

Reaffirmed by ANSI July 29, 1997	Reaffirmed by ANSI July 17, 2002	Reaffirmed by ANSI September 11, 2007	Reaffirmed by ANSI November 30, 2012
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AMERICAN NATIONAL STANDARD

Methods for the Field Measurement of the Sound Output of Audible Public Warning Devices Installed at Fixed Locations Outdoors

ANSI/ASA S12.14-1992
(Formerly ANSI S12.14-1992)
(ASA 101-1992)

Accredited Standards Committee S12, Noise

Standards Secretariat
Acoustical Society of America
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The Acoustical Society of America (ASA) is an organization of scientists and engineers formed in 1929 to increase and diffuse the knowledge of acoustics and to promote its practical applications.



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Secretariat
Acoustical Society of America

Approved 12 March 1992
American National Standards Institute, Inc.

Abstract

This American National Standard describes relatively simple procedures for measuring and reporting certain properties of sounds produced by audible public warning devices. Methods are given for the measurement of the *C*-weighted sound level and for determining the one-third octave band containing the fundamental frequency of tonal warning sounds produced by audible public warning devices at a distance of 100 ft (30.5 m) from the device and at the mounted height of the device. A method is also given for measuring the maximum level of the sound from a warning sound source at the heads of bystanders on the ground. These methods may be used by manufacturers to specify, in part, the sound produced by their products, by customers to verify compliance with pertinent sound output specifications, and by warning system designers to estimate warning sound coverage.

AMERICAN NATIONAL STANDARDS ON ACOUSTICS

The Acoustical Society of America provides the Secretariat for Accredited Standards Committees S1 on Acoustics, S2 on Mechanical Shock and Vibration, S3 on Bio-acoustics, and S12 on Noise. These committees have wide representation from the technical community (manufacturers, consumers, and general-interest representatives). The standards are published by the Acoustical Society of America through the American Institute of Physics as American National Standards after approval by their respective standards committees and the American National Standards Institute.

These standards are developed and published as a public service to provide standards useful to the public, industry, and consumers, and to Federal, State, and local governments.

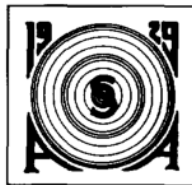
This standard was approved by the American National Standards Institute as ANSI S12.14-1992 on 12 March 1992.

An American National Standard implies a consensus of those substantially concerned with its scope and provisions. An American National Standard is intended as a guide to aid the manufacturer, the consumer, and the general public. The existence of an American National Standard does not in any respect preclude anyone, whether he has approved the standard or not, from manufacturing, marketing, purchasing, or using products, processes, or procedures not conforming to the standard. American National Standards are subject to periodic review and users are cautioned to obtain the latest editions.

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Published by the Acoustical Society of America through the American Institute of Physics

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FOREWORD

[This Foreword is not part of American National Standard Methods for the Field Measurement of the Sound Output of Audible Public Warning Devices Installed at Fixed Locations Outdoors, ANSI S12.14-1992 (ASA Catalog No. 101-1992).]

This standard was developed under the American National Standards Institute (ANSI) Accredited Standards Committee Procedures under the Secretariat of the Acoustical Society of America. Accredited Standards Committee S12, Noise, under whose jurisdiction this standard was developed, has the following scope:

Standards, specifications, and terminology in the field of acoustical noise pertaining to methods of measurement, evaluation, and control, including biological safety, tolerance, and comfort, and physical acoustics as related to environmental and occupational noise.

At the time this Standard was submitted to Accredited Standards Committee S12 for approval, the membership was as follows:

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