

Ring-Master Communication System **RM5000**

Data Sheet

System Description

Ring-Master RM5000 is a fully electronic, microprocessor controlled system, which fully satisfies the requirements for a modern and effective internal communication system. Apart from being one of the most sold medium sized systems for office use in the world, RM5000 is functionally adapted to serve a large number of other applications, such as:

- » Hospitals and nursing homes
- » Prisons and correctional institutions
- » Banks and financial institutions
- » Schools and educational institutions
- » Car parks, elevators, subway stations, etc.

The system is modular in concept and the central exchange can be expanded in steps of 8 subscribers per plug-in printed circuit board up to a maximum of 56 subscribers.

The central has 4 conversation channels (links) permitting 4 simultaneous conversations.

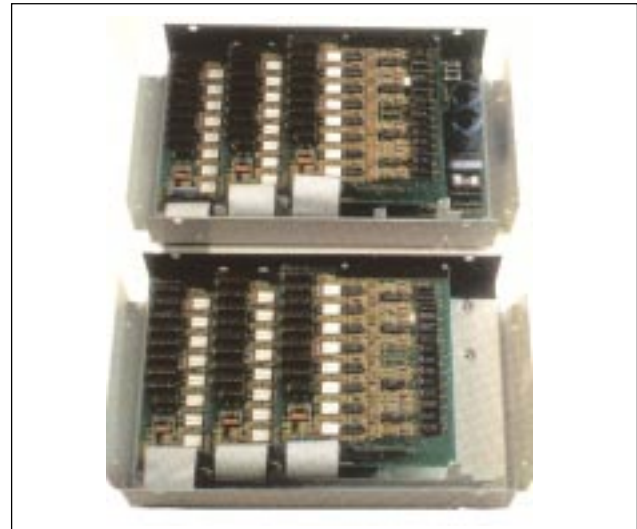
The RM5000 central consists of a basic cardrack with motherboard equipped for 8 call numbers (DP982). Two additional subscriber cards (DP983), each for 8 call-numbers, can be mounted in the basic cardrack to expand the central to 24 subscribers.

A second cardrack (DP984) with room for 4 more subscriber cards can be added with plug-in strap cable, permitting expansion up to maximum 56 subscribers.

The motherboard in the DP982 features plug-in microprocessor and integrated circuits for simplified maintenance, plug-in type terminals for rapid cable connections and flat cable sockets for plug-in subscriber cards. Each card position is fused individually to restrict down-time to a minimum in the event of external cable damage. The built-in rectifier and regulation circuits are powered from a separate 24 VAC mains transformer, or can operate on 24 VDC from a mains supplied rectifier, with or without a battery bank for "no-break" system operation.

Installation costs for the RM5000 system are kept to a minimum. Stations connect by a single cord to surface- or flushmounted wall sockets. Each socket requires only a single pair of wires to the central exchange for station identity, dialling, audio and control of all system functions, plus 2 wires for 24V power.

The central exchange, silent in use and small in size can be installed anywhere in the system. It is equipped with LED lamp indicators for monitoring the essential operating functions and facilitating routine system maintenance. The RM5000 system has an optional 2- or 3-digit callnumber series (10-99 or 100-999). Your call number can be programmed from your own station.



RM5000 **Customized Perfection**

Technical data system RM5000:

Number of subscribers: 55 (56)

Number of links: 4

Number of programme channels: 2

Central supply voltage: Transformer 24V AC +/- 10%,
50/60Hz or rectifier 24V DC, (battery for no-break)

Power consumption, Control Card DP982: approx. 20W
Power consumption, Subscriber Card: 1W (8 subscribers)

Power supply for all-/group call/programme distribution:
up to 24 subscribers: 24V DC/4A 1 pcs. LA924.
above 24 subscribers: 24V DC/8A 2 pcs. LA924.

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
- Speech level, max: + 4 dBm
- Signalling level: - 10 dBm
- Signalling frequencies CCITT specifications

Microprocessor: MC6802

Ambient temperature:

- +10 to +35°C (+77 to +95°F)

Cassette dimensions DP982:

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

CE Certification: RM5000 complies with the following standards: EMC directive 89/336-EEC, EN50081-1 and EN50082-1

Stations

A wide range of master- and substations optimises the flexibility of the system.

- » AA903, Flushmounted master station with aluminium front plate, or for surface mounting with backbox BF936
- » AA916, Standard desk master station, can be wall-mounted with wallbracket GF933. Available in dark grey colour.
- » AA905, Light industrial master station, constructed for indoor or outdoor use. Available for: surface-mounting (AA905B) or flush-mounting (AA905C)
- » AA906, Heavy-duty industrial master station, dustproof and splashproof.
- » AA911, light industrial master station w/polyester film front
- » AF103, Ex-proof masterstation with handset (Class IICT6)
- » AB931/AB931-F, Vandal-proof stations
- » RC104, Special hospital station with polyester film front
- » A large number of substations and doorstations of different design. Several of these are specially designed to fit the various customer requirements.

Features

The RM5000 central exchange is equipped with a wide range of advanced features. Several of these are standard for the system, accessible for all system users, others must be programmed for each user individually. Some of the features are programmable with microswitches on the motherboard in the DP982, others can be programmed directly from each station.

- » *Standard features*, available to all system users
- » *System features*, programmable with microswitches and available to all system users
- » *Individual features*, programmable from your own station for individual use
- » *Interface features*, require interface unit to external communication network.

Standard Features:

- Handsfree/loudspeaking
- Confidential/Softspeaking
- T-button for simplex control
- Microphone cut-off
- Camp on busy extension
- Data transmission
- Call last caller/Last number redial

System Features:

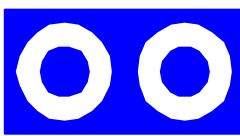
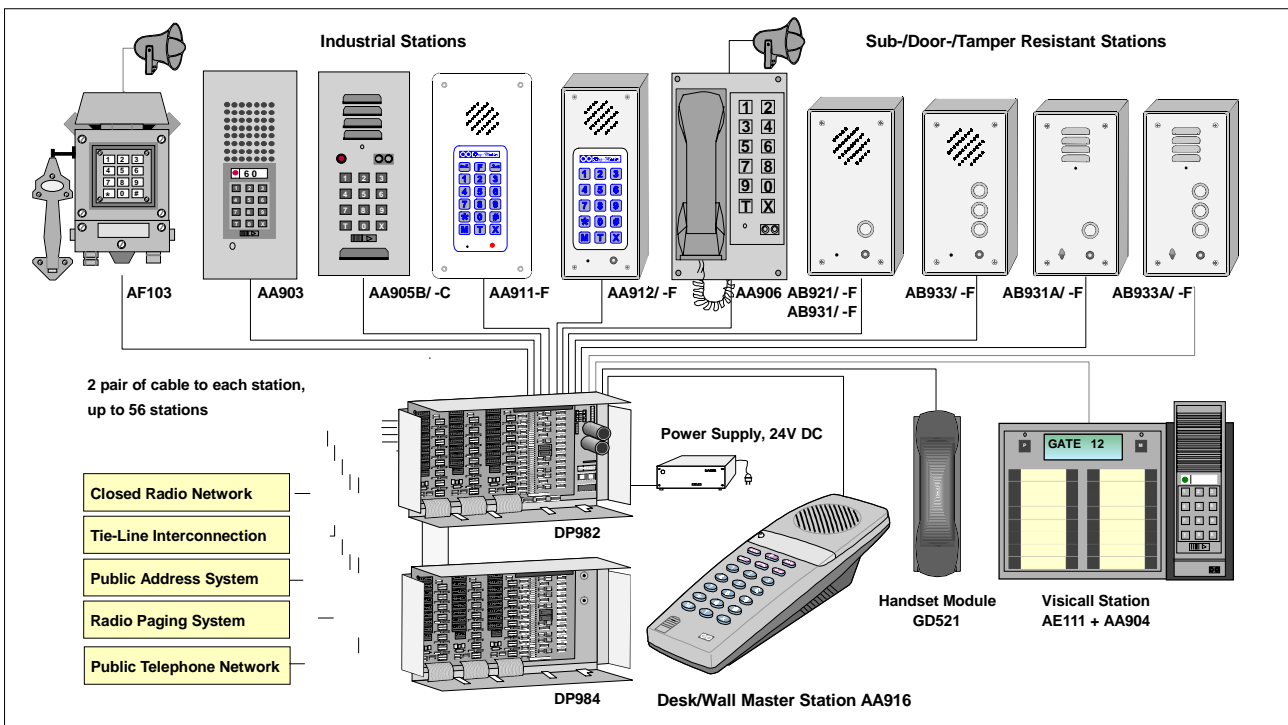
- Call number, 2 or 3 digit dialling
- Conference - 3 participants
- Hurry-up, Call-back, Call-forward
- Secretary transfer

Interface Features:

- Radio Paging
- Public Address
- Intersystem Tie-line
- Program Distribution, 2 channels
- Two-way Mobile Radio
- Telephone Public Network
- Voice Messaging (Mini-Svim)

Individual Features:

- Individual call number
- All call, Group call
- Hunt
- Priority/Privacy
- Direct dialling
- Direct access
- Central answering service (CAS)



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