MICROTECH GEFELL

microphones & acoustic systems - founded 1928 by Georg Neumann

MKS 231 E

1/2“
Microphone Capsule

for random incidence sound field

- WS2D acc. IEC 61094-4
- random incidence
- 3,5 Hz to 20 kHz
- 15 dBA to 146 dB
- prepolarized

The 1/2“ measurement microphone capsule MKS 231 E has a random incidence response for correct measurements in diffuse and reverberant sound fields or in acoustic couplers. The protection grid can be replaced by a protection grid with an integrated electrostatic actuator for calibration.

The equalization of the static air pressure between the inside and outside of the microphone capsule is by means of a capillary to the preamplifier (rear-venting). The measurement microphone capsule MKS 231 E is designed for sound level meters of Type 1 according to IEC 61672.

Delivery

in wooden case 90 mm x 90 mm x 40 mm

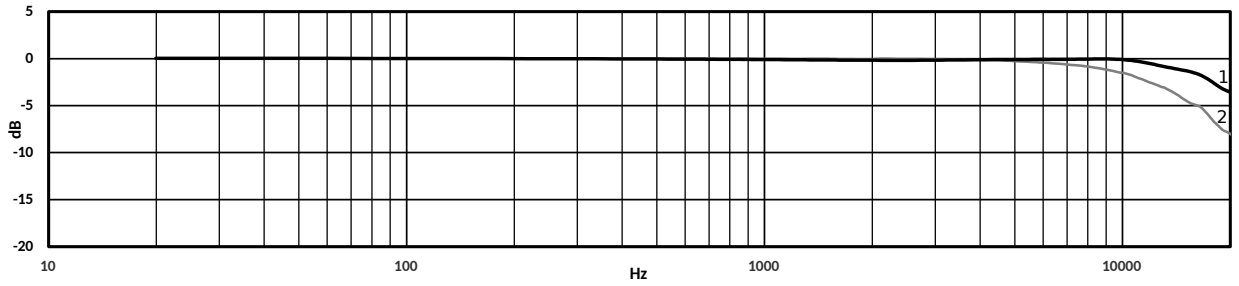
stainless steel	order number: 311148

Accessories

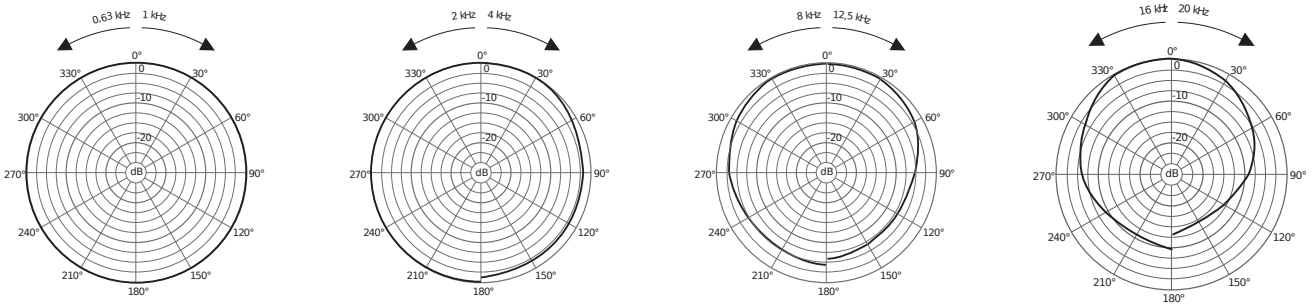
Dehumidifier adapter 1/2“	TA 202	order number: 302314
Angle adapter 1/2“	WA 20	order number: 302334
Windscreen	W 2	order number: 302329

Technical Specifications

Transducer type		Capacitive pressure transducer
Sensitivity		50 mV/Pa
Sensitivity	re 1 V/Pa	-26 dB ±2.5 dB
Frequency range random incidence	±2.0 dB	3.5 Hz bis 16 kHz
Frequency range pressure response	±1.0 dB	10 Hz bis 8 kHz
Max. SPL for 3% THD at 1 kHz	with MV 204	146 dB
Inherent noise	with MV 204	15 dBA
Polarization voltage		0 V
Capacitance at 1 kHz		16 pF
Temperature range, operation		-50 °C to +100 °C
Temperature coefficient		≤0.01 dB/K
Static pressure coefficient		-0.00001 dB/Pa
Diameter	without protection grid with protection grid	12.7 mm ± 0.05 mm 13.2 mm ± 0.05 mm
Length		16.4 mm
Weight		7.5 g
Preamplifier thread		11.7 mm 60 UNS
Protection grid thread		12.7 mm 60 UNS



Typical frequency response: 1 random incidence, 2 pressure response



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