

Ring-Master Communication & Security System

RM5000/EX

Data Sheet

System Description

Ring-Master RM5000/EX is a fully electronic, microprocessor controlled communication and security system for up to 56 stations. This new concept, based on the previous RM5000CA communication system has been enhanced with hardware and software - to bring you the typical security features that are found in the larger CB901/CA system. The same advanced Crisis Alert features are now implemented in RM5000/EX. The system is functionally adapted to serve a large number of applications, such as:

- » Hospitals - Security & O.R.'s
- » Prisons and correctional institutions
- » Elevator communications
- » Parking garages, car parks and gates
- » Airports
- » Shopping malls
- » Production lines

INTERCOM FEATURES

For many years, RM5000 has been one of the most sold medium sized intercom systems in the world, and with the enhancement for security applications, the system has got an even stronger position in the market. The system features fast access communications, 56 line positions, master to master, staff to master - any combination you can ask for. The system has 3 conversation links, handsfree and confidential calls, T-button for manual control of speech direction, microphone mute, privacy, camp on busy extension, program distribution, all call, seven group calls, meet-me on all- and group calls, data transmission for remote control, 10 direct dialling keys on master stations, direct access to Control Room Masters, personal queue for incoming calls, up to seven hunt numbers for each station, autodialler for use with telephone interface, event log printer RS232 interface and video switcher RS232 interface.

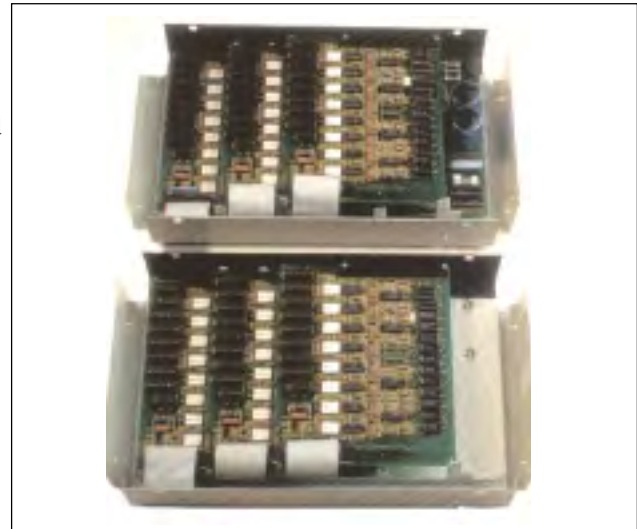
CRISIS ALERT FEATURE

This enhancement to the system allows a supervised monitoring and control system which provides pertinent information to a security system or control position operator. Incoming calls, busy field, priority or panic calls, supervision of lines and more can be annunciated on one or multiple CRT's in the system, with or without a time delay.

The Crisis Alert System will also allow substations to be programmed with different priority levels. There are nine levels of priority from which to choose.

Alphanumeric identification is programmed for each substation. This alphanumeric text is displayed on the annunciator and/or printer devices when a call is placed from a substation.

The RM5000/EX system is a platform, which continues to



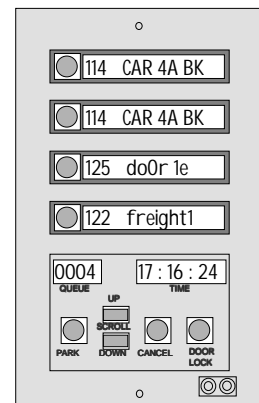
RM5000/EX **Supervised Annunciator System**

provide for modular expandability, large station capacities and multiple talk paths. Standard or special master or substations can be utilized in the system configuration. This system may be interfaced to a variety of other facilities such as CCTV systems, card access systems, in addition to such other auxiliary systems as smoke detectors and pressure sensors. A camera switcher may be assigned to substations and annunciator panels. When a call is answered on the annunciator, the camera switcher connects the camera at the substation with the video monitor at the annunciator. The video connection remains for the duration of the call.

Several RM5000/EX exchanges can be connected in a network by use of interlink units IF500.

DAD104, Digital Annunciator Display Module.

The DAD104 Digital Display module is part of the Crisis Alert System. This system provides for supervised lines from remote locations that are capable of being programmed to annunciate a twelve character alphanumeric message and also show four simultaneous calls in the display at one time. All other calls are kept in queue and can be retrieved in any order by scrolling up or down. The DAD 104 will display the queue of calls in a priority order from any of the nine programmable call-in levels. The DAD104 also



provides a clock that will display military time (24 hour mode) down to a second.

DAD 104 Features:

The DAD 104 is made to work in conjunction with the Ring-Master RM5000/EX central and shall provide the ability to display calls which may be originated from any Ring-Master "AB" type station. When a contact closure from a fire alarm, smoke detector or door contact is to be digitally displayed, then the use of an AN100 Call-In interface must be utilized. Any of the calls displayed may be answered by a single stroke of the key associated with the call. To park or cancel a call, only one stroke of the correct key will be required. The system will provide 100 % queuing of all incoming calls. Incoming calls will be received at the DAD module with an alert tone that is adjustable and the calls will flash in the display until the call is answered. The status of all calls that are displayed are described in the appropriate display window. (ie; call, park, busy, talk or fault). The DAD module provides a contact closure to drive other external devices at other locations. (ie; strobes, louder buzzers). The wiring is terminated on a removable screw terminal that makes for ease of installation.

System built-up and intercom specifications, please see Data Sheet for System RM5000, (WWT-108E).

Technical data system RM5000/EX:

Number of subscribers: Up to 56
 Number of links: 3
 Number of program channels: 1
 Central supply voltage: 24V DC

Power consumption, Control Card EX500: approx. 20W
 Power consumption, Subscriber Card: 1W (8 subscribers)
 Power supply: 24VDC/5Amp (PSDC24-5)
 (battery backup available)

Maximum input to program distribution channels:
 Aux. line, 100 mV/600 ohm)

Cable specifications:

2 leads for system information/audio
 2 leads for power supply

Line specifications:

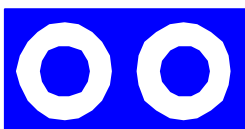
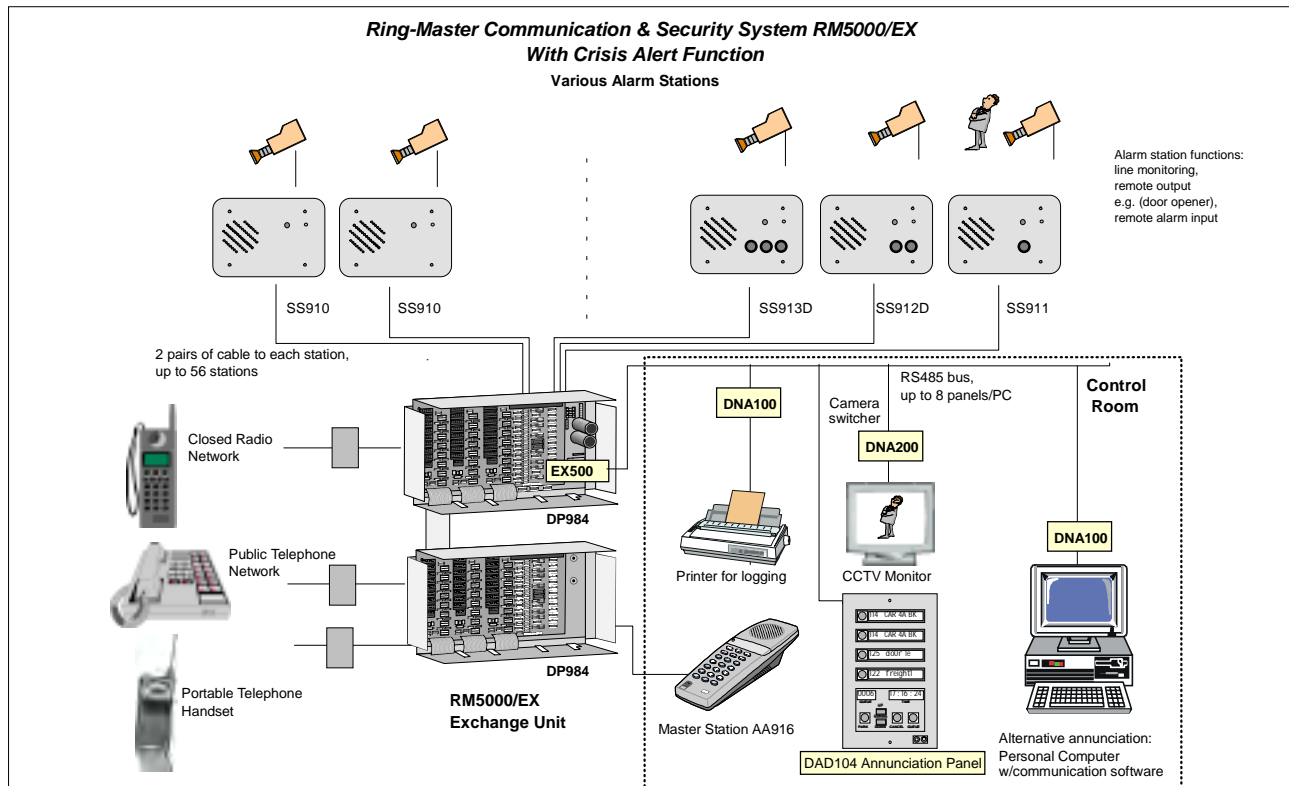
Frequency range: 300 - 5000 Hz
 Galvanic line: 0 dBm (1mW/600ohm)
 Speech level, idle: -12 dBm; max: +4
 Signalling level: -10 dBm
 Signalling frequencies CCITT specifications

Microprocessor: MC68HC11

Ambient temperature: +10 to +35°C (+50 to +95°F)

Cardshelf dimensions DP982:

Height: 276 mm/10.9" Width: 448 mm/17.6"
 Depth: 85 mm, Colour: Pearl grey



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