

Condenser microphones of the M 221 B - series are proven small microphones for studios. Their extraordinarily good electroacoustic properties ensure for them a wide range of application in sound recording of radio, television, the record and film industry as well as in broadcasting plants.

The special characteristic of this model series is the use of a uniform microphone preamplifier M 221 B, which according to choice can be worked with different microphone capsules. In order to meet all requirements of sound recording, a comprehensive program of capsule types with different properties is available.

The microphones are very constant and uniform in their technical values. The accurate behaviour in high heat (+ 80° C) and at high air humidity is constantly checked and is therefore ensured.

The microphone amplifier contains all amplifier elements. A tube of type AC 701 (Telefunken) is used. By means of a very effective feed-back circuit, its working point is stabilised and the slight-non-linear distortion factor of the amplifier is held down to the lowest frequencies of the range.

The tube is soldered into the circuit. The customer himself should exchange this tube only if he has sufficient experience in such work and then only with the corresponding small tool because of the small design of the microphone. The amplifier, which is built onto the base plug can be drawn out of its housing for servicing after screwing in the screws provided on the plug end.

The microphone output is usually connected for a source impedance of 200 ohms. If required, delivery can be effected with an output impedance of 50 ohms, the output level being then 6 dB lower. The 200 ohm model is characterised by a blue mark at the lower end (plug side) of the casing, the 50 ohm model is characterised by a red point.

The microphone amplifier is provided with a 6 pole plug connection (T 3402, Tuchel).

The microphones are insensitive to low frequency magnetic fields because of the twin-leg output transformer design. Corresponding means are provided in the microphone amplifier to reduce interfering influences of external high frequency fields.

RF-Proof Design M 221 BH

In very strong RF-fields, such as occur in the immediate vicinity of very large transmitting or radar plants, it is recommended that a microphone amplifier M 221 BH be used. On this amplifier, the optional use of the same microphone capsules is possible as on the standard design M 221 B. The technical details of both amplifiers are likewise the same. However, the RF-proof model is provided with another plug (T 3470, Tuchel) of larger diameter.

Dimensions and Weights

Microphone amplifier M 221 B without capsule:

Diameter	20 mm
Length	107 mm
Weight	83 g

Microphone amplifier M 221 BH without capsule:

Diameter	20 mm
Footpiece	25 mm
Length	122 mm
Weight	135 g