MCS-D 200

Control Unit

Order # 483.060

MCS·D

Front view

Rear view

FEATURES

- Discussion control unit to control a maximum of 1,000 microphone stations per system
- Fully digital audio and control
- One control unit for all delegate, chairman and interpreter stations
- Multi-Session-Management: Several meetings can be controlled with one MCS-D 200 control unit and the iCNS software simultaneously
- No additional or special control unit for interpreting applications necessary, as the MCS-D 200 can manage languages as well
- Port to connect a PC for operation with the iCNS software
- Port to connect a media control system

- Integrated power supply for a maximum of 15 microphone stations, optional for a maximum of 30 microphone stations. More microphone stations can be operated when using additional power supply units.
- Volume control for headphones
- Configuration via display (4 lines; 20 characters, 3 soft keys) and 4 buttons to navigate through the menu
- Definition and assignment of languages, booths and channels
- Monitoring and control of the interpreter stations
- Division of the microphone units into groups possible
- Interface management (DA/AD) for the output of languages, groups or original sound as well as for the input of external audio signals
- A second control unit can be integrated into the system as a spare control unit (ICNS software is needed)

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DESCRIPTION

The MCS-D 200 control unit can operate a digital conference and interpretation system with a maximum of 1,000 delegate and interpreter stations. The NetRateBus provides 54 multifunctional audio channels which can be allocated to different meetings. These audio channels allow a lot of applications such as discussing, interpreting and linking external participants to a meeting via phone conferencing.

The control unit features an integrated power supply for a maximum of 15 microphone stations. Optionally the control unit is available with two power supplies to supply a maximum of 30 microphone stations. When there are more than 30 microphone stations to be supplied, additional power supply units are required.

The system is configured by using the integrated display and multifunctional buttons or the iCNS operating and configuration software. The configuration includes selecting various operating and voting modes. By using the iCNS software you can select settings such as voting modes, graphical control, data band and video camera control in addition to operating modes and configuration of microphone stations as chairman stations. Via the control unit you can configure microphone station IDs, chairman stations, interpreting channels, audio interfaces and operating modes.

The following operating modes can be selected:

- Free
  Each participant can turn on his/her microphone. If the selected number of open microphones is exceeded, the microphone can be turned on as soon as another participant has turned off his/her microphone.

- Request
  By pressing the microphone button, the participant signals a request-to-speak. The microphone is released by the chairman.

- Automatic
  This mode combines the "free" and "request" modes. If the number of open microphones is exceeded, all participants pressing the microphone button are listed in a request-to-speak list. As soon as a microphone is turned off, the microphone of the first participant in the request-to-speak list is released automatically.

- FiFo / First in, First out
  Each participant can turn on his/her microphone. If the selected number of open microphones is exceeded, the microphone of the participant who turned on his/her microphone first is furned off when another participant turns his/her microphone on.

The MCS-D 200 also features a multisession function which allows several meetings to be controlled simultaneously when using the iCNS software. The number of meeting is only limited by the total number of available channels, i.e. in the extreme case there are 54 meetings each with one language or one meeting with 54 languages possible.

By combining two MCS-D 200 control units with one CA 4213 T-adapter, a breakdown of the system can be avoided. One control unit acts as "master" unit, the second as "mirror" unit. The "mirror" unit has the same data as the "master" unit at any time. If the "master" unit fails to work, the whole system changes over to the "mirror" unit immediately. The current meeting is not interrupted, i.e. the participants will not be affected by the failure of the "master" unit.

The NetRateBus allows hot plugging, i.e. devices can be removed, added or changed when the system is running.

The MCS-D 200 control unit provides a 19" housing and push-pull connections for the bus network. The bus network allows routing power, audio and control signals via the same cable.
The control unit features two RS 232 interfaces to connect to a PC or media control system.

TECHNICAL SPECIFICATIONS

Max. power consumption	1 power supply: 2 A, approx. 137 W
	2 power supplies: 4 A, approx. 250 W
Input voltage	100 - 240 V
Supply voltage	±24 V, max. 2 A
Fuse	6.3 AT (H)
System connections	Push-pull
Connection for PC or media control	2 x SubD-9 RS 232-C
Analogue audio input	2 x XLR IN, balanced (standard level: 0 dBu, range: -28.5 dB - +18 dB)
Analogue audio output	2 x XLR OUT, balanced (standard level: 0 dBu, range: -78 - +16.5 dB)
Number of audio channels	54 channels
Frequency response	-6 dB: 44.25 Hz - 22.0 kHz -3 dB: 72.0 Hz - 15.1 kHz
Maximum cable length between NetRateBus devices	60 m with the following cable type: "NetRateBus" conference network cable CA 4399, Order # 483.400
Temperature range	0 °C to +40 °C
Dimensions	19", 2 U, 482.6 x 87 x 300 mm (19 x 3.43 x 11.81 ")
Weight	approx. 6.9 kg (15.21 lb)

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OPTIONAL ACCESSORIES

CA 4100 Internal additional power supply unit
for the control unit to supply another
15 microphone stations via
NetRateBus . . . . Order # 483.583

CA 4146 Power supply unit for 45 microphone stations,
4 push-pull connections, 19" housing,
2 U . . . . Order # 486.779

CA 4212 Digital repeater,
2 push-pull connections. . . . . Order # 483.222

CA 4222 Digital repeater with DC connection,
2 push-pull connections. . . . . Order # 483.265

CA 4224 Digital X-Adapter with DC connection,
4 push-pull connections. . . . . Order # 483.281

CA 4231 Network connection plate with
push-pull socket and
0.5 m connecting cable with
female push-pull connection . . . . . Order # 483.303

CA 4235 6-pin network plug, push-pull . . . . Order # 483.311

CA 4236 6-pin network socket, push-pull . . Order # 483.338

CA 4300 NetRateBus conference network
cable per metre for installations. . . Order # 483.354

CA 4302 NetRateBus conference network
cable, push-pull connector,
length 2 m . . . . Order # 483.361

CA 4305 NetRateBus conference network cable,
push-pull connector, length 5 m . . Order # 483.370

CA 4310 NetRateBus conference network cable,
push-pull connector, length 10 m . . Order # 483.389

CA 4320 NetRateBus conference network cable,
push-pull connector, length 20 m . . Order # 483.397

CA 4399 NetRateBus conference network cable,
push-pull connector,
length on customer's request. . . . . Order # 483.400

CA 4588 Digital/analogue audio interface,
6 IN / 6 OUT . . . . Order # 722.677

ARCHITECT'S SPECIFICATIONS

Central control unit with computer processor as the core of a fully digital discussion network for controlling up to 1,000 units with 54 audio channels in the NetRateBus conference network. Integrated simultaneous interpreting function for up to 53 target languages. Mains adapter for supplying power to the NetRateBus for up to 15 microphone units, can be optionally extended to 30 positions. Network connection suitable for hot plugging, integral digital-analogue audio interface, each with 2 controllable, transformer-balanced XLR inputs and outputs. Multifunction keys, 4-key navigator and LC display for menu-guided system operation and configuration. RS232 interface at the rear for operation with PC software or media control unit. System check when the control unit is switched on. Selectable operating modes such as "request", once activated, use enabled by the president; "free", each participant can switch his/her microphone unit on and off individually, up to a maximum of 16 microphones are on at the same time; "Fifo", each participant can switch his/her microphone unit on and off individually, up to a maximum of 16 microphones are on at the same time, positions which are switched on over the limit switch off the micro-phones which have been on the longest; "Auto", each participant can switch his/her microphone unit on and off individually, up to a maximum of 16 microphones are on at the same time, positions which are switched on over the limit are automatically switched off once one of the active microphones has been switched off. The following parameters can be set in the system configuration: Number and address of the president monitoring units, monitoring unit address assignment, operating mode including limits, level of the signal inputs and outputs, designation of the channels for interpreting mode. Optional control-unit redundancy in connection with control software and monitor switch for disaster mode, as well as optional multi-session mode for controlling several conferences via a control unit in combination with control software. A push-pull system-quick plug connection for the conference network Two 3-pin XLR built-in plugs for transformer-balanced output -28.5 dB up to +18 dB and two 3-pin XLR built-in sockets for transformer-balanced input. Stand-alone table housing, suitable for 19" installation. 2HU. Ventilation slots at the front and rear: dimensions (LxWxH) 482.6x87x300mm weight 6,850g

Manufacturer: beyerdynamic
Type: MCS-D 200

For further distributors worldwide, please go to www.beyerdynamic.com
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