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IEC 61672-1:2002 Electroacoustics - Sound level meters - Part 1: Specifications

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Abbreviation

IEC 61672-1:2002

Valid from

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International Electrotechnical Commission

Author

International Electrotechnical Commission

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IEC Standard

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Cited By

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Description

This Standard gives electroacoustical performance specifications for three kinds of sound measuring instruments:

- a conventional sound level meter that measures exponential time-weighted sound level;
- an integrating-averaging sound level meter that measures time-average sound level; and
- an integrating sound level meter that measures sound exposure level. A single instrument may make any, or all, of the three kinds of measurements.

Two performance categories, class 1 and class 2, are specified in this standard.

In general, specifications for class 1 and class 2 sound level meters have the same design goals and differ mainly in the tolerance limits and the range of operational temperatures. Tolerance limits for class 2 specifications are greater than, or equal to, those for class 1 specifications.

Sound level meters conforming to the requirements of this standard have a specified frequency response for sound incident on the microphone from one principal direction in an acoustic free field or from random directions.

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