



MP30-R Outdoor Microphone Set



MP30-R Outdoor Microphone

The sound entrance at a 90° angle to the microphone axis is ideal for monitoring ambient and traffic noise.

MP30-R is a 1/2-inch pre-polarized condenser outdoor microphone.

It is suitable for continuous use in rainy days or in a very high or very low temperature environment.

MP30-R uses a WS2F and IEC 61672 Class 1 MP30 microphone, which is characterized by its stability.

It is the best choice for long-term outdoor use, such as noise monitoring.

Reference direction of sound incidence 90° to the microphone axis

The measurement microphone can be calibrated with the sound calibrator 4010, CA111 or with other suitable sound pressure calibrators.

Technical Data

Free Field	WS2F IEC 61094-4
Sensitivity	40 mV/Pa
Frequency range	
Class 1 DIN EN 60 651	4 Hz ... 20 kHz
Polarisation Voltage	0 V
Sound Pressure Level Limit	
at 250 Hz, harmonic distortion <3%	135 dB
Polar Pattern	Sphere
Output voltage	≤ 6.5 Volt rms
Noise	16 dBA
IEPE Current	2 mA to 10 mA, nom. 4 mA
IEPE Voltage	UL 24 V DC to 30 V DC
Temperature range <± 0.5 dB	-25°C to +100°C
Connector	BNC
Dimensions	Φ60 × 271 mm
Preamplifier Thread	11.7mm 60 US
Weight	140 g

MP30 Microphone Capsule Specifications

Transducer Type	Capacitive Pressure Receiver
Frequency range	4 Hz ... 10 Hz (± 1.5 dB)
	10 Hz ... 4 kHz (± 0.5 dB)
	4 kHz ... 20 kHz (± 1.5 dB)
Frequency range of the free field response	40 mV/Pa
Maximum SPL: 3% distortion at 250 Hz	135 dB
Inherent noise	16 dBA
Polarization voltage	0V
Capacitance at polarization voltage at 1 kHz	16 pF
Working temperature range	-50 ... +100 °C
Humidity up to	70 °C, 90 %
Temperature coefficient	≤ 0.01 dB/K
Static Pressure Coefficient	0.00001 dB/Pa
Diameter with protective cap	13.2 mm \pm 0.05 mm
Height	16 mm
Weight	8 g
Threads for preamplifiers	11.7mm 60 US
Thread for protective cap	12.7mm 60 US



Maintenance and servicing

To ensure proper functioning, the measuring microphone capsule must be protected from mechanical damage and, depending on the operating conditions, must be checked for contamination on all sides in the operating voltage-free state at intervals to be determined. After removing the protective cap, the contaminants inside and on the membrane should be removed extremely carefully with a soft brush or cloth. The measurement microphone capsule is not suitable for use in chemically aggressive media and conductive dust. Condensation must be avoided.

MP30-R

