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AMERICAN NATIONAL STANDARD **MEASUREMENT MICROPHONES — PART 1: SPECIFICATIONS FOR LABORATORY STANDARD MICROPHONES**

ANSI S1.15-1997/Part 1

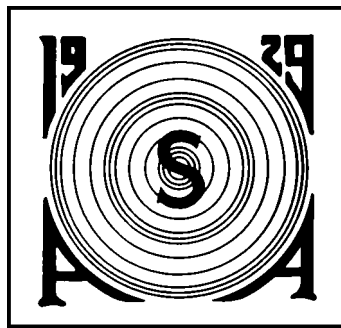
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American National Standard

Measurement Microphones — Part 1: Specifications for Laboratory Standard Microphones

Secretariat
Acoustical Society of America

Approved 6 June 1997
American National Standards Institute, Inc.

Abstract

This Standard specifies mechanical dimensions and certain electroacoustical characteristics for capacitor (condenser) microphones used as laboratory standards for sound pressure measurements of the highest attainable accuracy. The specifications are intended to ensure that primary calibration by the reciprocity method can be readily carried out. This Standard establishes a system to classify laboratory standard microphones into a number of types according to their dimensions and properties. This American National Standard is comparable to International Standard IEC 61094-1:1992, "Measurement microphones — Part 1: Specifications for laboratory standard microphones."

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Foreword

[This Foreword is for information only and is not an integral part of American National Standard Measurement Microphones — *Part 1: Specifications for Laboratory Standard Microphones*, ANSI S1.15-1997/Part 1.]

This American National Standard is comparable to International Standard IEC 61094-1:1992, “Measurement microphones — *Part 1: Specifications for laboratory standard microphones.*”

This Standard is *Part 1* of a series of standards related to measurement microphones.

Part 2 of this series covers the primary method for pressure calibration of laboratory standard microphones by the reciprocity technique. *Part 3* covers the primary method for free-field calibration of laboratory standard microphones by the reciprocity technique. *Part 4* provides specifications for working standard microphones.

This Standard was developed under the jurisdiction of Accredited Standards Committee S1, Acoustics, which has the following scope:

Standards, specifications, methods of measurement and test, and terminology, in the fields of physical acoustics including architectural acoustics, electroacoustics, sonics and ultrasonics, and underwater sound, but excluding those aspects which pertain to safety, tolerance, and comfort.

At the time this standard was submitted to Accredited Standards Committee S1, Acoustics, for final approval, the membership was as follows:

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Working Group S1/WG1, Standard Microphones and their Calibration, of Accredited Standards Committee S1 provided comments and recommendations during the development of the IEC 61094 series of International Standards for measurement microphones. The composition of S1/WG1 was:

V. Nedzelitsky, Chair

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A. H. Marsh	V. Nedzelitsky	P. D. Schomer	G. S. K. Wong
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Suggestions for improvement of this Standard will be welcomed. They should be made in writing to Accredited Standards Committee S1, Acoustics, in care of the ASA Standards Secretariat, 120 Wall Street, 32nd floor, New York, New York 10005-3993, USA. Telephone +1 212 248 0373; FAX: +1 212 248 0146, E-mail asastds@aip.org.