



MM 310

Proven design, exceptional build quality and performance stability, this measurement microphone takes it higher, 100kHz! The MM 310 serves many applications: for R&D, in arrays, in production and in fact wherever high frequency data is required. Although designed for on-axis measurement, it is also a truly multi-sound field solution for frequencies up to 20kHz, returning valid results for both pressure and diffuse sound fields.

- Free-field
- IEPE/CCP
- 20 Hz to 100 kHz
- 36 dBA to 158 dB
- TEDS acc IEEE 1451
- MTG Calibrator 5010 recommended with 1/4" adaptor

TRANSDUCER TYPE	Capacitive pressure transducer, acc. WS3F (DIN EN IEC 61094-4)	INFLUENCE OF MAGNETIC FIELD	80 A/M, 50 HZ
SENSITIVITY	3,5 mV/Pa	INFLUENCE OF VIBRATION 1 M/S ²	
SENSITIVITY	-49 dB ±1,5 dB re 1V/Pa	OPERATING TEMPERATURE RANGE	-25 °C to +100 °C <± 0,5 DB
CORRECTION FREE-FIELD AT 1 KHZ	0 dB	MAIN AMBIENT TEMPERATURE COEFFICIENT	≤ 0,01 dB/K
RANDOM INCIDENCE AT 1 KHZ	0 dB	MAIN AMBIENT PRESSURE COEFFICIENT	1×10 ⁻⁵ dB/Pa
PRINCIPAL AXIS	microphone axis	TEMPERATURE LIMITS	-50 °C to +100 °C
FREQUENCY RANGE OF THE FREE FIELD RESPONSE	5 Hz to 100 kHz (± 2 dB)	HUMIDITY LIMITS	r.H. < 100%, absence of condensation
POLARIZATION VOLTAGE	0 V	DIAMETER WITH PROTECTION GRID	6,35 mm ± 0,02 mm
MAX. SPL FOR 3% THD AT 1 KHZ	158 dB	DIAMETER WITHOUT PROTECTION GRID	7,0 mm ± 0,02 mm
OUTPUT VOLTAGE	≤ 8,2 Veff	LENGTH	
OUTPUT IMPEDANCE	< 100 Ohm	WEIGHT	
NOM. LOAD IMPEDANCE	100 kOhm	PREAMPLIFIER THREAD	5,7 mm 60 UNS
CURRENT CONSUMPTION	2 mA to 10 mA, nom. 4 mA	PROTECTION GRID THREAD	6,35 mm 60 UNS
TRANSDUCER EXCITATION VOLTAGE	UL 24 V DC to 30 V DC	PLUG	Microdot UNF 10-32
TIME FOR POWER UP	1 min.	MICROPHONE IDENTIFICATION MEMORY	256-Bit 1-Wire™ EEPROM (DS 2430 AP)
INHERENT NOISE	36 dBA		

ABOUT MICROTECH GEFELL

Microtech Gefell designs, manufactures and supplies microphones and acoustic systems. Founded by Georg Neumann in 1928, Microtech Gefell is more than just a microphone – it is over 90 years of engineering excellence that combines tradition with innovation. MTG products have earned a worldwide reputation amongst professional users as precise and reliable acoustic measurement tools for all industries, including environmental applications, automotive, aerospace and research and development.

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