

Ring-Master Communication System CB901

System Description

Ring-Master CB901 is an all-to-all direct speech system, controlled by a fully electronic central exchange. The brain of the system is a 16-bits microprocessor offering the user a wide selection of programmable features, designed to achieve flexibility and optimal efficiency in internal communication. The system configuration (numbering plan, etc.) as well as all features are simply programmed by using a dataterminal or PC (Personal Computer). Remote programming via modem is also possible. All stations are fully interchangeable since individual programmes are recorded in the central's memory.

Subscriber capacity, up to 7170.

The modular structure of the central permits easy expansion. Each subscriber card (8 subscriber positions) simply plugs in into the basic cardrack.

Simplified cabling.

The unique cabling concept allows for different cabling arrangements. Both the power supply and control units can be mounted decentralized. Each station requires one single pair for audio and signalling and one pair for power supply. To save cabling, remote groups of stations can be powered from local power units. In addition, the controlunit itself can be decentralized. Each controlunit (stage) for 240 subscribers can be installed anywhere in the system. The interconnection cabling between the master unit and the stages is optical fibre. Electronic cross-connections simplify the planning of a system.

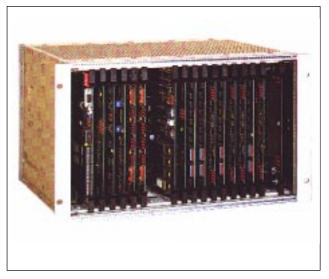
System configurations

The Ring-Master CB901 system is divided into 4 categories based on the subscriber capacity: *SINGLE-STAGE SYSTEM CB901-1*; up to maximum 240 subscribers *DOUBLE-STAGE SYSTEM CB901-2*; above 240 and up to 480 subscribers *TRIPLE-STAGE SYSTEM CB901-3*; above 480 and up to 717 subscribers *MULTI-STAGE SYSTEM CB901-M*; above 717 up to max. 7170. In the Single-Stage System CB901-1, the central unit consists of a Basic Cardrack DP991 containing the Basic Cardset DP952E and Subscriber cards DP978/DP990. There is room for max. 12 cards, i.e. 96 subscribers. If the number requirement exceeds this, the Subscriber Cardrack

DP992 must be added, giving a maximum capacity of 240 subscribers in a single-stage system.

Link capacity.

In a Multi-Stage System a Digital Network Controller (DNC) controls the internal traffic between all the stages. Each stage for 240 subscribers has 15 internal links. The



CB901 Excellent Performance

Technical data system CB901:

Power requirements: 24V DC regulated Internal voltages: +/- 12V, +/- 5V, 0V. Power consumption, data unit: approx. 1 Amp. Power consumption, Subscriber card: approx. 100 mA Max. power consumption: approx. 100Watt Cable specifications: 2 individual leads per station for audio 2 leads per station for power supply Line specifications: Frequency 300 - 5000 Hz Galvanic line: 0 dBm (1mW/600ohm) Speech level, normal: -12 dBm Speech level, max.: + 4 dBm Tone signalling level: - 10 dBm Tone signalling frequencies in accordance with CCITT norms Switching principle: Internal in nodes: Time Division Multiplex (TDM) with analog transmission based on Pulse Amplitude Modulation Between nodes: Digital transmission, Pulse Code Modulation (PCM), 2MBIT/S. Programme organization: Microprocessor (MPU) 16 bits MC68000 Cassette DP991/DP992 dimensions: Height: 264mm (10.4") Width: 483mm (19") Depth: 300mm (11.8") Colour: Aludine yellow CE Certification: CB901 complies with the following standards: EMC directive 89/336-EEC, EN50081-1 and EN50082-1

The company reserves the right to modify designs and alter specifications without prior notice, in pursuance of a policy of continuous improvement.

Data Sheet



RING-MASTER COMMUNICATION SYSTEM CB901

Data Sheet

- Call numbers, freely programmable

DNC has 1024 links. There are 8 interlinks between each slave stage and the DNC unit. CB901 provides not only fully adequate channel capacity, but also one dialling register per channel, thus ensuring an incredibly low blockage factor, handling traffic specifications up to 0.035 Erlang per station.

Stations and auxiliary equipment.

A wide range of stations can be supplied for the CB901 system, such as desk/wall master station w/display (AA960), desk/wall master station (AA916), surface and flush mounted stations (AA903), light (AA912) and heavy (AA906) industrial stations, light industrial station w/ display (AA961), explosion-proof stations (AF103), vandal-proof stations (AB931), membrane station (AA911) and a large number of substations and doorstations of different design. Several of these are specially designed to fit the various customer requirements.

See separate datasheets for stations and optional equipment.

Features.

The CB901 system has the following feature categories: Standard, Individual and Interface features.

- Standard features:
- Handsfree/loudspeaking
- Confidential/softspeaking All/Group-call with reply back
- T-button for simplex control Privacy
- Microphone cut-offCamp on busy extension
 - Call forward/Secretary transfer

- Sectoring/Portioning

- Direct conference dialling

- Central Answering Service (CAS)

Individual features:

- Call transfer

- Call reply

- Speed dialling

Direct dialling

Direct access

- Remote dialling

- Open station (line)

- Status output

- Priority

- Hunt

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- Hurry-up tone - Call-back

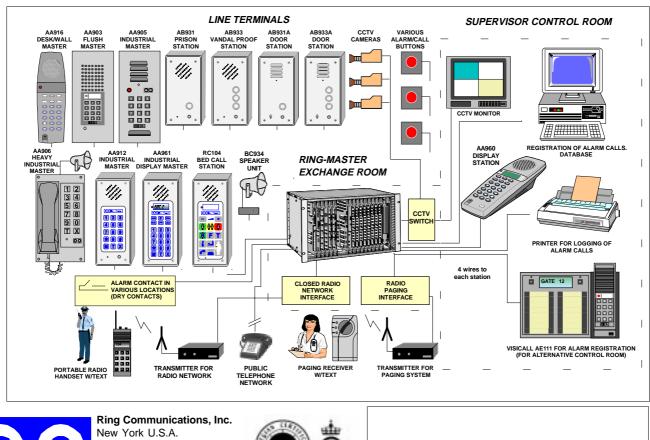
- Conference

- Remote control circuits
- (doorlocks etc.)
- Data transmission

IInterface features:

- Two-way mobile radio
- Radio paging
- Intersystem tie-line
- Public address
- Telephone public network
- Voice messaging (Mini-Svim)
- Programme distribution (Music),
- 8 channels
- 2 alarm channels w/priority

The system's flexibility permits combinations of the above features to provide virtually any service desired by the user.



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NS-EN ISO 9001: 1994

PRINT NO WWT-116E August 02