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Placid Instruments BV

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PMP
22

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PLACID PMP22

1/2" Pre-Polarized Free-field Microphone, Class 2



Specification

Frequency Range

20 Hz to 16 kHz

Dynamic Range

17 to 148dB(A)

Nominal Sensitivity

40 mV/Pa

- The PMP22 is a 1/2" pre-polarized free-field microphone,
- Max SPL up to 145dBA (with < 3% THD)
- Frequency Response according to IEC 61672 Class 2



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Specification

Basics

The PLACID PMP22 is a high-precision condenser microphone manufactured in compliance with the IEC61672 requirements and classified as a class 2 microphone.

The PMP22 microphone is optimized for free-field measurements. As all PLACID microphones, the PMP22 comes with an individually calibration certificate.

Connectivity

The PLACID PMP22 microphone requires a standardized 1/2" BNC preamplifier that does not need to provide polarization.

Uses

The PMP22 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 PMP22 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 145dB SPL
Dynamic range	17 – 148 dB(A)
Nominal Sensitivity	40 Mv / Pa
Temperature range, operation	-20 ~ 60 Celsius
IEC 61672 Designation	WS2F type II
Humidity operating Range	0 to 98 % RH
Height	17.6 mm
Ventilation	Back

Frequency Response Control

PMP22 uses 3/5 of the tolerances allowed by IEC61672 Class 2 as shown in Figure 1.

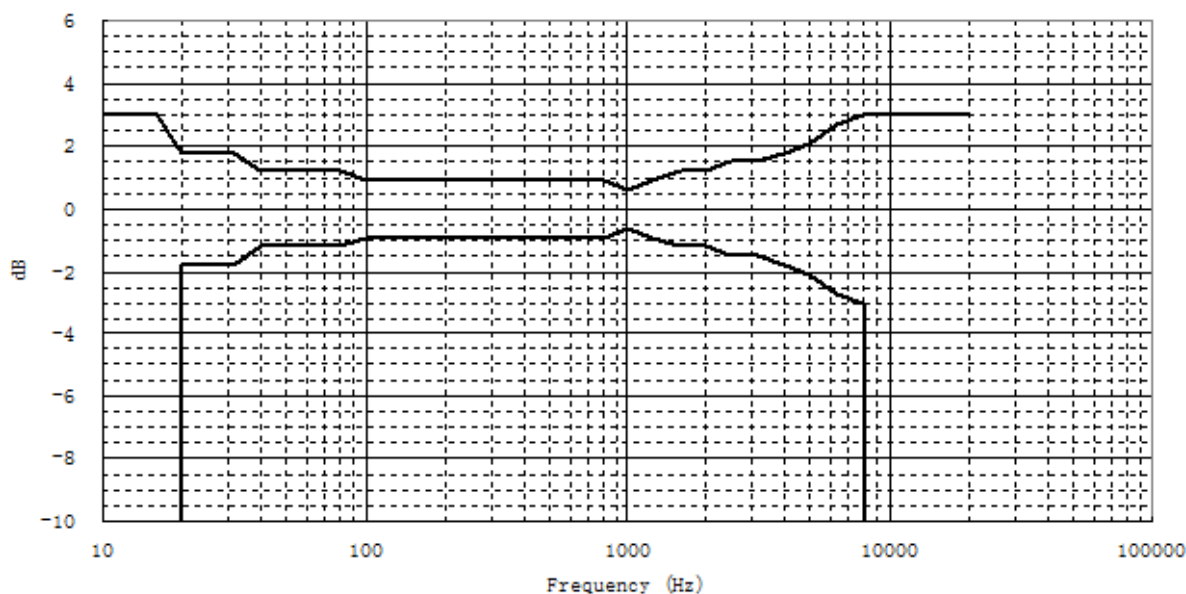


Figure 1.



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Materials

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

Frequency Response Control

The directivity was measured in anechoic chamber. The typical values are listed in Table 2

Table 2 Directivity in dB of PMP22 (referred to 0°)

Incidences Angles	1000 Hz	4000 Hz	5000 Hz	8000 Hz	16000 Hz
0°	0.0	0.0	0.0	0.0	0.0
45°	0.0	-0.2	-0.3	-0.5	-1.4
90°	-0.1	-0.3	-0.6	-0.8	-3.1
180°	-0.2	-1.1	-2.1	-1.5	-3.4



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