



MP 40 1/2" IEPE Measurement Microphone



The 1/2" IEPE measuring microphones of the MP 40 range provide:

- Constant current powered measuring microphone preamplifier PA-01 with electret condenser microphone capsule type MP40. The current powered 1/2" measuring microphone offers facilities for the use of a high-quality noise measurements.
- Typical applications like array arrangements and covered area measuring procedures, e.g. automotive acoustics, can be taken into account.
- This acoustic sensor can be connected to any IEPE input via BNC cable. The PA-01 preamplifier accepts in addition operating voltage supply from 18 to 30 Volt DC.

TECHNICAL DATA MP 40 CAPSULE + PA-01 Preamplifier

Frequency response	WS2F (DIN IEC 61094-4)	5 Hz – 20 kHz
Ref. Sens. @ 250 Hz +/- 3dB	-27dB (0dB=1mV/Pa)	40 mV/Pa
Type		Free Field Pre Polarized
Dynamic Range		17 - 146 (-3 dB THD)
Connector		BNC
Microphone thread		11.7 mm x 60 UNS
Noise voltage		2 µVrms (A-weighted)
PA-01 Frequency response		5Hz-100kHz +0dB -0,5dB
Input impedance		> 5 GOhm
Output impedance		< 110 Ohm
IEPE current supply		2-10mA
IEPE voltage source		18 - 30VDC
Max output voltage		8Vpp

All informations including product design are subject to errors or changes. 12/2019.



All MP 40 1/2" IEPE measuring microphones will be recalibrated prior to delivery.

The test results will be shipped with each microphone.

**Calibration Chart for
1/2" Prepolarized
Condenser Microphone
Type MP40**

Serial No: 0033

Open Circuit Sensitivity Level:
-25.5 dB re 1 V/Pa
or 53.1 mV/Pa

Conditions of Test:

Polarization Voltage: 0 V
Frequency: 250 Hz
Barometric Pressure: 101.2 kPa
Relative Humidity: 43 %
Temperature: 25 °C
Signature: Bella
Date: 07/16/2018

Specifications:

Outside Diameter:
13.2mm with protecting grid
12.7mm without protecting grid
Mounting Thread:
11.7 mm, 60 UNS 2
Capacitance: 16.0 pF (nominal)
Ambient Pressure Coefficient:
-0.007 dB/kPa for ± 10% pressure
change at 250 Hz
Temperature Coefficient:
-20°C to +60°C
-0.005 dB/°C at 250 Hz
Dynamic Range:
SPL below which the total harmonic
distortion remains less than 3%: 146dB

