FIRE ALARM SYSTEM SERIES 1000

Description

The Series 1000 Microprocessor Based Fire Alarm Control Panels are Multi-Zone units designed for maximum flexibility combined with easy installation and operation. Fully configurable from the front panel using push buttons and DIP switches, the Series 1000 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) Notification Circuits, the Series 1000 is designed to meet virtually all applications. The Series 1000 consists of a Main Fire Alarm Chassis that houses and controls any required expansion modules. Additional Notification and Initiating Circuits may be added as needed to handle nearly any application for a conventional fire alarm system. Relay modules may be configured as required for auxiliary controls or for connection to an external dialer or radio – if the internal dialer module is not desired. Panel programming is accomplished via DIP switches located on the panel – no external programmer is required. 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.

Standard Features

- Large system capacity & modular design
- Four Class A/B (Style Z/Y) Indicating Circuits rated at 1.7 Amps each
- Each Notification Circuit can be configured as Silenceable or Non-Silenceable
- Audible circuits 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 Notification Circuits may be individually disconnected by a slide 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 programmable Notification 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 servicing
- Removable terminal blocks for easy wiring and servicing

Optional Modules

- UDACT-100 Universal Digital Communicator
- DM-1008 8-zone Initiating Circuit Module
- SGM-1004 4-circuit Notification Circuit Module
- RM-1008 8-relay Auxiliary Relay Module
- ECH-1048 Expander Chassis – holds an additional 24 circuits inside large cabinet.
- Two sizes of Surface mounted cabinets
- Semi-Flush mounting available with use of optional trim rings

System Components

MCC-1024-6

Main Chassis

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) Notification Circuits, 3 Relays, 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. Disconnect switches and LEDs are provided for each point. It is expandable with up to two adder modules of any type plus an UDACT-100 Universal Digital Communicator.

MCC-1024-12

Main Chassis

Same as MCC-1024-6, but with a larger power supply. Power supply provides 12 Amps, with a 17-40 AH battery charger.

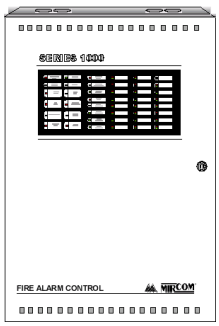
ECH-1048

Expander Chassis

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. Requires use of the BB-1072 cabinet.

BB-1024

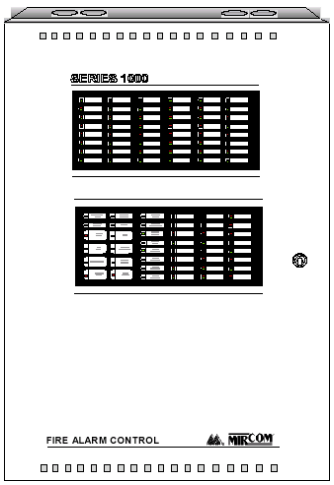
Standard Enclosure



Standard enclosure for housing MCC-1024 series chassis. Accommodates battery sizes up to 17 amps. 14” x 24” x 4”.

BB-1024

Expanded Enclosure



Expanded enclosure for housing MCC-1024 series chassis with ECH-1048 expander. 22” x 33” x 7”.

RM-1008A

Relay Module

Relay module provides 8 individually programmable relays. Each relay provides one Form C contact rated at 28 VDC @ 1 Amp (resistive load).

DM-1008A

Initiating Circuit Module

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

SGM-1004A

Notification Circuit Module

Notification Circuit Module provides 4 Class A/B (Style Z/Y) Notification Circuits configurable as Silenceable or Non-Silenceable. Each Notification Circuit is rated at 1.7 Amps.

UDACT-100

Universal Digital Alarm Communicator

Digital Alarm Communicator Transmitter Module (dialer) allows the Series 1000 to use a phone line to call a Central Station and report an Alarm, Trouble, Waterflow, or Supervisory condition per zone. It utilizes either the Ademco Contact ID or SIA-DCS protocols.

Technical Specifications

Base panel current draw (standby / alarm)	0.200 amps / 0.350 amps
Base number of initiation circuits	Eight (8) Style B or D circuits
Base number of notification circuits	Four (4) Style Y or Z circuits
Maximum current draw per notification circuit	1.7 amps
NAC Voltage	24 VDC
Maximum battery size for 6 or 12 amp power supply	24 or 40 amp/hours
RM-1008A current draw (standby / alarm)	0.025 amps / 0.150 amps
DM-1008A current draw (standby / alarm)	0.080 amps / 0.100 amps
SGM-1004A current draw (standby / alarm)	0.035 amps / 0.150 amps
ECH-1048 current draw (standby / alarm)	0.020 amps / 0.020 amps
UDACT-100 current draw (standby / alarm)	0.120 amps / 0.300 amps

Applicable standards: NFPA-70, NFPA-72, UL-864