

Model Number

9919C

ACOUSTIC MICROPHONE CALIBRATION SYSTEM

Revision: NR

ECN#:

PERFORMANCE

Technique	IEC 61094-5 Comparison
Frequency Range	20 Hz to 20 000 Hz
Expected Overall Uncertainty – 250 Hz	0.25 dB
Field Correction Types	Free Field, Random Incidence, Pressure, A-B-C-D Weighting, Other / User Defined
Supplied Reference Microphones	PCB / 378C10 (¼") PCB / 378C13 (½")
Source Signal for 1 Pa Output (1 kHz)	3.2 mV
Source Signal for 1 Pa Output (10 kHz)	500 mV
Distortion (%THD, 250 Hz, 94 dB SPL)	≤1%

MICROPHONES SUPPORTED

Form Factors	¼" and ½" diameter, per IEC 61094
Diaphragm Design	Electret (aka Array) and Condenser
Grid Cap Design	Permanent or Removable

9919C ACTUATOR PERFORMANCE

Max Sound Pressure Level (250 Hz)	>104 dB SPL
Max Sound Pressure Level (1000 Hz)	>104 dB SPL
Distortion (250 Hz, 1 Pa [94 dB SPL])	<1.0% THD
Operating Range - Temperature	70 to 77 °F [21 to 25 °C]
Operating Range - Relative Humidity	30 to 75%

9919C HARDWARE MECHANICAL

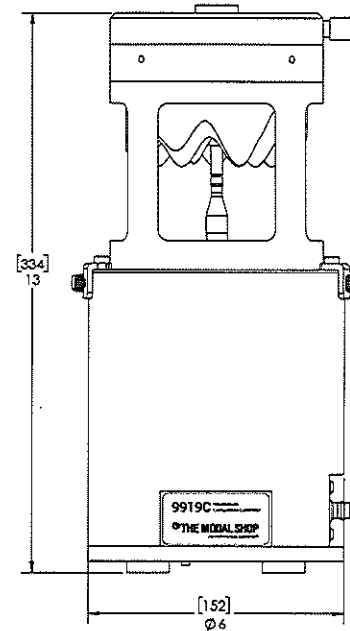
Size - height x diameter	13 x 6 in [334 x 152 cm]
Weight	10 lb [4.5]
AC Power	110 or 220 V AC
Input Power	12 - 21 VDC ^[2]
Analog Input Signal Connection	BNC plug
Max Input Signal	1 Vrms

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).

SYSTEM DIAGRAM



All specifications are at room temperature unless otherwise specified.

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



Project Engineer: <i>[Signature]</i>	Product Manager: <i>[Signature]</i>	SAM Team Leader: <i>[Signature]</i>	Spec Number: PS-0177
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THE MODAL SHOP
AN AMPHENOL COMPANY

10310 Aerohub Boulevard
Cincinnati, OH 45215, USA

info@modalshop.com
+1 513.351.9919

+1 800.860.4867
Fax: +1 513.458.2172

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