



► TLM 107

BEDIENUNGSANLEITUNG	2
OPERATING MANUAL	6





7. Troubleshooting

Problem	► Possible causes	► Solution
Microphone not operating	The phantom power supply voltage is not switched on at the mixing console or at the power supply equipment (LEDs not lit up).	Check the corresponding channel settings
	The power supply equipment is not connected to the power supply line or there is no battery	Check the connection to the power supply line or check the battery of the power supply equipment
No signal transmission	The microphone is not connected to the correct microphone amplifier input of the subsequent equipment	Check the signal path
		If necessary, activate the appropriate input on the corresponding channel of the mixing console
Distorted sound	Incorrect input sensitivity or gain setting of subsequent amplifier	Decrease the input sensitivity or gain of the subsequent amplifier so as to provide sufficient headroom
	Wind effects	Use an appropriate windscreen (accessory)
	Plosives	Use an appropriate popscreen (accessory)
	Transmission of structure-borne noise	Use a suitable elastic suspension (accessory)
Sound is muffled and reverberant	Incorrect directional characteristic	Check to ensure that the microphone is being addressed from the correct side, as designated by the Neumann logo.

8. Technical data and connector assignments

Permissible atmospheric conditions¹⁾

Operating temperature range..... 0 °C to +70 °C

Storage temperature range..... -20 °C to +70 °C

Humidity range..... 0 % to 90 % at +20 °C
0 % ... 85 % at +60 °C

Acoustical op. principle..... Pressure gradient transducer

Directional pattern..... Omnidirectional, wide angle cardioid, cardioid, hypercardioid, figure-8

Frequency range..... 20 Hz to 20 kHz

Sensitivity²⁾ 11 mV/Pa

Rated impedance..... 50 ohms

Rated load impedance 1000 ohms

Signal-to-noise ratio³⁾, CCIR⁴⁾ 72 dB

Signal-to-noise ratio³⁾, A-weighted⁴⁾ 84 dB

Equivalent noise level, CCIR⁴⁾ 22 dB

Equivalent noise level, A-weighted⁴⁾ 10 dB-A

Max. SPL³⁾ for THD < 0.5 % 141 dB

with preattenuation -6 dB 147 dB

with preattenuation -12 dB 153 dB

Max. output voltage for THD > 0.5 % 10 dBu

Power Supply P48⁴⁾

Current consumption 3.2 mA

Required connectors..... XLR 3 F

Weight 445 g

Dimensions Ø 64 x 145 mm

94 dB SPL equiv. to 1 Pa = 10 µbar

0 dB equiv. to 20 µPa



The microphone has a balanced, transformerless output. The 3-pin XLR connector has the following standardized pin assignments:

Pin 1: 0 V/Ground

Pin 2: Modulation (+phase)

Pin 3: Modulation (–phase)

For operation with unbalanced inputs, pin 2 is the signal-bearing contact.

9. Selected Accessories* (see photos in appendix)

Elastic Suspensions

EA 4niCat. No. 008641

EA 4 bkblkCat. No. 008642

Auditorium Hanger

MNV 87niCat. No. 006804

MNV 87 mtblkCat. No. 006806

Stand Mounts, Misc. Mechanical Adapters

DS 120blkCat. No. 007343

SG 2blkCat. No. 008636

Table and Floor Stands

MF 4blkCat. No. 007337

MF 5gryCat. No. 008489

STV 4blkCat. No. 006190

STV 20blkCat. No. 006187

STV 40blkCat. No. 006188

STV 60blkCat. No. 006189

Popscreens

PS 15blkCat. No. 008472

PS 20 ablkCat. No. 008488

Foam Windscreens

WS 47blkCat. No. 006826

Battery Supply

BS 48 iblkCat. No. 006494

BS 48 i-2blkCat. No. 006496

Power Supply**

N 248blkCat. No. 008537

Connecting Cables

IC 3 mtblkCat. No. 006543

IC 4niCat. No. 006547

IC 4 mtblkCat. No. 006557

Meaning of color codes:

ni = nickel, blk = black, gry = grey

¹⁾ All values are for non-condensing humidity.
The values are valid for clean and well-looked-after microphones or microphone capsules, respectively. Any kind of pollution of capsules and membranes may restrict the said values.

²⁾ at 1 kHz into 1 kohm rated load impedance.

³⁾ re 94 dB SPL

⁴⁾ according to IEC 60268-1;
CCIR-weighting according to CCIR 468-3, quasi peak;
A-weighting according to IEC 61672-1, RMS

⁵⁾ THD of microphone amplifier at an input voltage equivalent to the capsule output at the specified SPL.

⁶⁾ according to IEC 61938

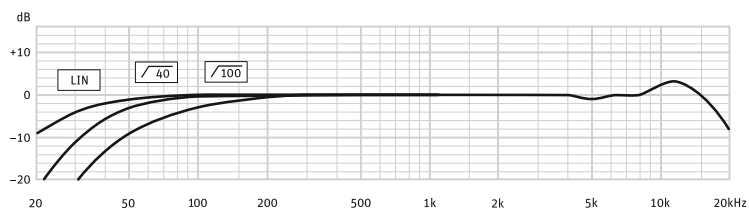
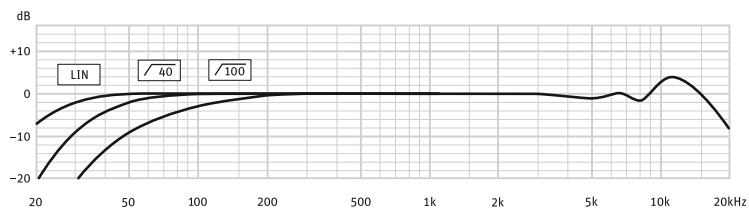
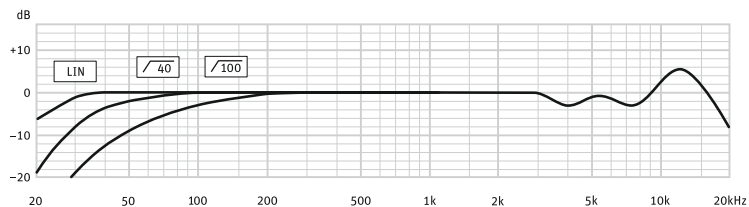
* Detailed descriptions and additional articles can be found in our accessories catalog or at: www.neumann.com

** Only phantom power supply, no remote control for directional pattern

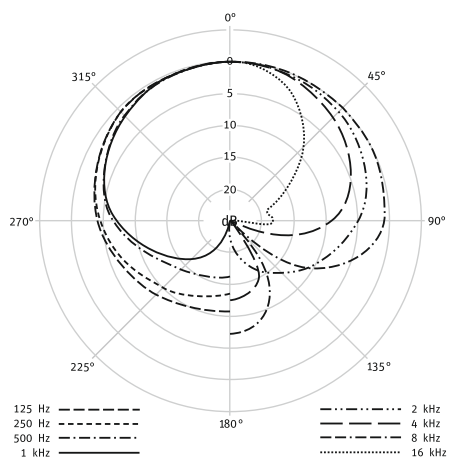
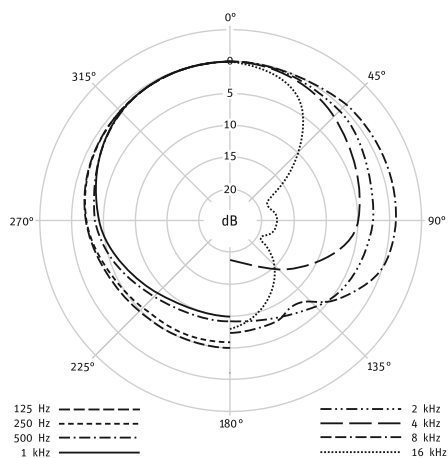
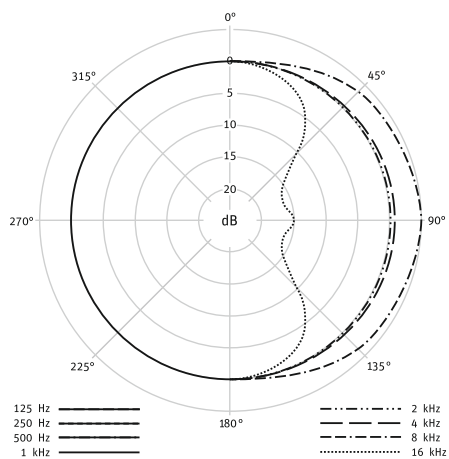


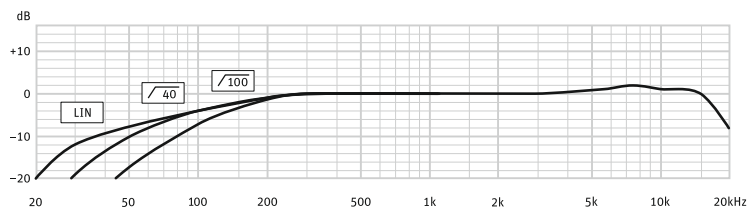
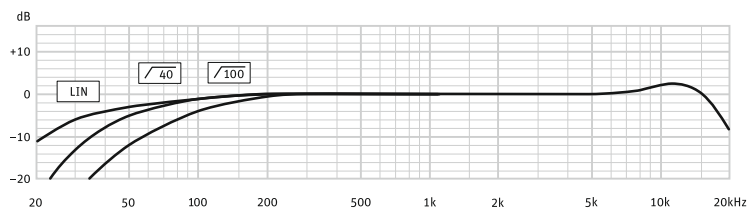
10. Frequenz- und Polardiagramme

10. Frequency responses and polar patterns



gemessen im freien Schallfeld nach IEC 60268-4, Toleranz ± 2 dB
measured in free-field conditions (IEC 60268-4), tolerance ± 2 dB





gemessen im freien Schallfeld nach IEC 60268-4, Toleranz ± 2 dB
measured in free-field conditions (IEC 60268-4), tolerance ± 2 dB

