

M 250 ○

STUDIO CONDENSER MICROPHONE

with
Phantom powering P 48 V

- Small diaphragm capsule
- Metal diaphragm
- Pressure transducer
- Free field equalization
- Transformerless

The M 250 is a studio condenser microphone based on the MK250 measurement capsule and the MV 220.S phantom powered pre-amplifier body.

The finish of the M 250 is dark bronze and it is delivered complete with KA 3 and KA 4 APE balls and microphone clip in a wooden box.

It is identical in specifications (and looks) to the M 221 microphone but with a pre-polarised capsule - this makes it less prone to humidity problems as it does not require a high biasing voltage. It is also shielded against electrical and magnetic fields.



MK 250

1/2" Microphone Capsule

for free-field application

- WS2F acc. IEC 61094-4
- free-field
- 3,5 Hz to 20 kHz
- 15 dBA to 149 dB
- prepolarized



The 1/2" microphone capsule MK 250 has a free-field response and is therefore optimized for correct acoustic measurements under free-field conditions with 0 degree incidence.

The equalization of the static air pressure is by means of a capillary to the preamplifier (rear-vented). The microphone capsule is suitable for sound level meters of Type 1 acc. IEC 61672.

Delivery

Microphone capsule, nickel in wooden case 90 mm x 90 mm x 40 mm	MK 250	311122
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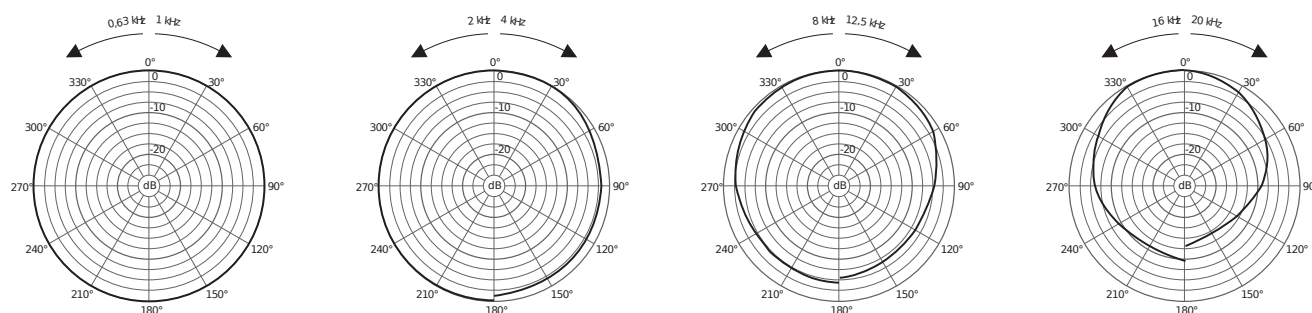
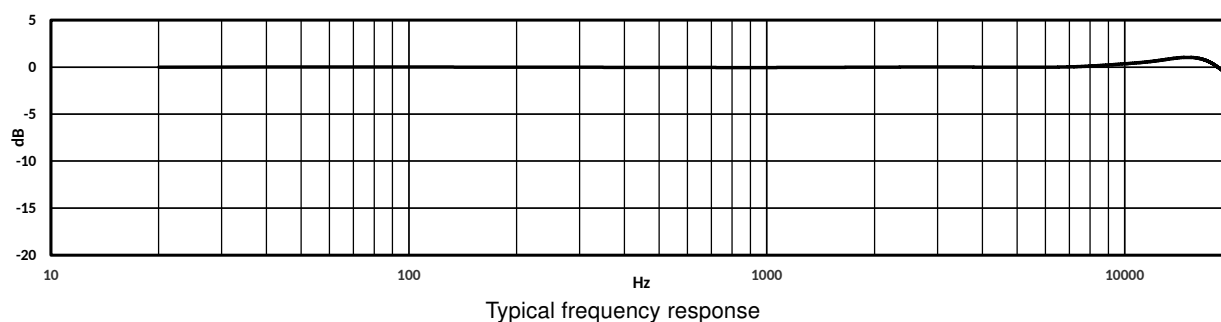
Options and Accessories

Electrostatic actuator instead of standard protection grid	EA 2	302365
Adapter for 1/2" microphone capsules to 1/4" preamplifiers	A 69	302304
Angle adapter 1/2"	WA 20	302334
Dehumidifier adapter 1/2"	TA 202	302314
Windscreen	W 2	302329
Accredited calibration	MM-PK-LD Pistonfon	450003

Technical Specifications



Transducer type	Capacitive pressure transducer	
Frequency range	± 2.0 dB	3.5 Hz to 20 kHz
zero degree incidence		
Open-circuit sensitivity		50 mV/Pa
Open-circuit sensitivity	re 1 V/Pa	-26 dB ± 1.5 dB
Max. SPL for	Peak, with MV 204 @ 120 V	149 dB
3% THD at 1 kHz	RMS, with MV 204 @ 120 V	146 dB
Inherent noise	with MV 204	15 dBA
Polarization voltage		0 V
Capacitance at 1 kHz		17 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	12.7 mm ± 0.05 mm
	with protection grid	13.2 mm ± 0.05 mm
Length		16.4 mm
Weight		9 g
Preamplifier thread		11.7 mm 60 UNS
Protection grid thread		12.7 mm 60 UNS



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1/2" Messmikrofonvorverstärker MV 220.S P48

48 Volt - Phantomgespeicher Messmikrofonvorverstärker für Elektret-Kondensatormikrofonkapseln

Mit dem 1/2" Messmikrofonvorverstärker MV 220.S P48 wird die Möglichkeit geschaffen, bauartgeprüfte Messmikrofonkapseln mit Dauerpolarisation, z.B. MK 250, an in der Studiomesstechnik übliche symmetrische Eingänge, insbesondere solche mit 48 Volt Phantomspeisung, direkt anzuschalten. Dabei ist es möglich, annähernd den ganzen Dynamikbereich der Messmikrofonkapsel zu nutzen.

Aufzeichnungsgeräte mit Phantomspeisung ohne Signalkonditionierung können als preiswerten Datenspeicher für die Messtechnik eingesetzt werden. Weitere Einsatzmöglichkeiten sind Lautsprechermessungen und das Einmessen von akustischen Anlagen in Konzertsälen oder auch im Freien.

Ein wesentlicher Vorteil des Mikrofons ist, dass das Zubehör der 1/2" Kapsel wie Windschutz, Nasenkonus, Trockenadapter usw. verwendet werden kann. Der Messmikrofonvorverstärker MV 220.S P48 wird mit dem Mikrofonhalter MH 93 zur Befestigung an Stativen oder Tischständern geliefert.

1/2" Measuring Microphone Preamplifier MV 220.S P48

48 volts - Phantom powered measuring microphone preamplifier for electret condenser microphone capsules

The 1/2" measuring microphone preamplifier MV 220.S P48 enables direct powering of "style of construction qualified" measuring microphone capsules with permanent polarisation, e.g. MK 250, by balanced inputs usual for studio technique, specially 48 volts phantom powering. Nearly the entire dynamic range of the measuring microphone capsule can be used.

Recorder with phantom powering without signal conditioner can be used as low cost data memory for measuring technique applications. Further applications are loudspeaker measurements and set up of acoustic equipment in concert halls or also outside.

A significant advantage of the microphone is that the accessories of the 1/2" capsule are applicable, e.g. windscreen, nose cone, dehumidifier and so on. The microphone preamplifier MV 220.S P48 is available with the microphone holder MH 93 for mounting on tripods or table stands.

CE Zertifikat

Stromaufnahme / Current consumption P48, DIN 45596, IEC 268-15	4 mA
Frequenzbereich / Frequency range	20 Hz ... 100 kHz: $\leq -0,6$ dB
Verstärkung / Gain, $R_L = 1$ k Ω	- 1,07 dB
Verstärkung / Gain, $R_L = 1$ k Ω und $C_{ers} = 22$ pF	- 1,54 dB
Eingangsimpedanz / Input impedance	10 G Ω $< 0,4$ pF
Ausgangsimpedanz / Output impedance	100 Ω
Ausgangsspannung / Output voltage, K = 0,5%	$\geq 5,0$ V _{eff}
Eigenrauschen / Inherent noise,	
A bewertet / A-weighted, $R_L = 1$ k Ω , C = 22 pF	$\leq 1,3$ μ V _{eff}
linear $R_L = 1$ k Ω , C = 22 pF	$\leq 3,0$ μ V _{eff}
Kabel / Cable	2m Gotham GAC 2 mit XLR-Stecker / with 3 pin XLR-connector
Abmessungen / Dimensions (L x Ø)	158 x 12,7/21 mm
Gewicht / Weight	107 g

Lieferumfang / Delivery:

Messmikrofonvorverstärker MV 220.S P48 mit Mikrofonhalter

MH 93 im Holzetui L x B x H 275 x 90 x 70 mm

Measuring microphone preamplifier MV 220.S P48 with microphone holder MH 93 in a wooden case

Best. Nr. / Order-No. 311220