

Operating Manual

NTM 221

made by **elvo** exclusively for the



M 221B Tube Microphone

Features:

- High quality power supply with audio filter and attenuator
- Electronically stabilized voltages for filament and anode
- Ultra low noise and maximum output capability
- For the original SCHOEPS M 221 B Tube Microphone
- Frequency range: 10 - 30,000 Hz (measured with SCHOEPS omni MK 22)
- FILTER (switchable): 150 Hz (6 dB/oct) may compensate proximity effect
- Gold-plated contacts on all signal switches
- LED "ON" indicator
- AC mains 220 V or 110 V, 3 VA, internally selected
- Input : XLR 5 (gold-plated), balanced
- Output : XLR 3 (gold-plated), balanced, impedance 200 Ω
- Cables up to 100 m and/or unbalanced operation are possible without loss of level
- Robust construction (metal case)
- Complete set with special cable to the M 221 B, 5 m, 100% shielded, flexible even at low temperatures, low capacitance



The famous M 221 B family

(For more detailed information about the M221B and its capsules
please visit www.m221.de)

Supplied equipment:

Power supply NTM 221
Microphone cable KS 5 TU
This manual

Installation:

Please ensure that your mains (AC) voltage corresponds to the value marked on the rear panel of your NTM 221.

WARNING: Never open the case when the unit is connected to mains (AC power). Severe injury may occur due to electrical shock. If there are any doubts concerning the functioning unit, always pull out the mains plug first. Before opening, wait at least 20 minutes. Never connect any microphone other than the M 221 B. Even if the plug fits, severe damage may occur to both power supply and microphone.

Connect your tube microphone M 221 B via the included microphone cable to the NTM 221. Switch off phantom power at the input of your recording equipment, if possible.

ATT. -10dB:

The tube microphone M 221 B accepts very high sound pressure levels. This could overload your mixing console's input. Switching on "ATT. -10dB" will reduce the output level without affecting the maximum sound pressure.

CUT 150 Hz:

This filter compensates for the proximity effect of pressure-gradient transducers or eliminates infrasonic signals caused by mild wind. It cuts off frequencies below 150 Hz at a slope of 6 dB/oct. The exact corner frequency depends on the input impedance of the equipment to which the signal is connected. With the "CUT 150 Hz" switched OFF the frequency response will reach from 10 Hz to 30 kHz (depending on the capsule type).

UNBALANCED OPERATION:

A reduction in signal level may occur if your NTM 221 power supply is connected to an unbalanced input. You can avoid this by connecting pin 3 of your output cable's XLR-3 plug connector to ground (pin 1). Note that this connection should be made at the input to the mixer or preamp to which the NTM 221's output is connected, not at the power supply itself. If possible, however, it is always preferable to use balanced connections for best common mode rejection (suppression of induced electromagnetic interference).

For indoor use only. Always keep dry. Subject to change without notice.