

Model Number

9919C

ACOUSTIC MICROPHONE CALIBRATION SYSTEM

Revision: A

ECN#:

PERFORMANCE

Technique

Frequency Range

Expected Overall Uncertainty – 250 Hz

Field Correction Types

Supplied Reference Microphones/Preamps

Source Signal for 1 Pa Output (1 kHz)

Source Signal for 1 Pa Output (10 kHz)

Distortion (%THD, 250 Hz, 94 dB SPL)

IEC 61094-5 Comparison

20 Hz to 20 000 Hz

0.25 dB

Free Field, Random Incidence, Pressure, A-

B-C-D Weighting, Other / User Defined

PCB 377C10/426A13 (¼")

PCB 377C13/426A13 (½")

3.2 mV

500 mV

≤1%

MICROPHONES SUPPORTED

Form Factors

Diaphragm Design

Grid Cap Design

½" and ¼" diameter, per IEC 61094^[1]

Electret (aka Array) and Condenser

Permanent or Removable

ACTUATOR PERFORMANCE

Max Sound Pressure Level (250 Hz)

Max Sound Pressure Level (1000 Hz)

Distortion (250 Hz, 1 Pa [94 dB SPL])

Operating Range - Temperature

Operating Range - Relative Humidity

>114 dB SPL

>114 dB SPL

<1.0% THD

67 to 77 °F [20 to 25 °C]

25 to 75%

PHYSICAL

Size - height x diameter

Weight

13 x 6 in [334 x 152 cm]

10 lb [4.5]

ELECTRICAL

AC Power

Input Power

Analog Input Signal Connection

Input Voltage, RMS

Input Voltage (absolute maximum), RMS

110 or 220 V AC

12 - 21 VDC^[2]

BNC plug

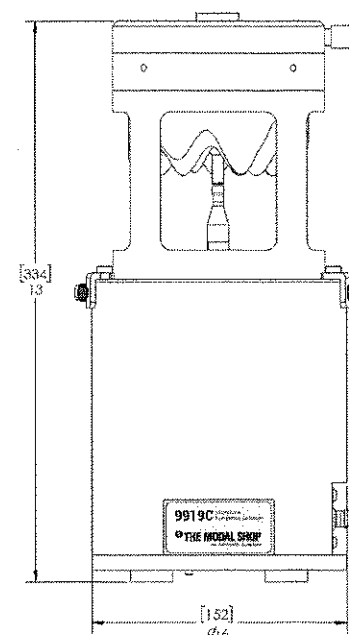
0-1 VAC^[3]1.9 VAC^[4]**NOTES:**

[1] Various adaptors are supplied for the most common form factors. Additional custom adaptors are available for others. Contact TMS for the most recent microphone/adaptor compatibilities.

[2] Supplied with universal power supply, 60 W (19 V DC - 3.15 A output).

[3] Nominal for unclipped operation.

[4] Exceeding maximum input voltage may damage internal amplifier.

SYSTEM DIAGRAM

All specifications are at room temperature unless otherwise specified.

ICP is a registered trademark of PCB Piezotronics, Inc.

In the interest of constant product improvement, specifications may change without notice.



Project Engineer:

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Date: 8/19/26

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Date: 8/19/26

SAM Team Leader:

WDR

Date: 8-19-26

Spec Number:

PS-0177

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SAM-F020 revB 05/17/18