



PLACID
MEASUREMENT
MICROPHONE

**PMP
42**

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Discover a wide selection of our measurement microphones according to your sound measurement needs

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PLACID PMP42

¼" PRE-POLARIZED FREE-FIELD MICROPHONE, CLASS 2



Specification

Frequency Range

20 Hz to 16 kHz

Dynamic Range

36 dBA to 142 dB(A)

Nominal Sensitivity

8 mV/Pa

- The PMP42 is a ¼" pre-polarized free-field microphone
- Max SPL up to 142dBA (with < 3% THD)
- Frequency Response according to IEC 61672 Class 2



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Specification

Basics

The PLACID PMP42 is a high-precision condenser microphone manufactured in compliance with the IEC 61672 requirements and classified as a class 2 microphone.

The PMP42 microphone is optimized for free-field measurements. As all PLACID microphones, the PMP42 comes with an individually calibration certificate.

Connectivity

The PLACID PMP42 microphone requires a standardized ¼" BNC preamplifier that does not need to provide polarization.

Uses

The PMP42 is a robust and stable microphone and is being used as an all-round free field microphone suitable for laboratory as well as field jobs.

Daily usage

PLACID recommends calibration before and after each measurement with a calibrator.

Individual calibration

All PLACID microphones are being calibrated in a controlled laboratory environment using traceable calibration equipment complying with ISO17025 standards.

We recommend that all PLACID microphones are re-calibrated every year to guarantee an optimized usage.

PLACID Traceable Calibration is performed by our qualified staff and under controlled conditions according to the procedures and standards such as ISO17025.

Quality

All PLACID microphones are made of high-quality materials that will ensure long stability and durability.

The microphone diaphragm, body, and protection grid are made of high-grade stainless steel, which makes the microphone resistant to physical damage. PLACID offers 2 years warranty against defective materials and workmanship.



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DATASHEET PLACID PMP42



Class / type	2
Polarization	0 V
Frequency range	20 Hz ~16 kHz (complied with IEC 61672 Class 2 requirements at reference conditions)
T.H.D	< 3% at 142dB SPL
Dynamic range	36 – 142 dB(A)
Nominal Sensitivity	8 mV/Pa
Equivalent Noise Level	36 dB(A)
Upper Dynamic Limit	142 dB(A)
Temperature range, operation	-20 C ~ 60 Celsius
IEC 61672 Designation	WS3F Type II
Humidity operating Range	0 to 90 % RH
Ventilation	Rear
Weight	1.2 grams
Height	8 mm

Frequency Response Control

PMP42 uses 4/5 of the tolerances allowed by IEC61672 Class 2 as shown in Figure 1..

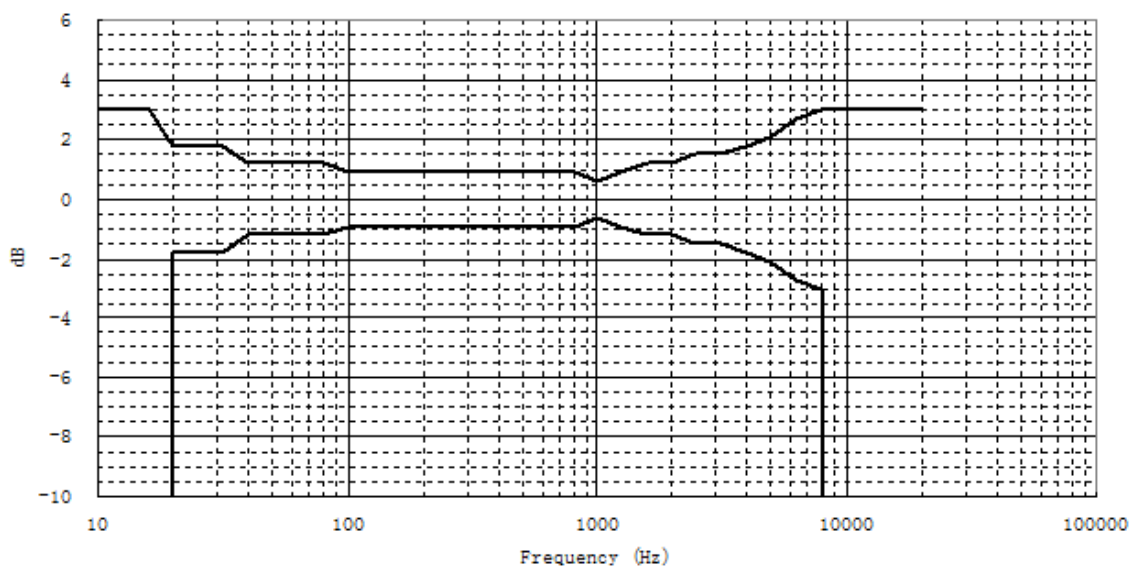


Figure 1. Production Quality Control Limits for PMP42



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MATERIALS

- | | |
|---------------|-------------------------------------|
| (1) Housing | : Stainless Steel |
| (2) Diaphragm | : Polymer with Nickel coating |
| (3) Electret | : Teflon on the back plate |
| (4) Labeling | : Labeling is available on request. |



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