



PLACID
MEASUREMENT
MICROPHONE

PMP
21-1

ACCURATE & STABLE

PLACID MEASUREMENT MICROPHONES

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

Placid Instruments BV

Newtonlaan 115

Office No. 2.21

3584 BH UTRECHT

THE NETHERLANDS

info@placidinstruments.com

www.placidinstruments.com

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PLACID INSTRUMENTS BV

Newtonlaan 115 Office No. 2.21 3584 BH UTRECHT, THE NETHERLANDS

Phone +31 302106021

email info@placidinstruments.com

website www.placidinstruments.com

PLACID PMP21-1 Measurement Microphone Set

1/2" PRE-POLARIZED FREE-FIELD MICROPHONE, WITH
PREAMPLIFIER, CLASS 1



Specification

Frequency Range

20 Hz to 20 kHz

Dynamic Range

16 to 146 dB(A)

Nominal Sensitivity

50 mV/Pa

Measurement Microphone Set

The PMP21-1 is a 1/2" pre-polarized free-field microphone, classified per IEC 61094 as WS2F Class 1 with preamplifier.



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Specification

Basics

The PLACID PMP21 -1 is a high-precision condenser microphone manufactured in compliance with the IEC 61094-4 requirements and classified as a class 1 microphone. The PMP21-1 microphone is optimized for free-field measurements.

As all PLACID microphones, the PMP21-1 comes with an individually calibration certificate.

Connectivity

The PMP21-1 measurement microphone set includes the PMP21 microphone and the PNP21 preamplifier

Uses

The PMP21 -1 is a robust and stable measurement microphone set and is being used as an all-round free field measurement Microphone set 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 measurement microphones set 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 PMP21 - 1



Class / type	1
Polarization	0V
Frequency range	20 Hz to 20 kHz
Dynamic range	16 – 146 dB(A)
Nominal Sensitivity	50 mV/Pa
Temperature range, operation	-30 – 75 Celsius
IEC 61094 Designation	WS2F Class 1
Humidity operating Range	0 to 90 % RH
Ventilation	Rear
Weight	8.9 grams
Height	17.3 mm



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PLACID PNP21

1/2" STANDARD PREAMPLIFIER



Specification

Frequency Range

5.0 Hz to 100 kHz

Noise

< 2.0 μ V

Usage

General purpose

The PLACID PNP21 1/2" Preamplifier is a robust preamplifier designed to be used for acoustic measurements with condenser microphones.

The self-noise is very low, it has a wide dynamic range and frequency response.



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Specification

Design

All PLACID ICCP microphone preamplifiers are designed for ¼", ½" and 1" condenser microphones.

The preamplifiers are optimized to have a flat frequency response which will ensure high quality acoustic measurements.

Self Noise

The electrical circuit has especially been designed to ensure a low self-noise level which typically be much lower than the self-noise of the microphone cartridge.

Impedance

The PLACID PNP21 input impedance is over 5 Ω, the output impedance is less than 110 Ω .

Daily usage

- General-purpose preamplifier
- High-frequency measurements
- High-pressure measurements



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DATASHEET PLACID PNP21



Frequency Response (Ref. 250 Hz, 0.2 dB)	Hz	5.0 to 100 kHz
Slew Rate	V/ μ s	3.7
Input Impedance	G Ω	> 5
Output Impedance	Ω	< 110
Max Output Voltage	V _{rms}	8.0
Noise (A-Weighted)	μ V	< 2.0
Noise (Linear 20 Hz – 20 kHz)	μ V	< 6.0
Gain	dB	- 0.27
DC – offset, minimum	V	15
DC- offset, maximum	V	24
Power Requirement	mA	ICP 2 to 20
Temperature operational range	Celcius	- 40 to 100
Temperature storage range	Celcius	-40 to 100
Humidity operational range noncondensing	% Rh	0 to 98
Output Connector Type		BNC
Diameter	Inch	$\frac{1}{2}$
Weight	Gram	25.5
Length	mm	84.5



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