



MR-10 Outdoor Microphone



The weatherproof outdoor microphone MR-10 is constructed for outdoor continuous acoustic measurement.

It contains a special type of the electrostatic microphone MI-21 with integrated electronics which is additionally protected against splash water. The microphone will be delivered with narrow tolerances of 50 mV/Pa ($\pm 5\%$).

The power will be supplied by a constant current power supply (standard) with commonly 4mA. There is also the possibility of a feeding by a power supply unit (3-30V) with a series resistor. With this constellation the amplitude transmission factor is dependent on the supply voltage. Supply line will be a coaxial cable with a TNC connector.

The MR-10 will be delivered equipped with a rain protection and a wind shield.

Characteristics

Frequency range: 20Hz to 20kHz

Dynamic range: 30 to 130 dB (SPL)

Frequency response complies with DIN-IEC 651, class 2 (free field test site)

TECHNICAL DATA

Connection jack	TNC
Frequency response	30 Hz - 4 kHz, ± 1 dB 4 kHz - 20 kHz, ± 2 dB
Temperature range	-10° - $+50^{\circ}$ C
Sensitivity	50 $\pm 5\%$ mV/Pa
Inherent noise	(lin: 20Hz-20kHz) approx. 30 dB (20 μ Pa) („A“-weighted) approx. 26 dB (20 μ Pa)
Sound pressure level	130 dB peak (20 μ Pa)
Supply	IEPE 2-20 mA
Internal resistance	50 Ω

Materials	microphone with bird repeller: INOX (1.4305) fitting panel: anodized aluminum rest: plastics (POM)
Dimensions	height without bird repeller: 155 mm with bird repeller: 200 mm diameter wind shield: 85 mm diameter plug protection: 24 mm
Weight	90 g
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