



ACCURATE & STABLE

PLACID MEASUREMENT MICROPHONES

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

Placid Instruments BV

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PMP
25

ASK US!
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PLACID PMP25

1/2" Prepolarized diffuse-field measurement microphone



Specification

Materials

Grid	Copper nickel plating
Housing	Stainless Steel
Diaphragm	Nickel
Back Plate	Stainless Steel
Insulator	Crystal Quartz
Electret	Teflon

The PMP25 is 1/2" prepolarized diffuse-field measurement microphone. It is for general purpose acoustic measurements, e.g. in diffuse fields and inside vehicles.

All the microphones are going through solid environmental testing, which includes high temperature ageing and high humidity ageing.



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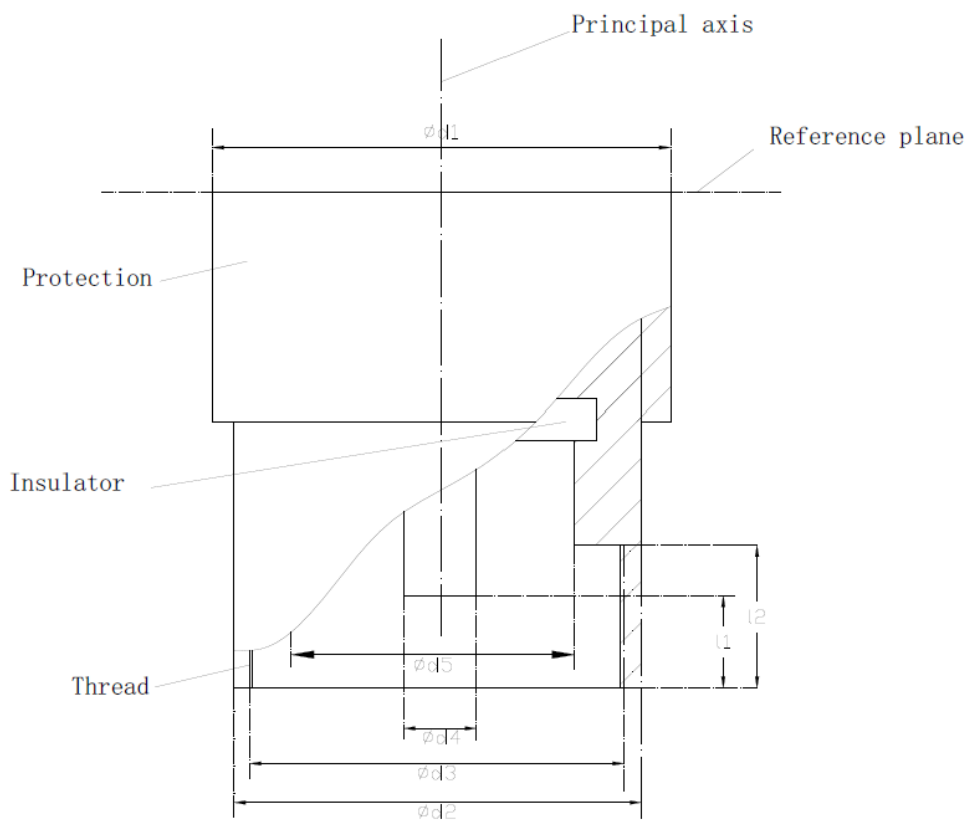
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Dimension

Dimension	D1	D2	I1	I2	D4	D5	D3	Total L
IEC 61094-4 Requirements for WS2D	13.2	12.7	3.6 - 4.6	>2.2	3-5	>7.8	11.70- 60UNS -2B	N/A
PMP25	13.20	12.68	4.30	4.30	3.01	7.90	11.70- 60UNS -2B	16.50





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Datasheet PLACID PMP25 Microphone



Frequency Response	Diffuse – Field
Open Circuit Sensitivity	50mV/Pa
Equivalent Noise Level	< 16 dB(A)
T.H.D.	< 3% at 146dB SPL
Polarization Voltage	0 V
Capacitance	16.0 pF
Equivalent Air Volume	230 mm ³ at 250 Hz.
Diaphragm Resonance Frequency	14 kHz.
Pressure Vent	Rear
Operating Temperature Range	-30°C ~ 90°C
Temperature Coefficient	-20 ~ 60 °C; Sound Pressure Level Change < -0.003 dB (at 250Hz, at reference temperature 23 °C)
Humidity Coefficient	20% - 90% RH ; Sound Pressure Level Change < -0.003 dB (at 250Hz at temperature 40 °C, and reference 50% RH)
Pressure Coefficient	65 kPa – 108 kPa ; Sound Pressure Level change < -0.004 dB (at 250 Hz at reference pressure 101 kPa.)
Long-Term stability coefficient	< 0.03 dB/year
Ventilation	Back



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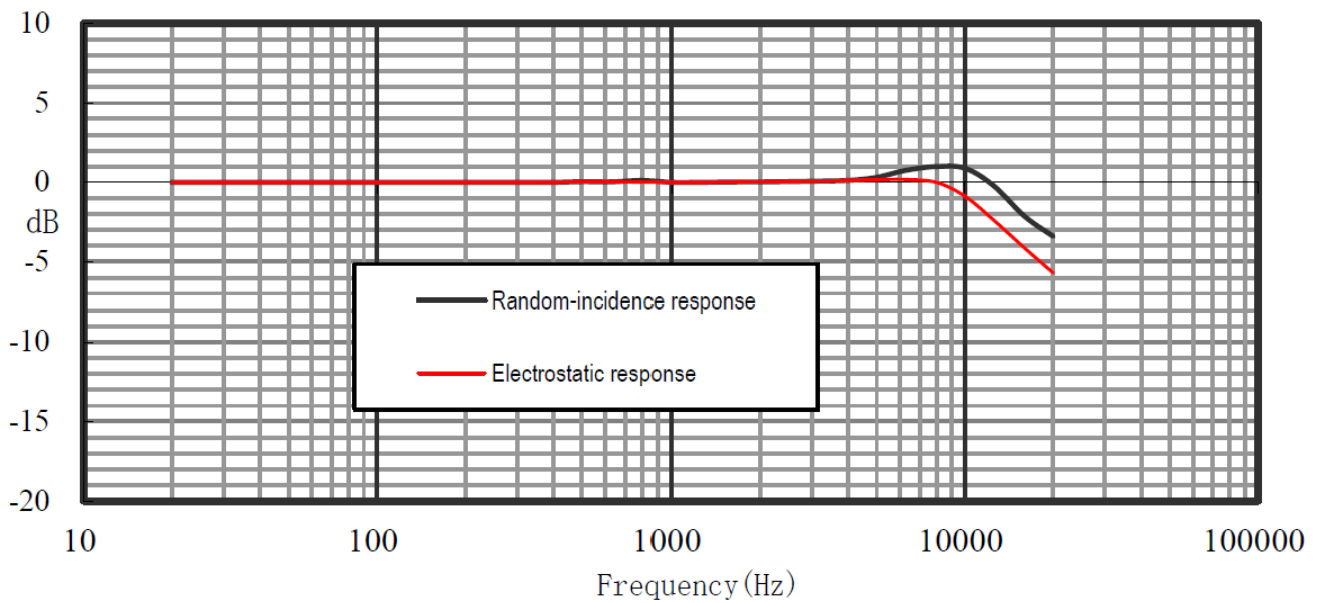
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The typical frequency response for PMP25





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Specification

Basics

The PLACID PMP25 is a high-precision condenser microphone manufactured in compliance with the IEC 61094-4 requirements and classified as a class 1 microphone.

The PMP25 microphone is optimized for pressure-field measurements. As all PLACID microphones, the PMP25 comes with an individually calibration certificate.

Connectivity

The PLACID PMP25 microphone requires a standardized 1/2" BNC preamplifier that does not need to provide polarization.

Uses

The PMP25 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.