

MP30-HSPL

High SPL Microphone WS3P acc IEC 61094-4



MP30-HSPL-342

The MK342E-MP30 1/4" microphone opens up the possibility of using a high-quality, pre-polarized MK 342 E microphone capsule on DAQ systems with IEPE supply. Our state-of-the-art microphones are designed to accurately capture even the loudest and most powerful noises.

The electrical connection is made via the permanently attached BNC connector with BNC cables.

The 1/2" MP30 preamplifier is equipped with a 1/2" to 1/4" reducing adapter A 67, so that pre-polarized 1/2" microphone capsules with higher sensitivities or other properties.

The MI-MKAL microphone holder is recommended for holding the microphone. The use of the 1/4" measuring microphone capsule accessories, such as windscreens, etc., is possible without any problems.

The microphone can be calibrated with the sound calibrator type CA 111 or with other suitable sound pressure calibrators using a 1/4" adapter.

Technical data

IEPE Supply	24 to 30 V DC
Operating current	2 – 20 mA
Bias	12.5 V
Frequency range (± 3 dB)	3.5 Hz - 70 kHz
Microphone capsule thread	60 UNS
Polar pattern	Sphere
Electrical noise floor	12 dB (A)
Acoustic background noise	60 dB (A)
Limit sound pressure level	186 dB
Sensitivity	0.25 mV/Pa
Measuring range	60 – 186 dB (A)
Connector	BNC
Dimensions	$\Phi 12.5 \times 150$ mm
1/4" outside diameter	7.0 ± 0.02 mm
Weight	47 g

MK 342 E Specs

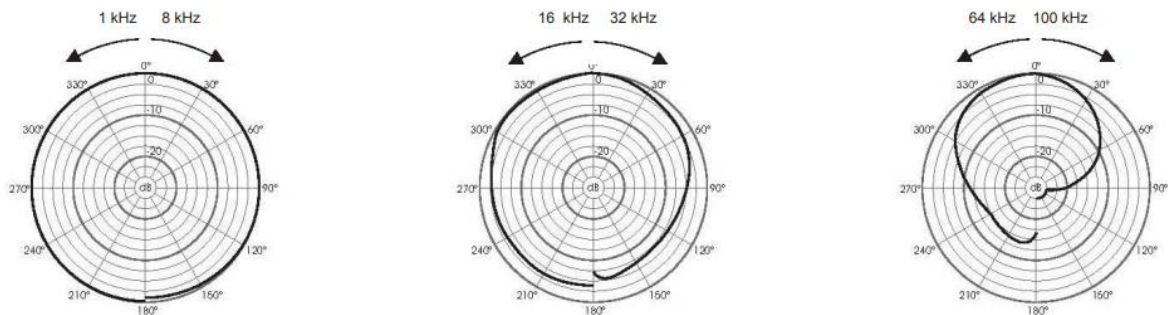
Transducer type WS3P acc IEC 61094-4	Capacitive pressure receiver
Frequency range of free-field transmission measurement	3.5 Hz ... 70 kHz (± 3 dB)
Sensitivity	0.25 mV/Pa
Limit sound pressure level for 3 % distortion at 1 kHz	186 dB
Noise	60 dB
Polarization voltage	backelectret
Capacitance with polarization voltage at 1 kHz	4.2 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	7 ± 0.02 mm
Height	9.7 mm
Weight	2 g
Thread for preamplifier	5.7 mm 60 UNS
Thread for protective cap	6.35 mm 60 UNS



Maintenance and servicing

In order to ensure proper functionality, the measuring microphone capsule must be protected from mechanical damage and, depending on the conditions of use, checked on all sides for contamination at intervals to be specified in the operating voltage-free state. After removing the protective cap, the impurities in its interior, as well as 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 formation must be ruled out.

Polar diagrams



typical pressure frequency response

