DIGIMIC® Compact Control Console and Additional Power Supply Unit

Description

The M95/44 control console contains all the functions required for power supply, control, signal amplification and signal distribution in the DIGIMIC® system.

Up to 120 DIGIMIC® DC/5 microphone units can be directly connected to the compact control console in four lines. Each connector socket is electronically protected against overload and short circuit and has an LED indicating that the socket in ready for operation.

The microphone stands are connected with one single cable. Voltage supply, audio and control signals within one single line (up to 30 microphone stands) are transmitted via this single cable which connects the different microphone stands in a loop.

For each of the four microphone lines, the control console is equipped with a zero-ohm amplifier with a LINE output socket (XLR). The AF routing switches (located at the front of the control console) allow for routing the audio signal of each microphone line to the corresponding amplifier or to the zero-ohm amplifier of line 1, which is for example necessary if the control console is to be connected directly and without mixing console to a P.A..

To be able to drive the loudspeakers that are integrated into the microphone stands, the control console is equipped with an integrated power amplifier; the volume level is controlled via a volume control. The loudspeaker signal (usually the output signal of the zero-ohm amplifier of line 1) can also be fed in from an external source (socket LS-IN), which is for example required if the original signal is to be mixed via a mixing console.

Via an integrated controller, microphone units can be operated without connecting a DIGIMIC® microphone switchboard. The following automatic operating modes are available: AUT, PABC with or without priority function as well as PAPB. Custom modes that are tailored to the customer's needs are available as an option.

Via a rotary switch, you can select one of the different microphone operating modes or the special modes REMOTE (control via the serial port, see below) and PROG-UNIT (to program unit numbers).

To select other operating modes, e.g. for manual operation, the back plate of the M95 control console is equipped with a C25 connector socket for DIGIMIC® microphone switchboards and a serial

port to connect external devices which assume overall control. An external device can be a PC, but also touch screens, special microphone switchboards etc..

To enlarge the whole system up to 250 microphone stands, you can interconnect several M95 control consoles via A9 cables (LINK plug and socket).

The control console offers a ventilated, switchable power supply unit. A power supply plug with integrated power switch provides for mains connection; an LED situated at the front serves as an operation indicator. Protective and systems ground can be separated with a switch (ground lift).

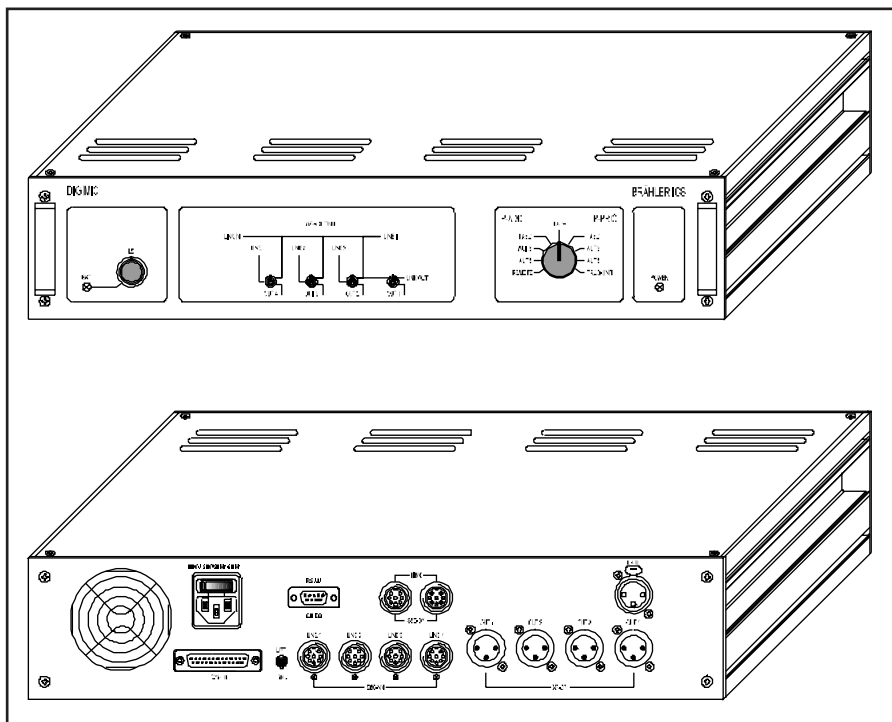Due to its 19" construction, the unit can be integrated into a rack.

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BRÄHLER ICS is committed to continually improving its products and so reserves the right to make technical modifications without notice.

Technical Data

Complies with internat. standard IEC914

Four LINE S8G sockets for connecting four lines with up to 30 microphone units each; each socket is electronically protected against overload and short circuit; LEDs indicate operating mode

Four LINE (XLR) audio output socket, balanced transmission, 0dB preset

Power amplifier 10W, 40V for loudspeakers integrated in microphone units

Integrated power supply plug with mains plug, LED to indicate operating mode

LS-IN socket to feed in external signals to the loudspeakers integrated in the microphone units

LS volume control with switch and LS-EXT LED for external LS signal

Operating modes available: PABC, AUT3, AUT6 with or without priority, PAPB, REMOTE, PROG-UNIT

Operating modes AUT3 and AUT6: The delegates switch their microphones on and off. Up to three (six) delegate microphones can be switched on simultaneously. As soon as three (six) microphones are active, all other microphones will automatically be blocked. The president microphone can be turned on additionally anytime.

Operation mode PABC: The delegates switch on their microphones. Only one single microphone can be on. The president microphone can be turned on additionally anytime.

Operating mode PAPB: The delegates switch on their microphones. Only one single microphone can be on. To be able to switch on a delegate microphone after a contribution has been made, the president microphone must first be switched on and off.

Special mode PRIO (priority): The operating modes PABC and AUT can be activated via the PRIO special mode. PRIO assigns priority to the president microphone, i.e. as soon as the President turns his microphone on, all other microphones will be switched off. In the PAPB operating mode this function is predefined.

Operating mode REMOTE: Select this operating mode to control the microphone units via an external device connected (PC, AMX, CRESTON).

Operating mode PROG-UNIT: In this mode, the technician can program the unit numbers (only available for microphone units with electronic number programming).

C25-DU socket to connect a microphone switchboard allowing for all operating modes and functions offered by the switchboard connected (see product information on these switchboards).

Integrated controller

RS232 interface to connect external devices assuming overall control

LINK plug and socket to enlarge the system

Ground lift switch to separate protection ground from system ground

Power supply unit 100W, 90-240V, 50-60Hz without change-over, ventilated

24V power supply for microphone units, 9V power supply for DIGIMIC® microphone switchboard

MIC frequency response: 80Hz-15kHz, LS: 250Hz-7.5kHz

Distortion factor: <0,5%

S/N ratio: 70dB(A)

Max. power consumption: 130VA

Aluminium cabinet, anodised black

Dimensions: 88.1x433x265mm (19", 2HE)

Weight: ca. 5.2kg

Accessories

mounting bracket for rack mounting

Options

Custom microphone operation mode 'custom mode'

Tender Specification

The control console should contain all the functions required for power supply, control, signal amplification and signal distribution in a discussion system. It must be possible to connect up to 120 microphone units directly to the compact control console. Each connector socket must be electronically protected against overload and short circuit; each should have an LED indicating that the socket is ready for operation.

It must be possible to connect the microphone units in single cable technology. For each of the four microphone lines, the control console should be equipped with a zero-ohm amplifier with a LINE output socket. The AF routing switches should allow for routing the audio signal of each microphone line to the corresponding amplifier or to the zero-ohm amplifier of line 1. To be able to drive the loudspeakers that are integrated into the microphone stands, the control console should be equipped with an integrated power amplifier; the volume level should be controlled via a volume control. It must be possible to fed in the loudspeaker signal from an external source.

Via an integrated controller, microphone units can be operated without connection of a microphone switchboard in the corresponding operating modes. Custom modes that are tailored to the customer's needs should be available as an option. Via a rotary switch, it must be possible to select one of the different microphone operating modes or the special modes REMOTE (control via the serial port) and PROG-UNIT (to program unit numbers). To select other operating modes, e.g. for manual operation, the control console should be equipped with a C25 connector socket for microphone switchboards and a serial port to connect external devices which assume overall control. To enlarge the whole system, it must be possible to interconnect several control consoles.

The control console should offer a ventilated, switchable power supply unit. A power supply plug with integrated power switch should provide for mains connection; an LED situated at the front should serve as an operation indicator. Protective and systems ground should be separated with a switch (ground lift). Due to its 19" construction it must be possible to integrate the unit into a rack.

Compact control console and additional power supply unit made by BRÄHLER ICS®, type M95/44 or equivalent.