



PLACID MEASUREMENT MICROPHONE

PMP 20-1

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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PLACID PMP20-1 Measurement Microphone Set

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



Specification 🏠

Frequency Range 20 Hz to 40 kHz

Dynamic Range 25 to 155 dB(A)

Nominal Sensitivity 12 mV/Pa Measurement Microphone Set The PMP20 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 PMP20-1 is a high-precision condenser microphone manufactured in compliance with the IEC 61094-4 requirements and classified as a class 1 microphone. The PMP20-1 microphone is optimized for freefield measurements. As all PLACID microphones, the PMP20-1 comes with an individually calibration certificate.

Connectivity

The PMP20-1 measurement microphone set includes the PMP20 microphone and the PNP21 preamplifier

Uses

The PMP20 -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 highquality 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 PMP20-1



Class / type	1	
Polarization	OV	
Frequency range	20 Hz to 40 kHz	
Dynamic range	25 – 155 dB(A)	
Nominal Sensitivity	12 mV/Pa	
Temperature range, operation	-30 – 75 Celsius	
IEC 61094 Designation	WS2F	
Humidity operating Range	0 to 90 % RH	
Ventilation	Rear	
Weight	6.8 grams	
Height	12.3 mm	





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PLACID PNP21

1/2" STANDARD PREAMPLIFIER



Specification 🏠

Frequency Range 5.0 Hz to 100 kHz

Noise < 2.0 μV

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 Preamplifier



Frequency Response (Ref. 250 Hz, 0.2 dB)	Hz	5.0 to 100 kHz
Slew Rate	V/µs	3.7
Input Impedance	GΩ	> 5
Output Impedance	Ω	< 110
Max Output Voltage	Vrms	8.0
Noise (A-Weighted)	μ∨	< 2.0
Noise (Linear 20 Hz – 20 kHz)	μ∨	< 6.0
Gain	dB	- 0.27
DC – offset, minimum	\vee	15
DC- offset, maximum	\vee	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	1/2
Weight	Gram	25.5
Length	mm	84.5





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