



MM 1

MEASUREMENT MICROPHONE

Order # 449.350

FEATURES

- Linear frequency response
- Omnidirectional polar pattern
- Calibrated open circuit voltage
- Narrow tubular construction

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.

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 (\approx -36.5 dBV) \pm 1 dB
Nominal impedance	330 Ω
Nominal load impedance	\geq 2.2 k Ω
Max. SPL at f = 1 kHz, k = 1%, R _L = 2.2 k Ω	128 dB _{SPL}
S/N ratio rel. to 1 Pa	> 57 dB
A-weighted equivalent SPL	approx. 28 dB(A)
Power supply	12 - 48 V phantom supply
Current consumption	approx. 3.4 mA
Output	transformer 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

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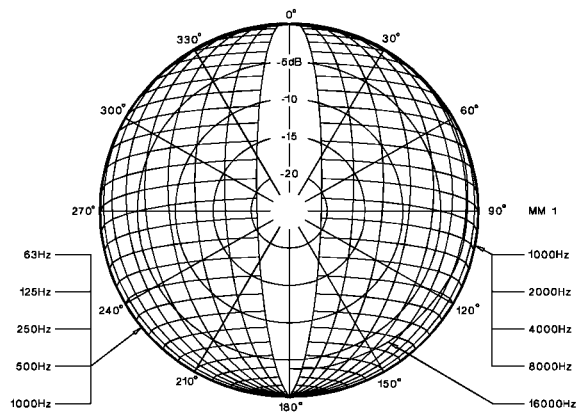
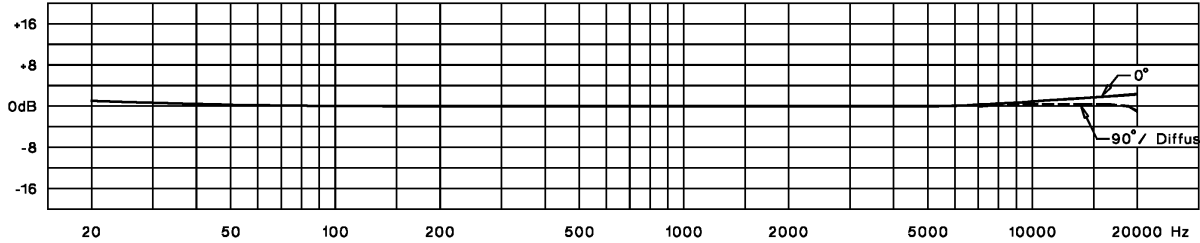


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FREQUENCY RESPONSE & POLAR PATTERN

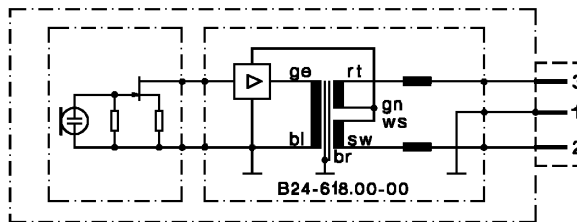
This polar pattern and frequency response curve (measuring tolerance ± 1.5 dB) correspond to typical production run specifications for this microphone.

Frequency response ± 1.5 dB 0 dB $\hat{=}$ 15 mV/Pa MM 1



WIRING DIAGRAM

MM 1



SUPPLIED ACCESSORIES

- Black, padded protective zipper bag

OPTIONAL ACCESSORIES

- Highly flexible cables with industry standard jack and/or XLR connectors
- 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
- ZWS 10 Windscreen, charcoal grey Order # 403.008

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