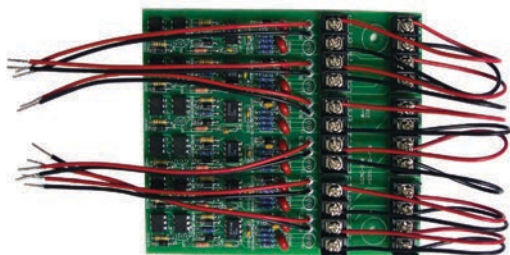
The RAM-1032TZDS Main Remote LED Annunciator provides common annunciator functions and 32 points of LED annunciation. The RAM-1032TZDS has indicators for A.C. On, Common Trouble and Signal Silence and controls for System Reset, Lamp Test, Fire Drill, Buzzer Silence and Signal Silence. The RAM-1032TZDS occupies one display position in the BB-1000 enclosure.



RAM-1032TZDS-CC Conformal Coated Main Remote LED Annunciator

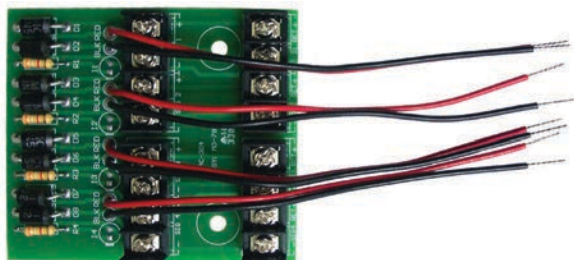
The RAM-1032TZDS-CC Conformal Coated Main Remote LED Annunciator provides common annunciator functions and 32 points of LED annunciation. The RAM-1032TZDS-CC has indicators for A.C. On, Common Trouble and Signal Silence and controls for System Reset, Lamp Test, Fire Drill, Buzzer Silence and Signal Silence. Each display point can be identified by the slide-in label that slides in beside the LED. The RAM-1032TZDS-CC occupies one display position in the BB-1001WP(R)A or BB-1002WP(R)A enclosures.

Adder Modules



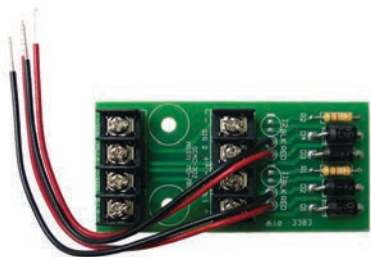
ICAC-306 Six Initiating Circuit Class "A" Converter Module

The ICAC-306 converts six Class "B" (Style "B") initiating circuits on the FA-300 main board to Class "A" (Style "D") circuits. The ICAC-306 is equipped with wire leads to connect to the FA-300 main board. It mounts to the right of the main board Class "B" (Style "B") initiating circuits. Two ICAC-306 modules are required to convert all twelve initiating circuits on an FA-301-12DDR series panel.



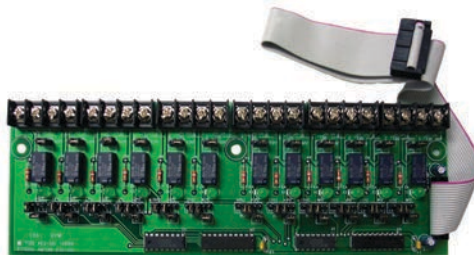
OCAC-304 Four Indicating Circuit Class "A" Converter Module

The OCAC-304 converts four Class "B" (Style "Y") indicating circuits on the FA-300 main board to Class "A" (Style "Z") circuits. The OCAC-304 is equipped with wire leads to connect to the FA-300 main board. It mounts to the right of the main board Class "B" (Style "Y") indicating circuits and is used with the FA-301-12DDR series panels.



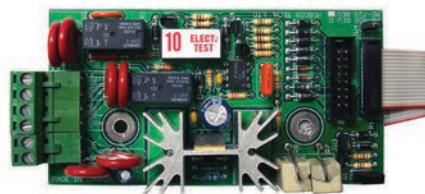
OCAC-302 Two Indicating Circuit Class "A" Converter Module

The OCAC-302 converts two Class "B" (Style "Y") indicating circuits on the FA-300 main board to Class "A" (Style "Z") circuits. The OCAC-302 is equipped with wire leads to connect to the FA-300 main board. It mounts to the right of the main board Class "B" (Style "Y") indicating circuits and is used with the FA-300-6DDR series panels.



RM-306/RM-312 Relay Circuit Adder Modules

The RM-306 provides six configurable relay circuits, rated @ 28 VDC, 1 amp (resistive). The RM-312 provides twelve Form C configurable relay circuits, rated @ 28 VDC, 1 amp (resistive). On both models each circuit can be configured as a Normally Open (N.O.) or Normally Closed (N.C.) contact. Each relay is equipped with an LED that is lit when the relay is energized. The relays can be configured as relay per zone (1 to 1), Common on Alarm, Common on Supervisory or programmable for logical or adjacent zone configuration. An adjacent zone configuration will turn on adjacent zone when configured zone is active. A chaining configuration allows for multiple relays to turn on.



PR-300 Polarity Reversal/City Tie Module

The PR-300 provides outputs for city box and polarity reversal applications. As a city tie module the PR-300 provides an interface between the control panel indicating circuits and a master box. It provides off-premises signal transmission for systems that must comply with NFPA requirements for Auxiliary Protective Systems. As a polarity reversal module the PR-300 provides an interface between the control panel and a reverse polarity receiver. It provides off-premises signal transmission for systems that must comply with NFPA requirements.



ELRX-300 Active End-of-Line Resistors

The ELRX-300 are power saving End-of-Line resistors which eliminates the need for an additional battery cabinet or larger batteries in order to meet the 60 hour standby requirement. (Please refer to Battery Calculation Chart in manual for more details.) The ELRX-300 can also be used when larger batteries than can fit in the cabinet are required. The ELRX-300 are available with or without a mounting plate.

Ordering Information

Model	Description
Control Panels	
FA-300-6DR	Six Zone LCD Display Fire Alarm Control Panel
FA-300-6DDR	Six Zone LCD Display Fire Alarm Control Panel with built-in UDACT/Digital Communicator
FA-301-12DDR	Twelve Zone LCD Display Fire Alarm Control Panel with built-in UDACT/Digital Communicator
Remote Annunciators and modules	
RAM-300LCDR	Remote LCD Annunciator (Red enclosure)
RAM-300LCDW	Remote LCD Annunciator (White enclosure)
RAM-216R	Sixteen zone Remote LED Annunciator
RAM-1032TZDS	32 zone Remote LED Annunciator with individual Trouble LEDs
RAM-1032TZDS-CC	Conformal Coated 32 Point Remote Main Annunciator with 32 Trouble and Alarm LEDs
SRM-312R	Remote Relay Module with red enclosure
RTI-1	Remote Trouble Indicator
BB-1001D	White Semi-Flush Enclosure for RAM-1032TZDS
BB-1001DR	Red Semi-Flush Enclosure for RAM-1032TZDS
BB-1001DS	Stainless Steel Semi-Flush Enclosure for RAM-1032TZDS
BB-1001DB	Black Semi-Flush Enclosure for RAM-1032TZDS
BB-1001WPA	White Semi-Flush Weather Protected Enclosure for RAM-1032TZDS-CC
BB-1001WPRA	Red Semi-Flush Weather Protected Enclosure for RAM-1032TZDS-CC
Adder Modules	
ICAC-306	Six Initiating Circuit Class "A" Converter Module
OCAC-304	Four Indicating Circuit Class "A" Converter Module
OCAC-302	Two Indicating Circuit Class "A" Converter Module
RM-306	Six Relay Circuit Adder Module
RM-312	Twelve Relay Circuit Adder Module
PR-300	Polarity Reversal/City Tie Module
ELRX-300	Active End-of-Line Resistor
ELRX-300R	Active End-of-Line Resistor with red mounting plate
Accessories	
FA-300TRB	Black Semi-Flush Trim Ring for FA-300-6 enclosures
FA-UNIV-TRB	Black Universal Semi-Flush Trim Ring for FA-301-12 enclosures
UIMA4	Universal Programming Tool



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