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AMERICAN NATIONAL STANDARD Characteristics to be Specified for Seismic Transducers

Accredited Standards Committee S2, Mechanical Shock and Vibration

ABSTRACT

This standard specifies the characteristics of a seismic transducer (pickup) which can serve as an adequate description of the capabilities of the pickup to perform a shock or vibration measurement in various environments. It is intended as a guide to instrument manufacturers for indicating the characteristics of their transducers that are critical in specifying, selecting, or preparing performance description by users. This standard is the national counterpart of ISO 8042-1988 Shock and Vibration Measurements—Characteristics to be Specified for Seismic Pick-Ups.

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The Acoustical Society of America provides the Secretariat for Accredited Standards Committees S1 on Acoustics, S2 on Mechanical Shock and Vibration, S3 on Bioacoustics, 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.

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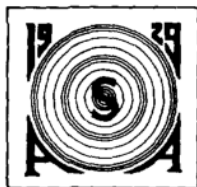
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The Acoustical Society of America (ASA) is an organization of scientists and engineers formed in 1929 to increase and diffuse the knowledge of acoustics and to promote its practical applications.



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FOREWORD

[This Foreword is not a part of American National Standard Guide to the Characteristics to be Specified for Seismic Transducers ANSI S2.46-1989 (ASA Catalog No. 82-1989).]

This standard was developed under the jurisdiction of Accredited Standards Committee S2, Mechanical Shock and Vibration, using the American National Standards Institute (ANSI) Accredited Standards Committee Procedure. The Acoustical Society of America provides the Secretariat for Accredited Standards Committee S2, Mechanical Shock and Vibration. This standard is the national counterpart of ISO 8042-1988 Shock and Vibration Measurements—Characteristics to be Specified for Seismic Pick-Ups.

Accredited Standards Committee S2, Mechanical Shock and Vibration, under whose jurisdiction this standard was developed, has the following scope:

Standards, specifications, methods of measurement and test; and terminology, in the fields of mechanical shock and vibration, but excluding those aspects which pertain to biological safety, tolerance, and comfort.

At the time this standard was submitted to Accredited Standards Committee S2, Mechanical Shock and Vibration, for approval, the membership was as follows:

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Working Group S2-81, Use and Calibration of Vibration and Shock Measuring Instruments, which assisted the Accredited Standards Committee S2, Mechanical Shock and Vibration, in the development of this standard, had the following membership:

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