

MM 1

Measurement Microphone

Order # 449.350



FEATURES

- Linear frequency response in the diffuse field / under 90°
- Omnidirectional polar pattern
- Calibrated open circuit voltage
- Narrow tubular construction

TECHNICAL SPECIFICATIONS

Transducer type Condenser (back electret)
Operating principle Pressure
Frequency response 20 - 20,000 Hz
(50 - 16,000 Hz \pm 1.5 dB)
Polar pattern Omnidirectional,
diffuse field calibrated
Open circuit voltage at 1 kHz 15 mV/Pa (= -36.5 dBV) \pm 1 dB
Nominal impedance 160 Ω
Nominal load impedance \geq 2.2 k Ω
Max. SPL at f = 1 kHz, k = 1%,
R_L = 2.2 k Ω 122 dB_{SPL}
S/N ratio rel. to 1 Pa > 57 dB
A-weighted equivalent SPL approx. 26 dB(A)
Power supply 12 - 48 V phantom supply
Current consumption approx. 1.9 mA
Output electronically balanced
Connection 3-pin XLR male
Dimensions:
Length 133 mm
Shaft diameter 19/9 mm
Head diameter 9 mm
Weight (w/out cable) 88 g

APPLICATIONS

The MM 1 is a measurement microphone which has been designed specifically for measuring sound reinforcement and PA-systems. It is designed to work with spectrum analysers for measuring frequency response and sound pressure levels of loud speaker systems. The MM 1 is the ideal microphone for the measurement of audio signals in the research, development, for reverberation testings and other applications.

The narrow tubular construction ensures that the microphone has negligible influence on the sound field so that an increase in sound pressure is avoided with high frequencies. A natural reproduction is achieved due to the linear frequency response.

OPTIONAL ACCESSORIES

GST 400	Microphone stand, 3/8", height 0.90 - 1.65 m, with G 400 boom.	Order # 421.294
GST 500	Microphone stand, 3/8", height 0.85 - 1.60 m, with telescopic G 500 boom.	Order # 406.252
ST 400	Microphone stand, 3/8", height 0.90 - 1.65 mm	Order # 421.286
ST 500	Microphone stand, 3/8", height 0.85 - 1.60 mm	Order # 406.643
WS 10	Wind shield, charcoal grey	Order # 403.008

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FREQUENCY RESPONSE & POLAR PATTERN

This polar pattern and frequency response curve (measuring tolerance ± 1.5 dB) correspond to a typical production sample for this microphone. Each microphone is supplied with an individual 0° frequency response curve. Measured data can be requested via the following link: www.beyerdynamic.com/mm1-register

