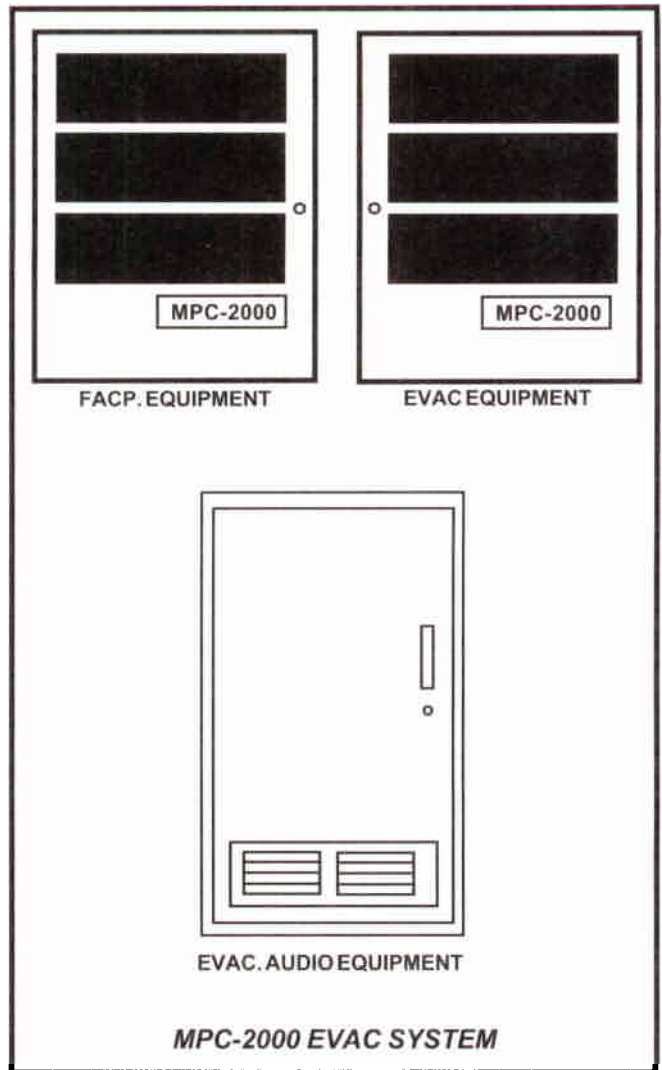


FIRE ALARM CONTROL UNITS MPC-2000 EVAC

FEATURES

- UL listed, file #S405., power limited
- CSFM Listed # 7170-0065:127
- FM Listed # OV7A2.AY
- Configurable for NFPA-71, 72, systems
- Choice of slow whoop or temporal Evac tones
- Optional digital voice message repeater unit
- Microphone for system evacuation
- Expandable to 1,000 watts of audio power
- Expandable to 36 fireman's telephone circuits
- Easy to track single channel output format
- Low voltage 25 V speaker circuits
- UL Listed for NFPA-72E testing and drift compensation of addressable/analog smoke detectors
- Expandable to 104 input zones and 96 output circuits
- Expandable to 1584 analog/addressable points
- Expandable up to 30 Amps. of combined regulated and unregulated 24 VDC system & signal power
- Programmable from lap-top computer or panel keypad
- Manual, automatic, waterflow and supervisory device monitoring capabilities
- Alarm verification, 1 person quick test and drill / recall programming format
- Extensive built-in transient protection
- CRT compatible
- Event hard copy record compatible
- IBEW / USA Quality crafted



GENERAL

The MPC-2000 Evac System utilizes a group of select modules with proven microprocessor technology to construct a versatile audio evacuation system. With the capability of 1584 addressable points, 104 conventional / addressable zones, 30 max. amps of system power and 1000 max. watts of audio power, the MPC-2000 EVAC System can be configured to meet virtually any application.

DESCRIPTION

The MPC-2000 Evac System basically consists of a complete conventional and/or analog/addressable MPC-2000 system control unit along with the appropriate required and desired optional Evac modules and cabinetry. Since the entire package is completely integrated all MPC-2000 software, modules and features are accessible and retained. The audio evacuation signals and power are merely sourced from the Evac section modules which allows for fully programmable and supervised integration with initiation, signalling and auxiliary system functions.

FARADAY MPC-2000 AUDIO EVACUATION FIRE ALARM SYSTEM CONTROL UNIT

EVAC MODULES

EI-1 Evac Interface Module:

Provides the interface between the MPC-2000 programming, alarm and trouble signals with the EVAC modules.

Function switches provided: ALL CALL

Module indications provided: Red ALL CALL operated, amber EVAC trouble LEDs

Current draw: Alarm = 0.100 Amp
Standby = 0.020 Amp

Space required: (1) Module space

MC-1 Microphone and preamplifier module:

Provides the on site voice communication capability for Fire Fighting personnel in an MPC-2000 Evac system. Operations of the push to talk switch (mic key) will automatically interrupt the system's alarm tone and activate the microphone thus allowing live voice communications (one-way paging) over all active system speaker devices. Releasing the push to talk switch will automatically deactivate the microphone and restore the alarm tone to all active system speaker devices. In applications utilizing the prerecorded digital message repeater unit the microphone will also automatically over-ride it as described above.

Function switches provided: Push to Talk

Module indications provide: Amber microphone trouble LED

Current draw: Alarm = 0.030 Amp
Standby = 0.030 Amp

Space required: 4 Transformer spaces

TT-1 Temporal Tone Generator:

Provides the MPC-2000 Evac system with a temporal tone pattern to activated speaker devices during an alarm condition. The module also provides a back up tone generator and a standby tone use for supervision of the system audio amplifiers. The module has built-in priority/default circuitry for proper page over message over tone operations.

Function switches provided: Tone silence

Module indicators: Amber Tone off LED

Current draw: Alarm = 0.055 Amp
Standby = 0.055 Amp

Space required: (14) Module spaces

SW-1 Slow-Whoop Tone Generator:

Provides the MPC-2000 EVAC system with a slow whoop tone to activated speaker devices during an alarm condition. The module also provides a back up tone generator and a standby tone use for supervision of the system audio amplifiers. The module has built-in priority/default circuitry for proper page over message over tone operations.

Function switches provided: Tone silence

Module indicators: Amber Tone-off LED

Current draw: Alarm = 0.055 Amp
Standby = 0.055 Amp

Space required: (14) Module spaces

AS-1 Amplifier Supervisory Module:

Provides the circuitry required to supervise the outputs of up to 4 active or 3 active and 1 backup audio power amplifiers in an MPC-2000 Evac control panel. The module provides for automatic transfer to a secondary backup amplifier should one of the primary active amplifiers fail during normal standby or alarm conditions.

Function switches: none

Module indicators: 4 Board mounted amber amplifier trouble LEDs.

Current draw: Alarm = 0.120 Amp
Standby = 0.105 Amp

Space required: None (include in tone generator requirements)

NOTE: All amplifiers connected to the AS-1 module, including the backup amplifier, should be of the same wattage output rating.

DM-1A/B/C Digital Voice Message Repeater Module:

Provides access to the MPC-2000 Evac system for the playing of a prerecorded voice evacuation message over activated speaker devices during an alarm condition. The DM-1's output format is automatically set for a continuous cycle of system tone followed by message followed by system tone repeated until silenced or reset. Any live microphone telephone patch will automatically over-ride the prerecorded message or system tone transmissions. In the case of a DM-1 failure the system will automatically revert to the system tone and/or live output format.

Function switches: Message Silence

Module indicators: Amber Message Silenced LED

Current draw: Alarm = 0.240 Amp
Standby = 0.160 Amp

Space requirements: (5) module spaces

**FP-1
Master Firefighter's Telephone Module:**

Provides the master phone unit and includes 4 phone zone circuits. To expand the system (1) additional FP-2 Mother Board Module can be added. The FP-2 Module will accept up to (8) PE-1 (4) phone zone circuit extender banks. The FP-1, FP-2 and PE-1 modules provide a means of direct two way communications from remote telephones and the fire alarm control panel. A standard patch feature also allows one way communications from selected phones over active system speaker circuits. All telephone circuits will be supervised and selectable from the fire alarm control panel.

Function switches provided: Intercom, Patch, Ring.

Module indicators: Green Power, (4) Amber circuit selected, LEDs

Current draw: Alarm = 0.050 Amp per 4 circuits.
Standby = 0.050 Amp per 4 circuits.

PE-1 Current draw: Alarm = 0.006 Amp
Standby = 0.006 Amp

Space required: FP-1 (0) Included in MC-1
FP-2 (9) module spaces
PE-1 (0) module spaces

**PD-2
Power Distribution Module:**

Provides all the circuitry required to fully interface the Evac system audio power amplifiers into the MPC-2000 EVAC system. The module includes AC and DC amplifier power distribution and supervision monitoring as well as a system trouble interface. The PD-2 module can provide the above functions for up to four discrete audio power amplifiers.

Function switches provided: None

Module indicators: Board mounted Amber low battery and battery disconnected LED's

Current draw: Alarm = 0.150 Amp
Standby = 0.030 Amp

Space required: 8.75 inches of rack space

**PD-4
Power Distribution Terminal Block:**

Provides the MPC-2000 EVAC system with 16 terminal connections. Connections are to interconnect one MPC-2000 cabinet to another.

Function switches provided: None

Module indicators: None

Current draw: None

Space required: (2) Module spaces

**VAA-C
250 Watt Audio Power Amplifier:**

Provides the MPC-2000 EVAC system with output necessary to drive audible 25 VAC speaker devices. The amplifiers are designed to be mounted directly into the VRR series of remote audio equipment racks. Wired to MPC-2000 system modules, the audio amplifiers are constantly supervised for loss of power and / or signal output.

Function switches provided: None

Module indicators: Red overload LED

Current draw: Alarm = 18.00 Amp
Standby = 0.000 Amp

Space required: 10.5 Inches of rack space

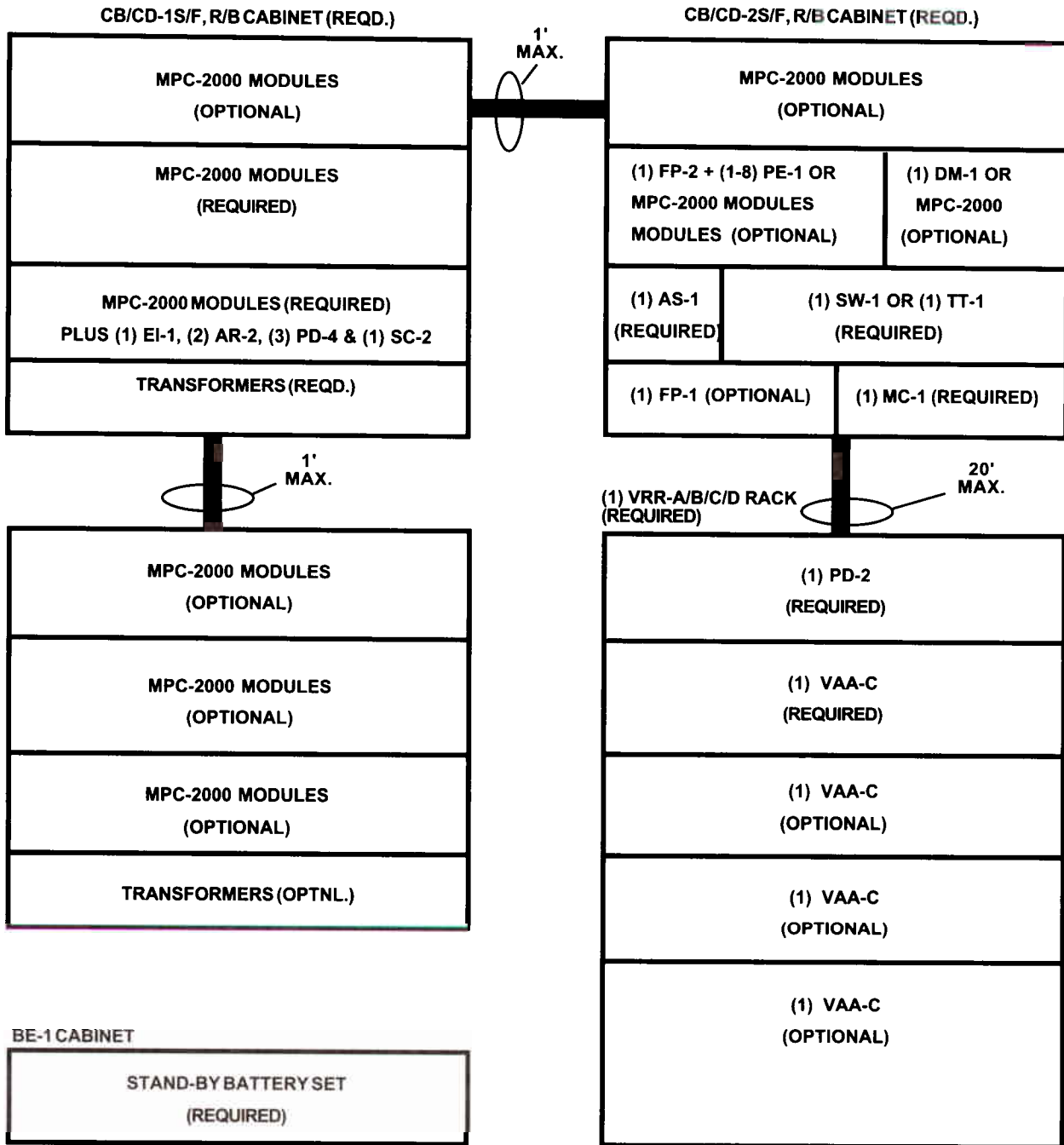
ORDERING INFORMATION

<u>Model#</u>	<u>Part #</u>	<u>Description</u>
MC-1	401191	Microphone with Pre-Amplifier
SW-1	401152	Slow-Whoop Tone Generator
TT-1	401153	Temporal Tone Generator
AS-1	401187	Amplifier Supervision
EI-1	401352	Evac Interface / All Call
DM-1A	401198	Digital Voice Repeater / Single Message Control Board
DM-1B	401193	Digital Voice Repeater / Four Message Control Board
DM-1C	401194	Digital Voice Repeater / Cont. Message Control Board
PD-2	401188	Amplifier Power Distribution
PD-4	401353	Power Distribution 16 Pair of Terminals
VAA-C	444578	250 Watt Amplifier
FP-1	401190	Master Phone with 4 Phone Ckts.
FP-2	401165	Mother Board for Max. of 8 PE-1
PE-1	401166	4 Phone Ckt. Extender Board
FP-3	401199	Master Phone 4 Circuit (For use with non Evac Systems)
VRR-A	7901-60-11	19" Equip. Rack 42" , Black
VRR-A	7901-60-11-94	19" Equip. Rack 42" , Red
VRR-B	7901-60-21	19" Equip. Rack 61" , Black
VRR-B	7901-60-21-94	19" Equip. Rack 61" , Red
VRR-C	7901-60-31	19" Equip. Rack 70" , Black
VRR-C	7901-60-31-94	19" Equip. Rack 70" , Red
VRR-D	7901-60-41	19" Equip. Rack 77" , Black
VRR-D	7901-60-41-94	19" Equip. Rack 77" , Red

FIRE ALARM CONTROL UNITS MPC-2000 EVAC

MPC-2000 EVAC SYSTEM OVERVIEW

FARADAY MPC-2000 AUDIO EVACUATION FIRE ALARM SYSTEM CONTROL UNIT



WARNING - The information contained in this document is intended only as a summary and is subject to change without notice. The devices described in this document have specific instruction sheets which cover various technical, limitation and liability information. Copies of these instruction sheets and the General Product Warning and Limitations Document, which also contains important information, are provided with the product and are available from the Manufacturer. Information contained in these documents should be consulted before specifying or using the product. For further information or assistance concerning particular problems contact the Manufacturer.