

# FIRE ALARM CONTROL PANELS

# FA-1000 SERIES



# **Description**

Mircom's FA-1000 Series Microprocessor Based Fire Alarm Control Panels are Multi-Zone units designed for maximum flexibility and easy installation and operation. Fully configurable from the front panel using push buttons and DIP switches, the FA-1000 Series enables the user to configure the system to meet their specific requirements. With a large capacity of supervised Class A (Style D) or Class B (Style B) Initiating Circuits and supervised Class A (Style Z) or Class B (Style Y) Indicating Circuits, the FA-1000 Series is designed to meet virtually all applications.

The FA-1000 Series consists of a Main Fire Alarm Chassis which houses and controls all other modules. Additional modules may be installed to configure the system to meet any requirements that the user may have. The FA-1000 Series allows for additional Indicating Circuit, Initiating Circuit and Relay modules to be added to the system. In addition it allows for optional modules such as the UDACT-300A Digital Communicator and the PR-300 Polarity Reversal / City Tie Module.

Equipped with Configuration DIP Switches on the Main Display Module the FA-1000 Series Fire Alarm Control Panels are configured through a combination of DIP switch and button settings. Through this configuration method the user can define the system as a Single Stage or Two Stage operation as well as perform various functions such as a One Man Walk Test.

#### **Features**

- Listed to UL 864. 9th edition
- Large system capacity
- Modular design
- Each Indicating Circuit can be configured as Silenceable or Non-Silenceable
- Audibles may be configured as Steady, Temporal Code, California Code or March Time
- Each Initiating Circuit can be configured as Alarm, Supervisory, Waterflow or Trouble
- Two LEDs per Initiating circuit; one for Trouble and one for Status
- Initiating and Indicating Circuits may be individually disconnected by a DIP switch
- Configurable Signal Silence Inhibit, Auto Signal Silence, Two-Stage Operation and One Man Walk Test
- Subsequent Alarm, Supervisory and Trouble operation
- Two outputs for 4 wire resettable smoke power supply (200 mA Max. each)
- Auxiliary relay contacts for Common Alarm and Common Supervisory as well as a Common Trouble Relay (Each relay contact Form C, 28 VDC @ 1 Amp (resistive))
- RS-485 Interface for RA-1000 Remote Multiplex Annunciators
- Interface for Remote Trouble Indicator
- Easy configuration via push buttons and DIP switches on the front panel
- Fully site or field programmable Indicating Circuits and Auxiliary Relays
- **Extensive Transient Protection**
- Slide-in labels for zone identification
- 6 Amp or 12 Amp power supplies available
- Removable door for easy installation and servicina
- Removable terminal blocks for easy wiring and servicing

# **Optional Modules**

- UDACT-300A Digital Communicator Module
- Polarity Reversal and City Tie Module
- Two sizes of Surface mounted cabinets
- Semi-Flush mounting available with use of optional trim rings



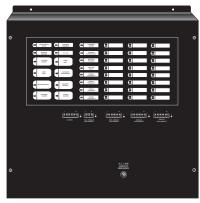






CATALOG NUMBER

# **System Components**



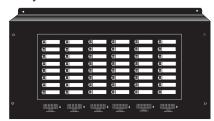
#### MCC-1024-6A

Main Chassis comes complete with 8 Class B (Style B) or 4 Class A (Style D) Initiating Circuits, 4 Class A/B (Style Z/Y) Indicating circuits, a common control and zone identification display board for up to 24 points and a 6 Amp Power Supply which charges 10-24 AH batteries. It is expandable with up to two adder modules of any type plus one of a UDACT-300A Digital Communicator or PR-300 Polarity Reversal/City Tie Module.



## MCC-1024-12A

Main Chassis comes complete with 8 Class B (Style B) or 4 Class A (Style D) Initiating Circuits, 4 Class A/B (Style Z/Y) Indicating circuits, a common control and zone identification display board for up to 24 points and a 12 Amp Power Supply which charges 17-40 AH batteries. It is expandable with up to two adder modules of any type plus one of a UDACT-300A Digital Communicator or PR-300 Polarity Reversal/City Tie Module.



## **ECH-1048**

Expander Chassis provides space for up to six adder modules of any type. The chassis comes with expander cables to connect to the main chassis. Used only in the BB-1072 cabinet.

## **DM-1008A**

8 Initiating Zone Module provides 8 Class B (Style B) or 4 Class A (Style D) Initiating Circuits configurable to Alarm, Supervisory, Waterflow or Trouble zones.

#### **SGM-1004A**

4 Indicating Zone Module provides 4 Class A/B (Style Z/Y) Indicating Circuits configurable as Silenceable or Non-Silenceable. Each Indicating Circuit is rated at 1.7 Amps. Each of the indicating circuits have individual circuit signal silence inputs which are jumper selectable.

#### RM-1008A

8 Relay Circuit Module provides the FA-1000 Series system with 8 individual configurable relays per module. Each relay provides one Form C contact rated at 28 VDC @ 1 Amp (resistive load).

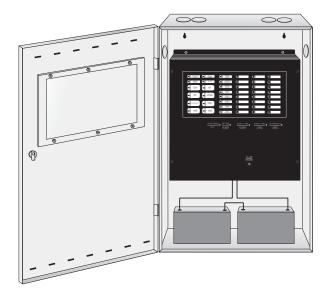
## **PR-300**

Polarity Reversal & City Tie Module provides the system with a supervised City Tie (24 VDC/200 mA max.) and Polarity Reversal connection (24 VDC (open circuit), 8 mA max. (shorted)).

#### **UDACT-300A**

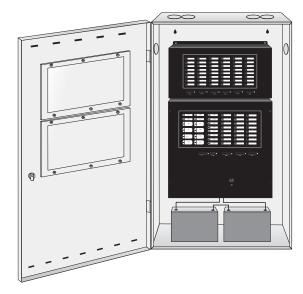
Digital Alarm Communicator Transmitter/Dialer Module allows the FA-1000 Series to use a phone line to call a Central Station and report an Alarm, Trouble or Supervisory condition per zone. It uses the Ademco Contact ID and SIA-DCS protocols.





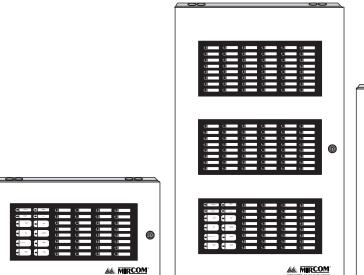
# **BB-1024 Enclosure**

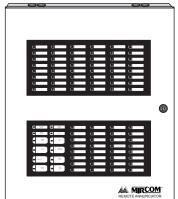
This enclosure is capable of handling one MCC-1024-6A or MCC-1024-12A Main Chassis and up to 17 AH Batteries. The FA-UNIV-TRB Semi-Flush Trim Ring is required for semi-flush mounting. The cabinet features the universal CAT-30 lock and a removable door for easy installation and servicing. The cabinet is available in a beige colour for the Canadian market and a red exterior (BB-1024R) for the U.S. and International markets.



#### **BB-1072 Enclosure**

This enclosure is capable of handling one MCC-1024-6A or MCC-1024-12A Main Chassis and one ECH-1048 Expander Chassis as well as up to 40 AH Batteries. The FA-1072TR Semi-Flush Trim Ring is required for semi-flush mounting. The cabinet features the universal CAT-30 lock and a removable door for easy installation and servicing. The cabinet is available in a beige exterior.





# **RA-1000 Series Remote Multiplex Annunciators**

The RA-1000 Series Remote Multiplex Annunciators have been designed to compliment the FA-1000 Series Fire Alarm Control Panels. Comprised of five chassis models, the RA-1000 Annunciators provide a large capacity of annunciation (up to 224 display points). The RA-1000 Series Remote Multiplex Annunciators consist of sealed membrane-like buttons and LED indicators which are automatically configured to match the FA-1000 Series Fire Alarm Control Panel configuration.

The RA-1000 Series come standard with Bi-Coloured LEDs to annunciate Alarm or Supervisory points. Each display point comes with slide-in labels for point identification. Five annunciator enclosure backboxes are available. The enclosures are available in a beige colour for the Canadian market and a red exterior for the U.S. and International markets. See Catalogue Sheet number CAT-5505 for more information.



## **Specifications**

#### **Electrical Requirements** MCC-1024-6A

Primary Input Power: 120 volts, 60 Hz, 2 Amps maximum Indicating Current: 24VDC unfiltered, 5 Amps maximum

Standby Power: 24VDC Standby Batteries Charging Capability: 10-24 AH batteries

#### MCC-1024-12A

Primary Input Power: 120 volts, 60 Hz, 4 Amps maximum Indicating Current: 24VDC unfiltered, 10 Amps maximum

Standby Power: 24VDC Standby Batteries Charging Capability: 17-40 AH batteries

#### **Enclosures**

BB-1024 Backbox: 26"H x 14.5"W x 4.5"D BB-1072 Backbox: 33"H x 22.25"W x 7.5"D

#### Remote Annunciator Enclosures

BB-1001 Enclosure: 9"H x 12.75"W x 1.2"D BB-1002 Enclosure: 18"H x 12.75"W x 1.2"D BB-1003 Enclosure: 26.4"H x 12.75"W x 1.2"D BB-1008 Enclosure: 33"H x 22.5"W x 1.25"D BB-1012 Enclosure: 45"H x 22.5"W x 1.25"D

Ordering Information	
Model	Description
Chassis	
MCC-1024-6A	Main Chassis c/w 8 Class B (Style B) or 4 Class A (Style D) Initiating Circuits, 4 Class A/B (Style Z/Y) Indicating circuits, a common control and an identification display board for up to 24 points and a 6 Amp Power Supply (Expandable with up to two adder modules of any type plus one of a UDACT-300A Digital Communicator or PR-300 Polarity Reversal/City Tie Module)
MCC-1024-12A	Main Chassis c/w 8 Class B (Style B) or 4 Class A (Style D) Initiating Circuits, 4 Class A/B (Style Z/Y) Indicating circuits, a common control and an identification display board for up to 24 points and a 12 Amp Power Supply (Expandable with up to two adder modules of any type plus one of a UDACT-300A Digital Communicator or PR-300 Polarity Reversal/City Tie Module)
ECH-1048	Expander Chassis c/w space to add up to 6 Adder Modules
RTI-1	Remote Trouble Indicator
Adder Modules	

DM-1008A Eight Class B (Style B) or 4 Class A (Style D) Initiating Circuit Module

SGM-1004A Four Class A/B (Style Z/Y) Indicating Circuit Module (Rated at 1.7 Amps per circuit)

Eight Relay Circuit Module c/w eight Form C relays (Rated for 28 VDC @ 1 Amp. max. per relay) RM-1008A

**Auxiliary Modules** 

UDACT-300A Digital Alarm Communication Transmitter/Dialer Module

PR-300 Polarity Reversal and City Tie Module

**Enclosures** 

Backbox enclosure c/w keylock door. Houses one MCC-1024-6A Main Chassis or MCC-1024-12A Main Chassis RR-1024 BB-1072 Backbox enclosure c/w keylock door. Houses one MCC-1024-6A Main Chassis or MCC-1024-12A Main Chassis

and one ECH-1048 Expander Chassis

(Add suffix 'R' for U.S. and International enclosure.)

Flush Trim Rings

Black Semi-Flush Trim Ring for BB-1024 Enclosure **FA-UNIV-TRB** FA-1072TR Black Semi-Flush Trim Ring for BB-1072 Enclosure

**Remote Annunciators** 

RAM-1032 Main Annunciator Chassis c/w Common Control Features, Indicators and 32 Bi-Coloured LEDs

Main Annunciator Chassis c/w Common Control Features, Indicators and 32 Bi-Coloured LEDs & 32 Trouble LEDs RAM-1032TZ

RAM-1016 Main Annunciator Chassis c/w Common Control Features, Indicators and 16 Bi-Coloured LEDs

RAX-1048 Adder Annunciator Chassis c/w 48 Bi-Coloured LEDs RAX-1048TZ Adder Annunciator Chassis c/w 48 Bi-Coloured LEDs and 48 Trouble LEDs

BB-1001 Annunciator backbox with keylock door (Houses 1 module) BB-1002 Annunciator backbox with keylock door (Houses 2modules) BB-1003 Annunciator backbox with keylock door (Houses 3 modules) Annunciator backbox with keylock door (Houses 8modules) Annunciator backbox with keylock door (Houses 12 modules)

Note: For U.S. and International enclosure add suffix 'R' (Red Exterior)

For Stainless Steel enclosure add suffix 'S'

**Batteries** 

BA-110 12 Volt, 10 Amp/Hr. Battery - 2 pcs required per panel 12 Volt, 17 Amp/Hr. Battery - 2 pcs required per panel 12 Volt, 17 Amp/Hr. Battery - 2 pcs required per panel 12 Volt, 24 Amp/Hr. Battery - 2 pcs required per panel BA-117 BA-124 12 Volt, 40 Amp/Hr. Battery - 2 pcs required per panel BA-140

#### NOT TO BE USED FOR INSTALLATION PURPOSES.



25 Interchange Way Vaughan, Ontario L4K 5W3 Telephone: (905) 660-4655 Fax: (905) 660-4113

U.S.A.

4575 Witmer Industrial Estates Niagara Falls, NY 14305 Toll Free: (888) 660-4655 Fax Toll Free: (888) 660-4113

ISO 9001:2000 REGISTERED

Distributed by

CAT. 5620