

C 391 B / SE 300 B

BEDIENUNGSANLEITUNG 2
Bitte vor Inbetriebnahme des Gerätes lesen!

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Please read the manual before using the equipment!

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1 Safety and Environment



ATTENTION

Risk of damage

Please make sure that the piece of equipment your microphone will be connected to fulfills the safety regulations in force in your country and is fitted with a ground lead.

Environment

- 1) Remove the housing, electronics and cables before scrapping the equipment and dispose of all components in accordance with local waste disposal regulations.
- 2) The packaging can be recycled. Dispose of the packaging in a suitable collection system.

2 Description

Introduction

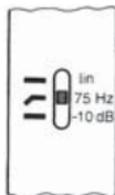
The C 391 B is a complete system that can be adapted in a very practical and low-cost manner to match the ever-changing requirements of the recording, broadcasting, sound reinforcement and film industries. The sound engineer can choose from a range of microphone modules that can be mixed and matched to create customised studio-quality microphones for every conceivable application.

Scope of supply

- SE 300 B powering/output module
- CK 91 microphone capsule with frequency-independent, cardioid polar pattern
- W 90 foam wind guard
- SA 60 universal tripod connector

Special features

- Robust design
- Minimal self noise
- Low power consumption
- Extremely reliable
- Low-impedance capsule connection
- Works without any problems up to 60°C and 95% relative humidity
- Integrated, switchable 10 dB attenuation of gain (see fig.)
- Extremely durable
- Transformerless output stage
- Can be powered by any phantom powering device that complies with IEC 61938
- Low distortion, even at high sound pressure levels
- Integrated bass filter with onset at approx. 100 Hz (see fig.)



Optional accessories

A 91: Articulated joint with swivel range of $\pm 90^\circ$ from the microphone axis

B 18: Battery power supply for one microphone

H 30: Elastic suspension with very effective insulation

ST 45: Small table tripod

ST 46: Small table tripod for the fitted capsules

ST 305: Large table tripod with circular base and rubber lining to dampen structure-borne noise

Description

Summary

The C 391 B system consists of a universal powering/output module (SE 300 B), several microphone capsules and readily-interchangeable accessories to suit all types of application.

The microphone is virtually unaffected by handling noise due to its lightweight diaphragm. Additional features include the all-metal housing, which makes it less susceptible to HF interference, as well as its trouble-free operation in almost all situations due to its conservative and reliable design.

The switchable 10 dB attenuation of the output signal is a major benefit at high sound pressure levels (i.e. high-powered sound sources) and when the input stages of amplifiers or mixing desks have lower maximum input levels. If this option was not available, these connected stages would be overamplified without being able to fully control the microphone.

The switchable bass cut filter of the microphone also helps to suppress low-frequency distortion, such as rumble or wind noises, that cannot be controlled. The filter slope is approx. 12 dB/octave with the corner frequency (-3 dB point) lying at approx. 75 Hz.



3 Application

Introduction

The capsules are connected to the powering/output module by a simple bayonet mounting system. This allows the various capsules to be switched reliably, quickly and easily, even when they cannot be seen (e.g. in darkened rooms).

The capsules and accessories can only be connected to the powering module in one position. A short, sharp twist to the right (listen out for a distinct "click") will secure the module in position (see fig.).

The capsule is removed just as easily with a short twist to the left.

Our modules and system accessories are designed for use in a whole range of user-specific applications. A brief selection of these are listed below.



CK 91 - Cardioid microphone capsule

Classic microphone capsule with a cardioid polar pattern. Suitable for all applications where good sound attenuation (180°) is required.

CK 92 - Omnidirectional microphone capsule

Microphone with spherical polar pattern for use during live commentaries or for choir and solo performer recordings in either a recording or television studio. The capsule has no distance-dependent frequency curve (proximity effect) - normally an advantage in the applications mentioned above.

Application

CK 93 - Hypercardioid microphone capsule

Similar to the CK 91 in design, but acoustically the CK 93 capsule provides a uniform hypercardioid polar pattern. The result is a higher front-to-random factor than with cardioid microphone capsules. This offers the advantage of better side separation in multi-channel recording work and increased feedback protection in sound reinforcement applications.

CK 94 - Figure-eight microphone capsule

This microphone capsule provides exceptionally good suppression of off-axis sounds and is consequently well-suited for interviews or recording dramas. The CK 94 can be used as part of an M/S combination in conjunction with a second microphone with a cardioid, hypercardioid or omnidirectional polar pattern.

CK 97C - Miniature cardioid microphone capsule

This miniature microphone can be used in any situation where the microphone must be as inconspicuous as possible, or even hidden completely out of sight. The microphone polar pattern ensures that recordings are free from overemphasised auditory source width and that sound reinforcement work can be completed with good feedback protection.

CK 98 - Short shotgun capsule

This shotgun capsule represents a good compromise between the tube length and the resulting directivity. The capsule is best suited for sound recordings in the film and television industries, as well as for on-stage and outdoor applications. It can also be used anywhere where clear separation between individual instruments is needed without additional acoustic partitions.



4 Cleaning

Microphone

- Use a soft cloth moistened with water to clean the surface of the microphone body.

Windscreen

- Wash the foam windscreen in soap suds. Do not use the windscreen before it has dried completely.

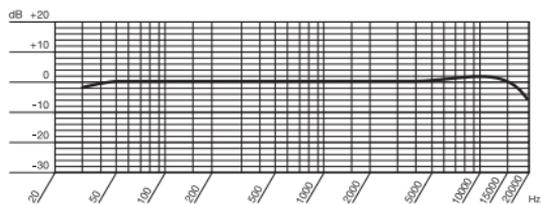
5 Specifications

Electrical working principle:	Condenser microphone, self-polarised
Acoustic working principle:	Pressure gradient receiver
Polar pattern:	Cardioid
Frequency range:	20 to 20,000 Hz \pm 2 dB from nominal frequency curve
Field open loop gain (sensitivity) at 100 Hz:	10 mV/Pa - 40 dBV in re. to 1V/Pa
Electrical impedance:	\leq 200 Ohm
Recommended load impedance:	\geq 1000 Ohm
Equivalent sound pressure level acc. to IEC 60268-4 (A-weighted):	17 dB-A
S/N ratio in re. to 1 Pa (A-weighted):	77 dB
Sound pressure limit:	80 Pa (132 dB) for 1000 Hz
Operating conditions:	- Temperature: -20°C to +60°C - Relative humidity: 99% (+20°C), 95% (+60°C)
Supply voltage:	9 to 52 V phantom power acc. to IEC 61938
Current consumption:	\leq 2 mA
Connector:	Type XLR-3 acc. to IEC
External dimensions:	19 mm \varnothing x 147 mm
Weight:	approx. 115 g, net
Housing material:	Brass
Housing surface:	Mat grey

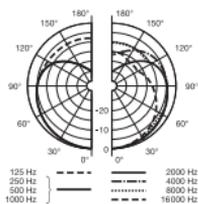
This product conforms to the standards listed in the Declaration of Conformity. To order a free copy of the Declaration of Conformity, visit <http://www.akg.com> or contact sales@akg.com.



Frequency Response Curve



Polar Pattern



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