





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.

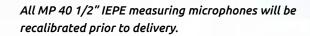
TECHNICAL DATA MP 40 CAPSULE + PA-01 Preamplifier

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Frequency response WS2F (DIN	NIEC 61094-4) 3.5 Hz – 20 kHz
Ref. Sens. @ 250 Hz +/- 3dB	-27dB (0dB=1mV/Pa) 50 mV/Pa
Туре	Free Field Pre Polarized
Dynamic Range	18 - 146 (-0.5 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. 3/2021

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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:

 Polarizition 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

