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Part 3: Objective method for the measurement of prominence of impulsive sounds and for adjustment of L_{Aeq}

Acoustique — Description, mesurage et évaluation du bruit de l'environnement —

Partie 3: Méthode objective pour le mesurage de l'émergence des bruits impulsifs et pour l'ajustement du L_{Aeq}

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ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Email: copyright@iso.org
Website: www.iso.org

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Foreword

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This document was prepared by Technical Committee ISO/TC 43, *Acoustics*, Subcommittee SC 1, *Noise*.

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Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

This corrected version of ISO/PAS 1996-3:2022 incorporates the following correction:

— Formula (3) in Clause 6 has been corrected.

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Introduction

Noise with prominent impulsive sound is more annoying than continuous types of noise (without impulses or tones) with the same equivalent sound pressure level. Therefore, an adjustment is commonly added to the measured L_{Aeq}, if prominent impulsive sound is present.

In ISO 1996, three categories of impulsive sound have been found to correlate best with community response, and adjustments are given for each. Sources of impulsive sound are listed for each category. However, the list is not exhaustive.

This method objectively categorises sources by determining the prominence of impulsive sound at the receiver point, with the aim of correlating to human response. The resulting adjustments can be used to categorise the sources or be applied directly. It describes specific methodology for this purpose and provides guidance to cognizant authorities for categorising sources and their adjustments. It is intended to complement the ISO 1996-2 measurement method for general purpose environmental noise assessment.

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