

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. When sending a request to proaudio@beyerdynamic.de, the measured data can be sent via e-mail.

