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PMP  
42

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# PLACID PMP42

7 mm 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 7 mm 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 7 mm 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 Microphone



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..

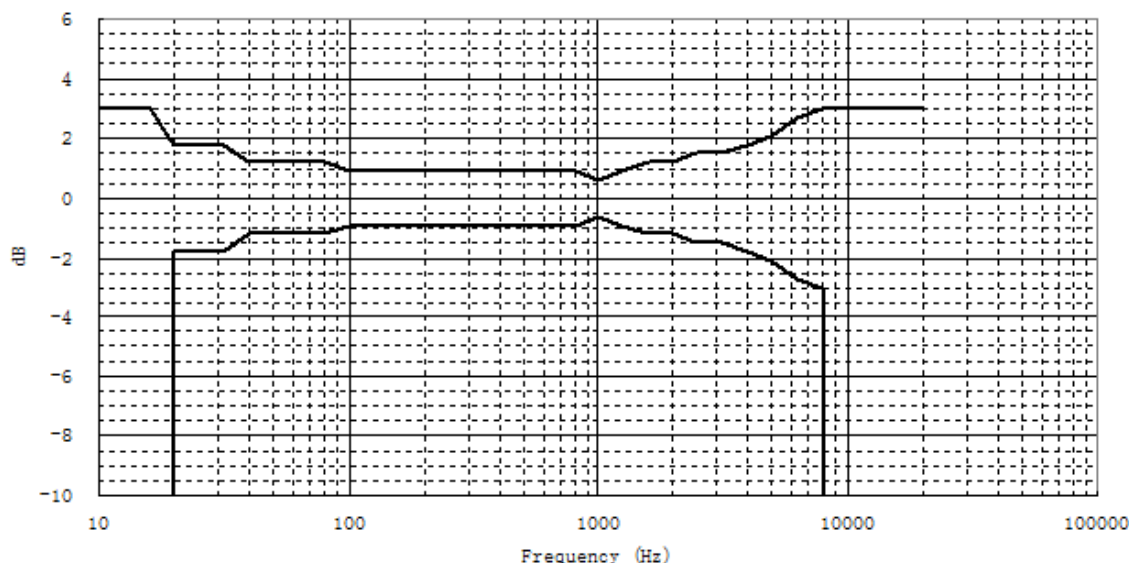


Figure 1. Production Quality Control Limits for PMP42



## New Calibrated Instruments for Registering Noise and Vibration

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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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