



MV 240

1/2" Microphone Preamplifier

with integrated analog-to-digital converter

- USB interface (4-pin LEMO®)
- power supply via USB
- capsule polarisation voltage:
internally generated (200 V)
- 1 Hz to 80 kHz
- 7 dBA to 160 dB



The 1/2" measurement microphone pre-amplifier type MV 240 combines a high-impedance transducer with an analog-to-digital converter. The output signal of the measurement microphone capsule is optimally adjusted to the dynamic range of the analog-to-digital converter by an impedance converter and a pre-amplifier with a very low noise level and THD. One channel of a 24 bit analog-to-digital converter converts the lower level range of the capsule signal and the other channel the upper level range.

A following processor combines these two level ranges to the one-channel 32 bit output signal, that represents calibrated sound pressure levels. For the use of the MV 240 no special hardware driver is necessary because it is detected automatically by the operating system and can be used with Windows, MacOS and Linux. The MV 240 is powered by the USB interface and generates internally 200 V polarisation voltage for the measurement microphone capsule that can be switched off when using electret measurement microphone capsules.

Delivery

in wooden case 275 mm x 90 mm x 70 mm

satin nickel

order number: 311222

Product Overview



Accessories

Adapter for 1/4" microphone capsules to 1/2" pre-amplifiers	A 67	order number: 302305
Adapter for 1" microphone capsules to 1/2" pre-amplifiers	A 63.1	order number: 302302
Measurement capacitor for 1/2" microphone capsules	K 65	order number: 302307
Dehumidifier adapter 1/2"	TA 202	order number: 302314
Angle adapter 1/2"	WA 20	order number: 302334
Microphone holder, turnable	MH 93	order number: 202325

Technical Specifications

Analog-to-digital converter	Sigma-Delta converter, 24 Bit, 192 kHz
Output signal	2 level ranges USB, 1 channel, 32 Bit calibrated sound pressure values
Power supply	5 V ($\pm 5\%$)
Current consumption	500 mA (at $U_i = 10$ Vrms)
Frequency range	1 Hz to 80 kHz
Inherent noise	A-weighted 7 dB
Max. SPL	160 dB
Maximum input	10 Vrms
Input impedance	20 GOhm; 0.2 pF
Sample rate	192 kHz
Polarization voltage	200 V
Remote control	polarisation voltage on / off
Connection to	USB 2.0 / USB 3.0
Plug	4-pin LEMO® EGG.9B.304.CLL
Capsule thread	11.7 mm 60 UNS
Diameter	12.7 mm / 21 mm
Length	184 mm
Weight	115 g

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