



PLACID
MEASUREMENT
MICROPHONE

**PMP
41-1B**

ACCURATE & STABLE

PLACID MEASUREMENT MICROPHONES

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

Placid Instruments BV

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ASK US!
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PLACID PMP41-1B

MICROPHONE/PREAMPLIFIER SET (DETACHABLE)

1/2" POLARIZED FREE-FIELD MICROPHONE WITH PREAMPLIFIER



Specification

Frequency Range

20 Hz to 100 kHz

Dynamic Range

34 to 170 dB(A)

Nominal Sensitivity

4 mV/Pa

Measurement Microphone Set

The PMP41-1B is a polarized free-field microphone with preamplifier, classified per IEC 61094 as WS3F.



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Specification

Basics

The PLACID PMP41-1B is a high-precision condenser measurement microphone set consisting of a microphone and preamplifier manufactured in compliance with the IEC 61094-4 requirements and classified as a class 1 microphone.

The PMP41-1B microphone and preamplifier is optimized for free-field measurements. As all PLACID microphones, the PMP41-1B comes with an individually calibration certificate.

Connectivity

The PLACID PMP41-1B microphone and preamplifier has a SMB connector.

Uses

The PMP41-1B is a robust and stable measurement microphone set and is often being used in a microphone array / fixture or impedance tube for laboratory as well as field jobs.

Daily usage

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

Individual calibration

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

We recommend that all PLACID measurement microphone sets 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 measurement microphone sets 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 PMP41-1B



Designation	WS3F
Class / type	1
Polarization	0 V
Frequency range	20 Hz to 100 kHz
Dynamic range	34 – 170 dB(A)
Nominal Sensitivity	4 mV/Pa
Temperature range, operation	-30 – 75 Celsius
IEC 61094 Designation	WS3F
Humidity operating Range	0 to 98 % RH



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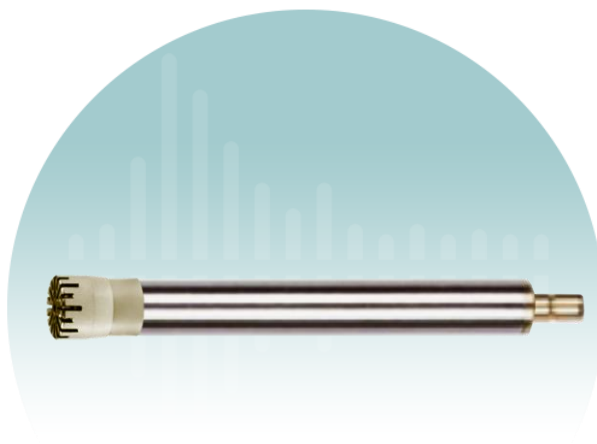
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FREEFIELD RESPONSE



Frequency	Freefield Response
20	0,0
25	0,0
32	0,0
40	0,0
45	0,0
50	0,0
56	0,0
63	0,0
71	0,0
80	0,0
90	0,0
100	0,1
125	0,0
160	0,0
200	0,0
250	0,0
315	0,0
400	0,0
500	0,0
630	0,0
800	0,0
1000	0,0
1250	0,0
1600	0,0
2000	0,0
2500	-0,1
3150	-0,2
4000	0,1
5000	0,1
6300	0,1
8000	0,0
10000	0,1
12500	0,2
16000	0,6
20000	0,6
25000	0,7
40000	-1,0
50000	-1,2
63000	0,4
80000	-0,1
90000	-1,1
100000	-1,4





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