MICROTECH GEFELL

microphones & acoustic systems - founded 1928 by Georg Neumann

M 930 Ts

STUDIO CONDENSER MICROPHONE

with
Phantom powering P 48 V

- big output transformer with optimized circuit
- low frequency transmission with negligible distortion
- lower low frequency response
- extreme dynamic range
- noise floor 7 dB(A)
- highly balanced output
- high solid-borne sound attenuation
- compact design

M 930 Ts

STUDIO CONDENSER MICROPHONE

M 930 Ts with cardioid polar pattern and output transformer

The studio microphone M 930 Ts unifies approved large diaphragm capsule technology with an optimized output transformer and a new developed circuit design. That attains a signal transmission with negligible distortion combined with a lower low frequency response, a very low noise floor and a high sound pressure level even at high external load.

APPLICATION

Because of the compact dimensions of the M 930 Ts it is ideally suited for applications where an optical inconspicuousness and an absolutely view to manuscripts and monitors is demanded. It can be placed on speaker desks in radio stations as well as for recordings of dialog pickups, audio books and in dubbing studios. Moreover it can be used as main microphone for recordings of solo instruments or vocals, as spot microphone for recording instrumental groups and for setting up multichannel main microphone arrangements. There are accessories for XY-, ORTF- and INA 5 arrangements available. Because of the balanced low-impedance transformer output the M 930 Ts can be used for longer cable length with negligible distortion.

ACOUSTICAL SPECIFICATIONS

The pick-up pattern is perpendicular to the direction of the microphone axis (side adressed) and is marked by the model number and the polar pattern symbol. The company logo is at the reverse side of the microphone. A condenser microphone capsule with a diameter of 28 mm and a gold-plated polyestermembrane is installed as sound transducer. The polar pattern is cardioid with a very high attenuation of rear sound incidence. The M 930 Ts has a constant frequency response with an accentuation of approximately 2,5 dB between 6 kHz and 12 kHz to raise the speech and high-frequency presence. The change of the low end frequency response caused by the proximity effect is well-balanced without a very strong overemphasis at small microphone distances.

pick-up pattern
M 930 Ts with EA 93 and A 93, satin nickel

ELECTRICAL SPECIFICATIONS

The newly optimized circuit topology of the impedance converter leads in combination with the specially designed output transformer to a very high transmission level range for sound pressure levels from 7 dB(A) to 142 dB with a maximum of 0,5% THD (total harmonic distortion). As a result, the M 930 Ts has a clean, distortion free sound over an extremely wide dynamic range. RFI susceptibility is very low. The microphone is connected by a standard 3-pin XLR-male plug with gold-plated pins which realizes the powering by an external 48 V phantom supply according to IEC 61938 with a current consumption of 6 mA.

MECHANICAL SPECIFICATIONS

The capsule is mounted elastically in the compact microphone housing of the M 930 Ts with a diameter of 45 mm and a length of 130 mm for attenuating solid-borne sound and impulses. If a higher attenuation of such influences is required it can be achieved by elastic holders and suspensions which are available as accessories. The weight of the M 930 Ts is 273 g without any holder and suspension. That weight allows the use of the microphone with standard microphone arms, stand mountings and other holders as well as on a microphone tang without any problems.

DELIVERY

Microphone **M 930 Ts** with the microphone holder MH 93.1 in a wooden case l x d x h 180 x 106 x 78 mm	
satin nickel	Order-No. 2111136
dark bronze	Order-No. 2111137

ACCESSORIES optional

Windscreen, anthracite	W 76	Order-No. 202407
Popscreen, black	P 110.20	Order-No. 600085
Elastic suspension, satin nickel	EH 93 P	Order-No. 202357
Elastic suspension, dark bronze	EH 93 P	Order-No. 202358
Elastic suspension incl. A93, satin nickel	EA 93	Order-No. 212311
Elastic suspension incl. A93, dark bronze	EA 93	Order-No. 212312
Adaptor, satin nickel	A 93	Order-No. 202354
Adaptor, dark bronze	A 93	Order-No. 202355
Stereo holder for XY, satin nickel	SH 93 Ts	Order-No. 202368
Stereo holder for XY, dark bronze	SH 93 Ts	Order-No. 202373
Tandem for ORTF, satin nickel	TD 93	Order-No. 212331
Tandem for ORTF, dark bronze	TD 93	Order-No. 212332
Connection cable	C 70.1	Order-No. 202212

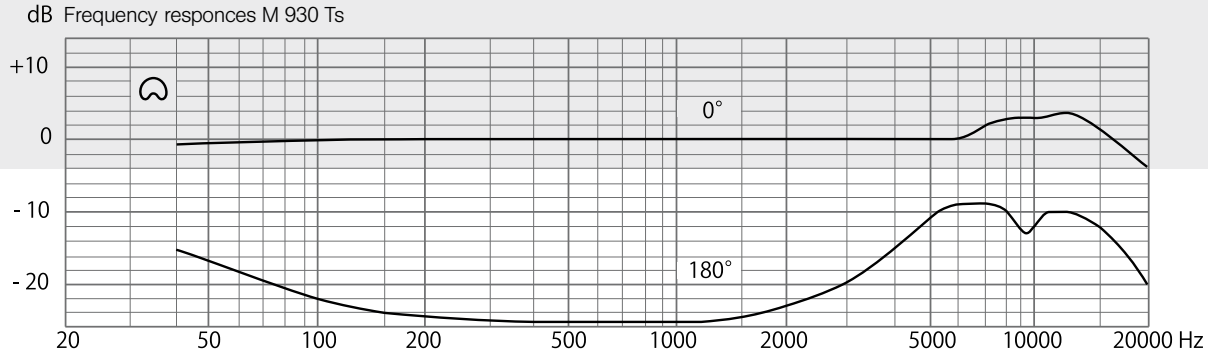
TECHNICAL SPECIFICATIONS

CE Certificate

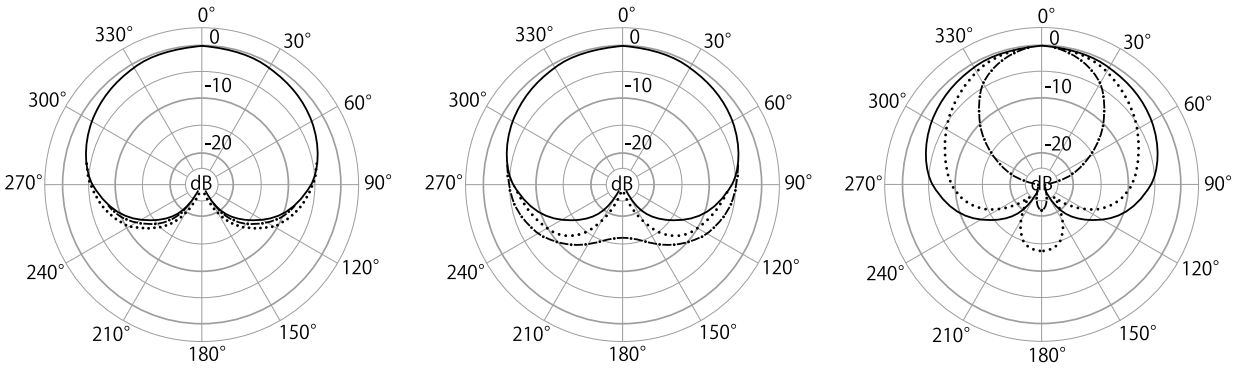
Polar pattern		Cardioid
Acoustic operating principle		Pressure gradient transducer
Frequency range		40 ... 18000 Hz
Sensitivity at 1 kHz		23 mV/Pa
Output impedance		40 Ω
Noise level	CCIR 468-4	18 dB
	DIN EN 60268-4	7 dB(A)
Signal-to-noise ratio	A-weighted	87 dB
Max. SPL for K < 0,5 %		142 dB
Max. output level	Ri = 1 kΩ	18 dBu
	Ri = 10 kΩ	21 dBu
Dynamic range		135 dB
output symmetry acc. IRT *		> 60 dB
power supply		48 V ± 4 V
Current consumption		6 mA
Output connector		XLR3M
Weight		273 g
Length		130 mm
Diameter		45 mm

* Institut für Rundfunktechnik, München

DIAGRAMS



Polar Patterns M 930 Ts



Microtech Gefell GmbH · Georg-Neumann-Platz · 07926 Gefell · Germany
Phone +49 (0)36649 882-0 · Fax +49 (0)36649 882-11 · www.microtechgefell.de · info@microtechgefell.de