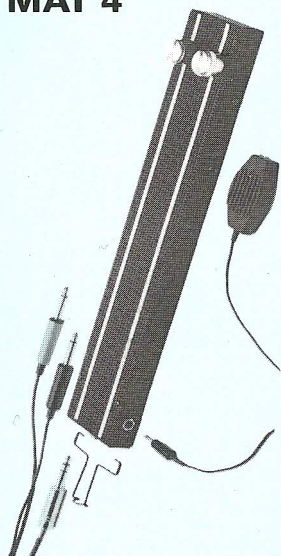


DYNAMIC MICROPHONES FOR MUSICIANS

MAT 4



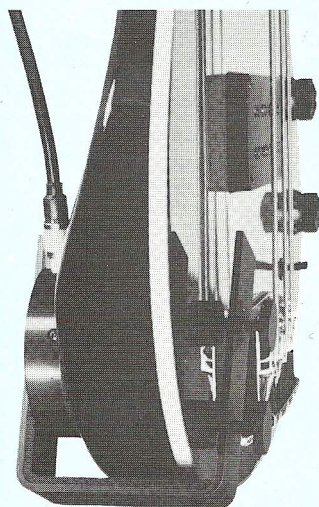
Accordion pickup.

In contrast to well-known models, these are two dynamic plug-in microphones comprising the treble pickup MAT 3.01 and the bass chord pickup MAB 3. Exceptionally wide frequency response and designed for suppressing unwanted noise from the keyboard's mechanical system, stops, register slides, or fingering. Satisfies all requirements concerning high-fidelity and full reproduction of the accordion sound. Separate volume control for treble and bass. Connection to two microphone inputs. Easy installation on the outside of the accordion.

Technical specifications

Frequency response	
Treble pickup:	30 - 20 000 Hz
Bass chord pickup:	20 - 6 000 Hz
Pickup pattern	
Treble pickup:	bidirectional
Bass chord pickup:	bidirectional
Directivity factor	
Treble pick up:	> 26 dB at 1 kHz/90°
Bass chord pickup:	> 20 dB at 1 kHz/90°
Free-field sensitivity	
Treble pickup:	2 mV/Pa Δ - 54 dBV
Bass chord pickup:	1 mV/Pa Δ - 60 dBV
Nominal impedance:	200 Ω each
Nominal load impedance:	\cong 1 k Ω each

KBM 1



Pickup for electric bass guitars (system Dömling).

World's first special pickup for producing the sound of an acoustic bass by means of an electric bass guitar. Simple mounting to the body with a clip. Extensive sound variation by adjusting the pressure with two setscrews.

Technical specifications

Nominal impedance:	600 Ω
Nominal load impedance:	\cong 3 000 Ω

Dimensions

Diameter:	69 mm
Height:	20 mm
Weight (with fastening bow):	330 g

HM 560



Dynamic vocalist's microphone with headband. Bidirectional characteristic.

The solution for drummers, keyboarders, also entertainers, who sing in addition to playing their instruments. Headband for mounting the microphone either on the left-hand or right-hand side. Adjustable distance and angle to the musician's mouth. For outside broadcast purposes also combinable with headphones DT 100 by simply replacing a cover on the housing of the headphones (BN 54-158).

Technical specifications

Frequency response:	20 - 20 000 Hz
Polar pattern:	bidirectional
Open circuit voltage:	0.4 mV/Pa Δ - 68 dBV
Output impedance:	200 Ω
Load impedance:	\cong 1 k Ω

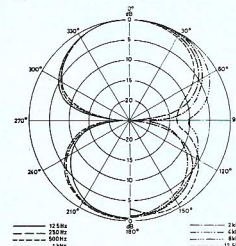
Weight without headband:	66 g
Weight with headband:	120 g

Models

HM 560 N (C)
HM 560 V. 04 ^{*1}
M 560 N (C)
M 560 V. 04 ^{*1}
HM 560/42 ^{*2}

^{*1} with microphone preamplifier

^{*2} for direct interface to pocket transmitters TS 42.10 - 10 etc.



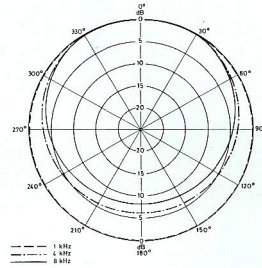
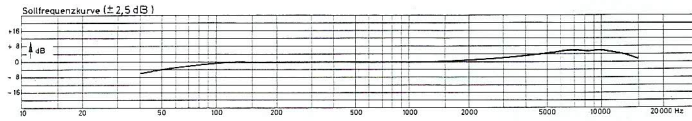
SPECIAL APPLICATION DYNAMIC MICROPHONES

M 58



Studio-quality microphone.

The M 58 omnidirectional moving coil microphone has been specifically designed to satisfy the demands of electronic news gathering (ENG) and electronic field production (EFP) applications in broadcast industry. Its sophisticated internal shockmount dramatically reduces undesirable handling noise. The frequency response has been fine tuned to provide broadcasters with accurate reproduction of voice information with a very high degree of intelligibility.



Technical specifications

Transducer type: Dynamic, moving coil, pressure transducer
 Frequency response: 40 - 20 000 Hz
 Polar pattern: Omnidirectional
 Open Circuit voltage at 1 kHz: 1,3 mV/Pa
 Output level: -57 dBm (0 dBm ≙ 1 mW/Pa)
 EIA sensitivity rating: -149 dB (0 dB ≙ 1 mW/2 · 10⁻⁵ Pa)
 Nominal impedance: 200 Ω
 Load impedance: > 200 Ω

Dimensions

Length: 260 mm
 Shaft diameter: 23 mm
 Head diameter: 40 mm
 Weight: approx. 256 g

Models

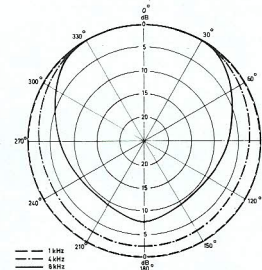
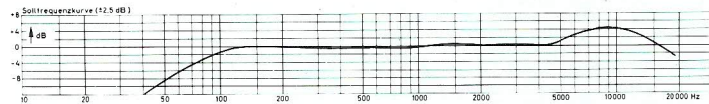
M 58 N (C)

M 101



Studio-quality dynamic microphone. Omnidirectional characteristic.

This microphone requires excellent room acoustics, but in turn it gives an atmosphere to the production. Balanced frequency response with a slight emphasis at the upper end. Suited for studio and OB productions. Talk-back is possible because the M 101 can handle speech modulated voltages of up to 2 volts.



Technical specifications

Transducer type: Dynamic, moving coil
 Frequency response: 40 - 20 000 Hz
 Polar pattern: Omnidirectional
 Open circuit voltage at 1 kHz: 1,3 mV/Pa
 Output level: -57 dB (0 dB ≙ 1 mW/PA)
 EIA G_m output: -149 dB (0 dB ≙ 1 mW/2 · 10⁻⁵ Pa)
 Nominal output impedance: 200 Ω
 Load impedance: > 200 Ω

Dimensions

Length: 118 mm
 Shaft diameter: 22.6 mm
 Head diameter: 22.6 mm
 Weight: approx. 160 g

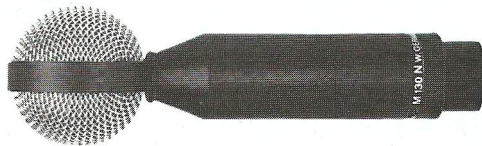
Models

M 101 N
 M 101 N (C)



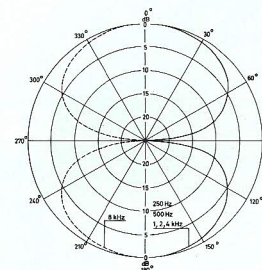
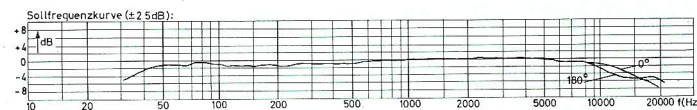
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M 130



Studio-quality dynamic microphone. Figure eight characteristic.

This double-ribbon microphone features a uniform, frequency-independent directional characteristic in the shape of figure 8. It is used in M/S stereo, for picking up dialogs, and for including the audience in the transmission of a stage production. Excellent suppression of unwanted signal at 90° and 270° off-axis.



Technical specifications

Transducer type: Dynamic, ribbon
 Frequency response: 40 - 18 000 Hz
 Polar pattern: Figure 8
 Side attenuation at 90°: > 30 dB
 Open circuit voltage at 1 kHz: 1,0 mV/Pa
 Output level: -59 dB (0 dB ≙ 1 mW/Pa)
 EIA G_m output: -152 dB (0 dB ≙ 1 mW/2 · 10⁻⁵ Pa)
 Nominal output impedance: 200 Ω
 Load impedance: ≙ 1 000 Ω

Dimensions

Length: 128 mm
 Shaft diameter: 23 mm
 Head diameter: 38.5 mm
 Weight: approx. 150 g

Models

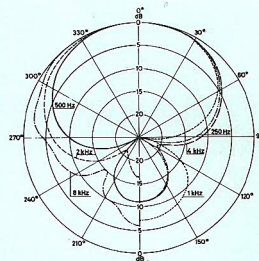
M 130 N (C)

DYNAMIC MICROPHONES FOR ANNOUNCERS

M 260 N. 80



Dynamic microphone. Hypercardioid characteristic. Ribbon microphone with bass de-emphasized frequency response for use in live rooms such as churches. Extremely low feedback. Cylindrical shaft.



Specifications

Transducer type: Dynamic, ribbon
 Frequency response: 100 - 18 000 Hz
 Polar pattern: Hypercardioid
 Side attenuation at 115°, 1 kHz: > 20 dB
 Open circuit voltage at 1 kHz: 1.2 mV/Pa
 Output level: - 57 dB (0 dB \triangleq 1 mW/Pa)
 EIA G_m output: - 150 dB (0 dB \triangleq 1 mW/2 · 10⁻⁵ Pa)
 Nominal output impedance: 200 Ω
 Load impedance: > 500 Ω

Dimensions

Length: 163 mm
 Shaft diameter: 24 mm
 Head diameter: 43.5 mm
 Weight: 230 g

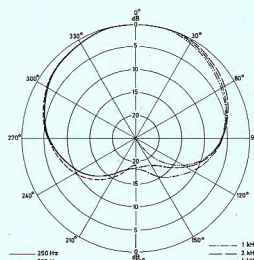
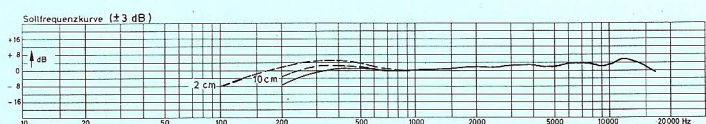
Models

M 260 N. 80*
 M 260 N (C). 80

M 411



Dynamic directional microphone. Cardioid characteristic. Field-proven announcer's microphone. Maximum intelligibility of speech picked up in noisy surroundings. Very low feedback. Available as a hand-held microphone as well as for gooseneck mounting. Switch function available in various versions. M 411.15 with push button.



Specifications

Transducer type: Dynamic, moving coil
 Frequency response: 200 - 12 000 Hz
 Polar pattern: Cardioid
 Attenuation at 180°, 1 kHz: > 15 dB
 Open circuit voltage at 1 kHz: 1.4 mV/Pa
 Output level: - 56 dB (0 dB \triangleq 1 mW/Pa)
 EIA G_m output: - 149 dB (0 dB \triangleq 1 mW/2 · 10⁻⁵ Pa)
 Nominal output impedance: 200 Ω
 Load impedance: > 500 Ω

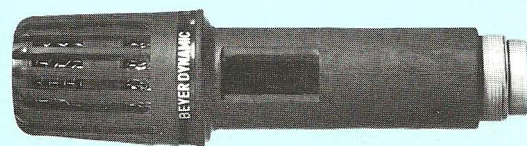
Dimensions

Length: 139 mm
 Length for model without push button: 82 mm
 Shaft diameter: 28 mm
 Head diameter: 38 mm
 Weight: 150 g

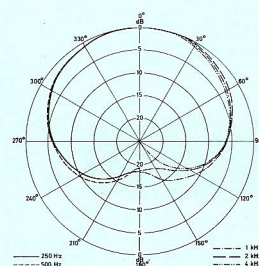
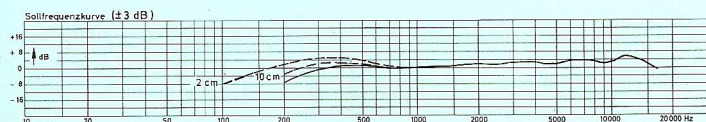
Models

M 411 N (T)
 M 411 N (T) S
 M 411 N (T/5) S.1
 M 411.15

M 412



Dynamic directional microphone. Cardioid characteristic. High-security ductile microphone. Its crushability reduces injuring hazards in case of violent breaking or accident. Very low feedback. Available as a hand-held microphone as well as for gooseneck mounting. Also available with ON/OFF switch or switch to control an external relay circuit.



Specifications

Transducer type: Dynamic, moving coil
 Frequency response: 200 - 12 000 Hz
 Polar pattern: Cardioid
 Attenuation at 180°, 1 kHz: > 15 dB
 Open circuit voltage at 1 kHz: 1.4 mV/Pa
 Output level: - 56 dB (0 dB \triangleq 1 mW/Pa)
 EIA G_m output: - 149 dB (0 dB \triangleq 1 mW/2 · 10⁻⁵ Pa)
 Nominal output impedance: 200 Ω
 Load impedance: > 500 Ω

Dimensions

Length: 140 mm
 Shaft diameter: 28 mm
 Head diameter: 38 mm
 Weight: 150 g

Models

M 412 N (T) S
 M 412 N (T) S.2
 M 412.15

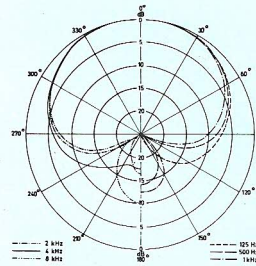
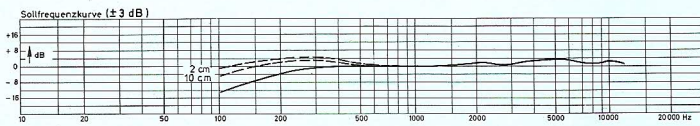


DYNAMIC MICROPHONES FOR ANNOUNCERS

M 420



Dynamic directional microphone. Hypercardioid characteristic. For use in high-quality electroacoustical installations. Efficient bass de-emphasis prevents pickup of low-frequency noise. Extremely low feedback. Rugged all-metal housing. Slim, elegant styling. For gooseneck mounting e.g. in conjunction with the beyerdynamic table stand MTF 222-SH 15/250 N resp. MTF 222-SH 15/250 N (C).



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Specifications

Transducer type:	Dynamic, moving coil
Frequency response:	100 - 12 000 Hz
Polar pattern:	Hypercardioid
Side Attenuation at 120°, 1 kHz:	> 20 dB
Open circuit voltage at 1 kHz:	1.2 mV/Pa
Output level:	- 57 dB (0 dB \triangleq 1 mW/Pa)
EIA G _m output:	- 150 dB (0 dB \triangleq 1 mW/2 · 10 ⁻⁵ Pa)
Nominal output impedance:	200 Ω
Load impedance:	> 500 Ω

Dimensions

Length:	98 mm
Shaft diameter:	24 mm
Head diameter:	24 mm
Weight:	approx. 150 g

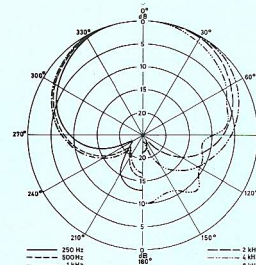
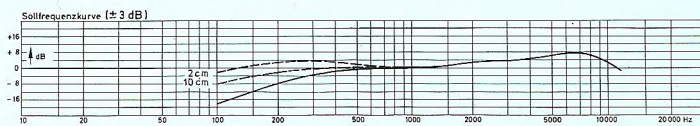
Models

M 420 N
M 420 N (C)

M 422



Dynamic directional microphone. Supercardioid characteristic. Particularly low-priced, small directional microphone for speech transmission. Very low feedback. Excellent intelligibility also of speech picked up in noisy surroundings. Suited for voice communication and paging systems and as an announcer's microphone on mixing consoles. For gooseneck mounting e.g. in conjunction with the beyerdynamic table stand MTF 222-SH 15/250 N resp. MTF 222-SH 15/250 N (C).



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Specifications

Transducer type:	Dynamic, moving coil
Frequency response:	100 - 12 000 Hz
Polar pattern:	Supercardioid
Side attenuation at 135°, 1 kHz:	> 20 dB
Open circuit voltage at 1 kHz:	1 mV/Pa
Output level:	- 59 dB (0 dB \triangleq 1 mW/Pa)
EIA G _m output:	- 152 dB (0 dB \triangleq 1 mW/2 · 10 ⁻⁵ Pa)
Nominal output impedance:	200 Ω
Load impedance:	> 500 Ω

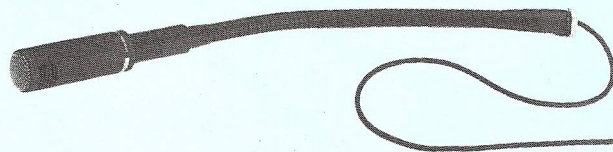
Dimensions

Length:	80 mm
Shaft diameter:	23.8 mm
Head diameter:	23.8 mm
Weight:	approx. 70 g

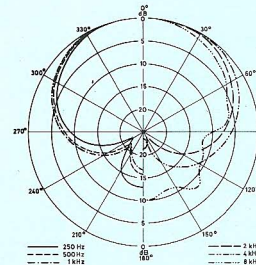
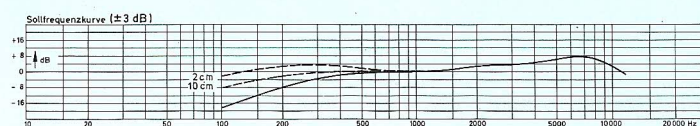
Models

M 422 N
M 422 N (C)

SHM 422



The M 422 permanently attached to a gooseneck, suited for installation on a speakers' desk or mixing consoles. Excellent intelligibility of speech also under unfavourable conditions. Combined with the ZSH 40 (see page 40) ideal protection against footfall sound and other noise.



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Technical specifications

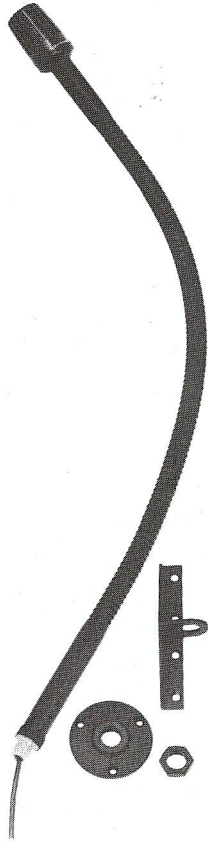
Transducer type:	Dynamic, moving coil pressure gradient
Polar pattern:	Supercardioid
Frequency response:	100 - 12 000 Hz
Side attenuation at 135°:	> 20 dB
Open circuit voltage at 1 kHz:	1 mV/Pa
EIA sensitivity rating:	- 152 dBm
Nominal impedance:	200 Ω
Load impedance:	> 500 Ω

Dimensions

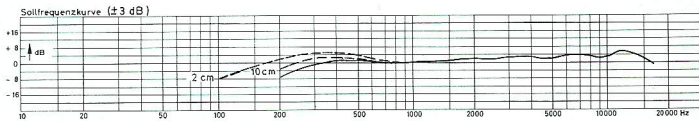
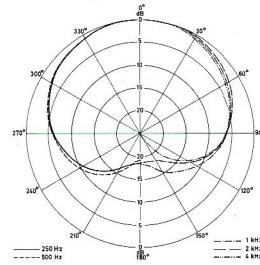
Length:	350 mm
gooseneck diameter:	11 mm
Internal thread at bottom:	3/8"
Length of cable:	1 m (free end)
Weight:	250 g

DYNAMIC MICROPHONES FOR ANNOUNCERS

SHM 415



Gooseneck announcer's microphone, suited for installation in urban and suburban buses of public transport systems. Acoustical characteristics identical to those of the safety microphone M 412 that has proven itself over many years. The system is flexibly mounted in a rubber head which is protected by a deformable wire screen. This head prevents injury to the driver in the event of an accident. The head is permanently attached to a rugged gooseneck, the lower end of which terminates in a straight tube with mounting flange. Suspended mounting. Optimum voice pickup distance: 10 - 15 cm.



Specifications

Model:
 Mode of operation:
 Pickup pattern:
 Frequency response:
 Free-field sensitivity at 1 kHz
 (0 dBV \pm 1 V/Pa):
 Output level for close-talking (approx. 5 cm)
 and normal talking volume:
 Electrical impedance:
 Rated load impedance:
 System nominal temperature range:
 System maximum temperature range:

SHM 415
 Pressure-gradient microphone
 Cardioid
 200 - 14 000 Hz

1.4 mV/Pa \pm -57 dBV

approx. 2.5 mV
 200 Ω
 > 500 Ω
 from -20° to +80°C
 from -40° to +100°C
 (No permanent changes in the
 characteristics may occur if
 these limits are reached for
 short periods.)

Mechanical specifications:

Microphone head:
 Volume weight of the shell material:
 Ultimate elongation:
 Notch value:
 Low temperature toughness:

Neoprene, 70 CR/746
 1.51 g/cm³
 300 %
 78.5 N/cm
 -30°C

(Rubber will not be destroyed at
 this temperature, however it
 may break under strain.)

Shore hardness:
 Temperature range:

70° Shore
 -30° to +100°C
 (Short-time heating for up to
 15 minutes and up to 140°C
 admissible).

Stability to light:

No discoloration, also not by the
 UV radiation contained in sunlight.

Ageing stability:
 ASTM grading:
 Cleaning:

5 years warranty
 2 BC 715 A 14 B 14 E 34
 Soap or detergent solution, or
 quick wiping with a piece of
 cloth soaked with alcohol,
 mineral spirits, or
 trichloroethylene.

Gooseneck:
 Surface:
 Overall length:
 Mounting:

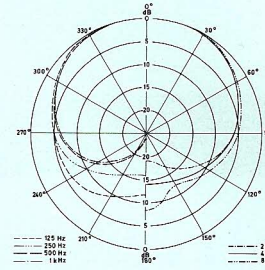
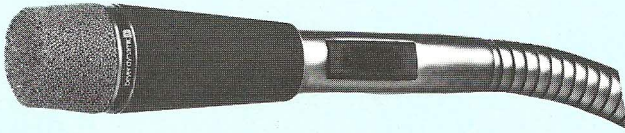
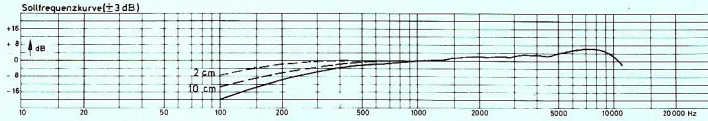
18 mm diameter
 chromium-plated, black
 730 mm
 By means of mounting bracket or
 mounting flange
 (specify with order).

DYNAMIC MICROPHONES FOR ANNOUNCERS TABLE STANDS

M 640/M 680



Dynamic directional microphone. Cardioid characteristic. Small microphone for conference and interpreter installations. Insensitive to solid-borne noise because of flexible system mounting. Extremely low feedback. Ideal close-talking characteristic through sintered bronze head in conjunction with an acoustical filter. For gooseneck mounting. For versions with permanently attached gooseneck refer to models.



Specifications

Transducer type: Dynamic, moving coil
 Frequency response: 100 - 12 000 Hz
 Polar pattern: Cardioid
 Attenuation at 180°, 1 kHz: > 20 dB
 Open circuit voltage at 1 kHz: 1 mV/Pa
 Output level: - 59 dB (0 dB Δ 1 mW/Pa)
 EIA G_m output: - 152 dB (0 dB Δ 1 mW/2 · 10⁻⁵ Pa)
 Nominal output impedance: 200 Ω
 Load impedance: > 500 Ω

Dimensions

Length: 80 mm
 Shaft diameter: 20 mm
 Head diameter: 26.5 mm
 Weight: approx. 110 g

Models

M 640 N
M 680 S

Attached to gooseneck, diam. 15 mm, bottom with 3/8" internal thread. Overall length approximately 500 mm with ON/OFF switch. Shielded, 2-conductor connecting cable, length 6 m, blank end.

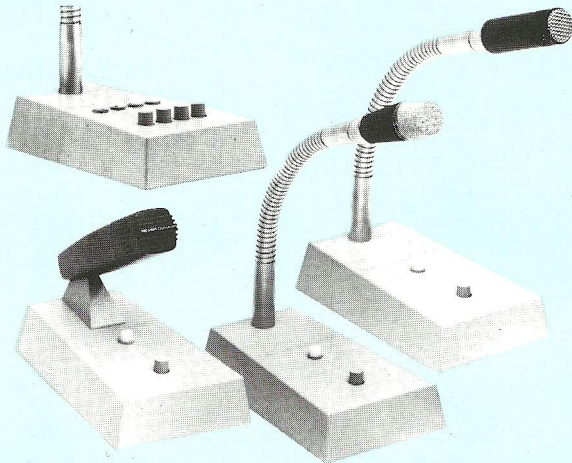
M 682

Attached to gooseneck, diam. 11 mm, bottom with 3/8" internal thread, overall length approximately 300 mm without switch. Shielded, 2-conductor connecting cable, length 6 m, blank end.

M 682 N (CF)

Same as M 682, but gooseneck with female screwable XLR-type connector at the bottom end.

MTF 222



Desktop speaker's station. beyerdynamic table stands satisfy all requirements for individual, application-oriented design of the installation. The universal base MTF 222 can be fitted with up to 4 pilot lamps and up to 12 switches*. Standard version: 1 switch/1 lamp (S 1/L 1).

The switches can be individually converted to push buttons by removing a spring. This station is designed to accommodate beyerdynamic transformers and a relay. The table stands are supplied without cabling and without microphone.

Models

MTF 222-81

Desktop speaker's station with permanently attached directional microphone M 81.

MTF 222-SH 15/250 N

Desktop speaker's station with gooseneck, diam. 15 mm, length 250 mm, top fitted with standard DIN female coupling for microphones M 420 - M 422 - M 640.

MTF 222-SH 11/200 N

Desktop speaker's station with gooseneck, diam. 11 mm, length 200 mm, top fitted with standard DIN female coupling for microphone M 420 - M 422 - M 640.

MTF 222-SH 15/250 N (T)

Desktop speaker's station with gooseneck, diam. 15 mm, length 250 mm, top fitted with large, Tuchel female coupling for microphones M 411 N (T).

MTF 222-SH 15/250 N (CF)

same as above, but with gooseneck for microphones with XLR-connector.

*Optional configurations (available only in larger quantities)

● = possible

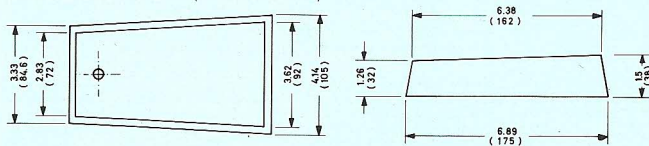
○ = impossible

Lamps (L)

Switches (S)

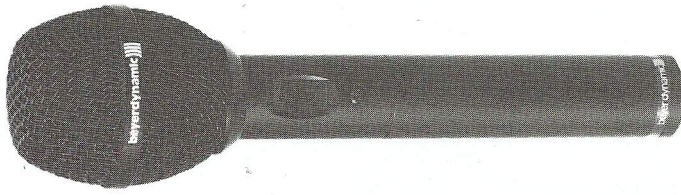
Touches (S)	0	1	2	3	4
0	●	●	●	●	●
1	●	●	●	●	○
2	●	●	●	○	○
3	●	●	○	○	○
4	●	○	○	○	○
5	●	○	○	○	○
6	●	○	○	○	○
7	●	○	○	○	○
8	●	○	○	○	○
9	●	○	○	○	○
10	●	○	○	○	○
11	●	○	○	○	○
12	●	○	○	○	○

Dimensions in inches (mm in brackets)

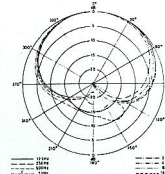
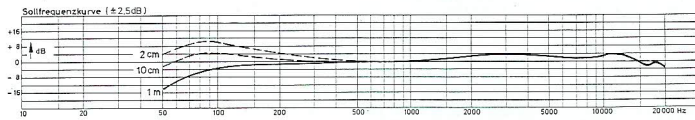


CONDENSER MICROPHONES FOR MUSICIANS

MCE 80



Unidirectional condenser microphone. Supercardioid polar pattern. First-class quality. It can either be operated by a 4,5 V battery located in the microphone shaft or with switch in OFF-position by any phantom power supply between 12 and 48 V. The MCE 80 gives the musician the advantages of a high sophisticated studio condenser with the ruggedness of a dynamic stage microphone. For vocalists and instrumental pick-up.



Technical specifications

Transducer type: Electrostatic pressure gradient
50 - 18 000 Hz
Supercardioid

Frequency response: approx. 20 dB

Polar pattern: 3,2 mV/Pa \pm -50 dBV

Side attenuation at 120° and 1 kHz: 190 Ω

Open circuit voltage at 1 kHz (0 dBV \pm 1 V/Pa): $\geq 1000 \Omega$

Nominal impedance: 126 dB

Load impedance: 138 dB

Max. SPL at 1 kHz and THD $\leq 1\%$

a) with battery: 60 dB typical

b) with phantom power supply: 26 dB typical

Signal-to-noise ratio rel. to 1 Pa:

A-weighted equivalent SPL: approx. 1,2 mA

Current consumption: approx. 3 mA

a) with battery

b) with phantom power supply

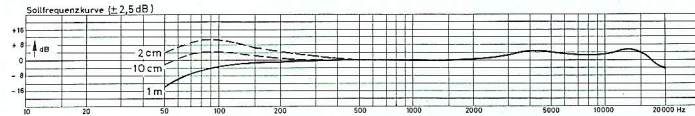
Dimensions

Length: 210 mm
Shaft diameter: 25 mm
Head diameter: 54 mm
Weight: 236 g

MCE 81



Unidirectional condenser microphone. Hypercardioid polar pattern. One of beyerdynamic's new touring microphones. Very rugged, durable with outstanding sound performance. Can be operated by any phantom power source between 12 and 48 V.



Technical specifications

Transducer type: Electrostatic pressure gradient
50 - 18 000 Hz
Cardioid

Frequency response: approx. 20 dB

Polar pattern: 3,2 mV/Pa \pm -50 dBV

Attenuation at 180° and 1 kHz: 190 Ω

Open circuit voltage at 1 kHz (0 dBV \pm 1 V/Pa): $\geq 1000 \Omega$

Nominal impedance: 138 dB

Load impedance: 60 dB

Max. SPL at 1 kHz and THD $\leq 1\%$: 26 dB

Signal-to-noise ratio rel. to 1 Pa.: 12 - 48 V phantom power

A-weighted equivalent SPL: approx. 3 mA

Supply voltage:

Current consumption:

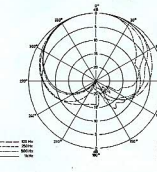
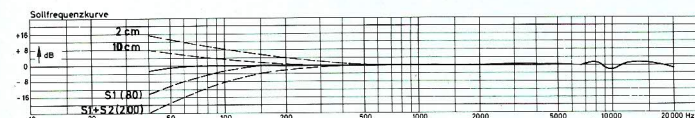
Dimensions

Length: 177 mm
Shaft diameter: 23/31 mm (conical)
Head diameter: 45 mm
Weight: approx. 265 g

MC 734 PA P 48



This is the stage version of the soloist's condenser microphone MC 734. In contrast to the standard model it can attain an audio level that is approximately 6 dB higher. Black lusterless finish to prevent reflections from the floodlights illuminating the stage. The microphone shaft has a removable leather handle cover that absorbs perspiration from the hands.



Technical specifications

Supply voltage: 48 \pm 4 V

Current consumption: approx. 0,5 mA

Frequency response: 20 - 20 000 Hz

Polar pattern: cardioid

Sensitivity: 5 mV/Pa \pm -46 dBV

Source impedance: 150 Ω

Minimum load impedance: $\geq 1000 \Omega$

Max. SPL for 0,5% THD at 1 kHz: 138 dB

Noise voltage: (DIN 45 405): 1,7 μ Vs

S/N ratio according to DIN 45 590 (ref. level 1 Pa): 69 dB

A-weighted equivalent noise level due to inherent noise (JEC 179): approx. 18 dB

Dimensions

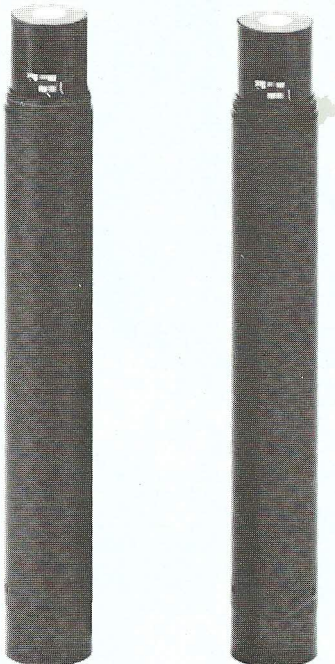
Length: 175 mm
Shaft diameter: 25 mm
Head diameter: 45 mm
Head length: 80 mm
Weight: 270 g

STUDIO CONDENSER MICROPHONES MCM System

beyerdynamic MCM-studio-quality condenser microphones consist of two parts: the amplifier handle and exchangeable microphone head. This modular design makes it possible to combine an existing amplifier handle with different microphone heads as required – a practical and economical solution for the user.

CV 710 P 48

CV 720 P 12/PV



CV 710 N (C)

CV 720 N (C)

The designation of the complete microphone is obtained by adding the numbers of the series 700 microphone heads and amplifier handles, e.g.:

CK 701 + CV 710 N = MC 711 N
 CK 704 + CV 710 N (C) = MC 714 N (C)
 CK 707 + CV 720 N = MC 727 N

The choice of amplifier handle depends on the available powering and the desired connector version:

for 48 V phantom powering

CV 710 N (with DIN connector)
 CV 710 N (C) (with XLR connector)

for 12 V phantom powering

CV 720 N (with DIN connector)
 CV 720 N (C) (with XLR connector)

Every amplifier handle features a built-in, switch-controlled 10 dB attenuator for picking up very high audio levels. This attenuator is effective in the whole frequency range. A roll-off filter can also be switched into the circuit for eliminating low-frequency noise as well as the well-known close-talking effect.

The amplifier handle CV 720 can be directly connected to all phantom power sources supplying between 8 V and 52 V (only units built in 1984 or later).

Specifications	CV 710	CV 720
Supply voltage:	48 ⁺⁶ ₋₄ V	12 ⁺¹ ₋₄ V (8-52 V)
Current consumption:	0.4 mA	≤ 3.5 mA

CK 701

MC 711 (CK 701 + CV 710)

MC 721 (CK 701 + CV 720)



CK 702

MC 712 (CK 702 + CV 710)

MC 722 (CK 702 + CV 720)



Studio-quality condenser microphone. Omnidirectional characteristic.

High-quality condenser microphone with largely frequency-independent omnidirectional characteristic. High frequency boost, CK 702 with elastic cartridge suspension and built-in wind/popscreen.

Specifications

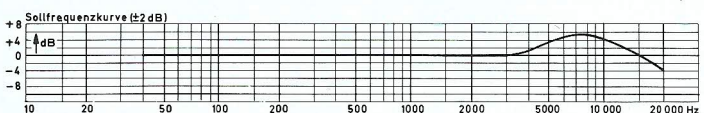
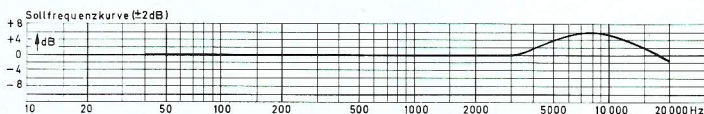
Transducer type:	Condenser	
Frequency response:	40 - 20 000 Hz	
Polar pattern:	Omnidirectional	
Open circuit voltage at 1 kHz:	8 mV/Pa	
Output level:	- 41 dB (0 dB ≙ 1 mW/Pa)	
EIA G _m output:	- 134 dB (0 dB ≙ 1 mW/2 · 10 ⁻⁵ Pa)	
Nominal output impedance:	200 Ω	
Load impedance:	≥ 1000 Ω	

	MC 711/MC 712	MC 721/MC 722
Max. SPL for 0.5% THD:	120 dB	120 dB
with pre-attenuation:	130 dB	130 dB
Weighted noise voltage:	3.6 μV	2.96 μV
Signal-to-noise ratio:	67 dB	69 dB

"A" weighted equivalent SPL: 20 dB 18 dB
 Temperature range: -10°C ... +70°C

Dimensions

	MC 711/MC 712	MC 721/MC 722
Length:	155 mm	174 mm
Shaft diameter:	19.2 mm	19.2 mm
Head diameter:	19.2 mm	26.5 mm
Weight:	approx. 115 g	approx. 140 g



STUDIO CONDENSER MICROPHONES MCM System

CK 703

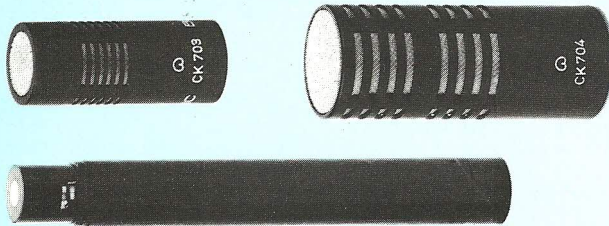
MC 713 (CK 703 + CV 710)

MC 723 (CK 703 + CV 720)

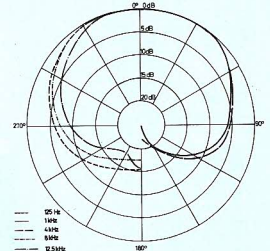
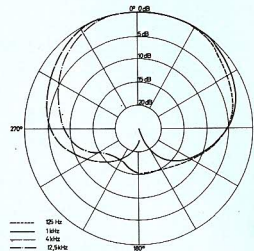
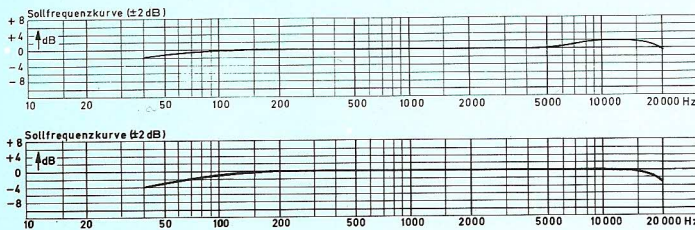
CK 704

MC 714 (CK 704 + CV 710)

MC 724 (CK 704 + CV 720)



Studio-type condenser microphone.
Cardioid characteristic.
High-quality, directional condenser microphone with nearly frequency-independent directional pattern. Very low feedback. CK 704 with elastic cartridge suspension and built-in wind/popscreen.



Technical specifications

Transducer type: Condenser
 Frequency response: 40 - 20 000 Hz
 Polar pattern: Cardioid
 Attenuation at 180°, 1 kHz: > 20 dB
 Open circuit voltage at 1 kHz: 10 mV/Pa
 Output level: - 39 dB (0 dB \triangleq 1 mW/Pa)
 EIA G_m output: - 132 dB (0 dB \triangleq 1 mW/2 · 10⁻⁵ Pa)
 Nominal output impedance: 200 Ω
 Load impedance: \geq 1000 Ω

	MC 713/MC 714	MC 723/MC 724
Max. SPL for 0.5% THD:	120 dB	120 dB
with pre-attenuation:	130 dB	130 dB
Weighted noise voltage:	3.6 μ V	2.96 μ V
Signal-to-noise ratio:	69 dB	71 dB
"A" weighted equivalent SPL:	18 dB	16 dB
Temperature range:	-10°C ... + 70°C	

Dimensions

	MC 713/MC 714	MC 723/MC 724
Length:	165 mm	184 mm
Shaft diameter:	19.2 mm	19.2 mm
Head diameter:	19.2 mm	26.5 mm
Weight:	approx. 125 g	approx. 145 g

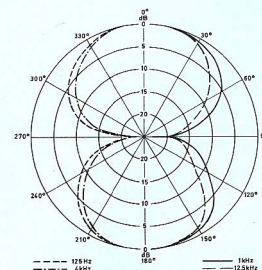
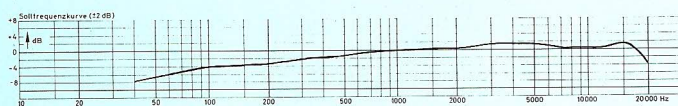
CK 708

MC 718 (CK 708 + CV 710)

MC 728 (CK 708 + CV 720)



Studio-type condenser microphone.
Bidirectional characteristic.
High-quality directional condenser microphone. Frequency-independent directional pattern. Elastic system suspension. For solving special pickup problems in studio applications.



Technical specifications

Transducer type: Condenser
 Frequency response: 40 - 20 000 Hz
 Polar pattern: Figure-eight
 Side attenuation at 90°, 1 kHz: > 25 dB
 Open circuit voltage at 1 kHz: 10 mV/Pa
 Output level: - 39 dB (0 dB \triangleq 1 mW/Pa)
 EIA G_m output: - 132 dB (0 dB \triangleq 1 mW/2 · 10⁻⁵ Pa)
 Nominal output impedance: 200 Ω
 Load impedance: \geq 1000 Ω

	MC 718	MC 728
Max. SPL for 0.5% THD:	120 dB	120 dB
with pre-attenuation:	130 dB	130 dB
Weighted noise voltage:	3.6 μ V	2.96 μ V
Signal-to-noise ratio:	69 dB	71 dB
"A" weighted equivalent SPL:	18 dB	16 dB
Temperature range:	-10°C ... + 70°C	

Dimensions

Length:	199 mm
Shaft diameter:	19.2 mm
Head diameter:	36 mm
Head length:	82 mm
Weight:	approx. 215 g