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# Acoustics — Measurement of airborne noise emitted and structure-borne vibration induced by small air-moving devices —

## Part 1:

# Airborne noise measurement

Acoustique — Mesurage du bruit aérien émis et des vibrations de structure induites par les petits équipements de ventilation —

Partie 1: Mesurage du bruit aérien



Reference number ISO 10302-1:2011(E)

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#### **Foreword**

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The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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ISO 10302-1 was prepared by Technical Committee ISO/TC 43, Acoustics, Subcommittee SC 1, Noise.

This first edition of ISO 10302-1 cancels and replaces ISO 10302:1996.

ISO 10302 consists of the following parts, under the general title *Acoustics* — *Measurement of airborne noise* emitted and structure-borne vibration induced by small air-moving devices:

- Part 1: Airborne noise measurement
- Part 2: Structure-borne vibration measurements

### Introduction

This part of ISO 10302 specifies in detail methods for determining and reporting the airborne noise emissions of small air-moving devices (AMDs) used primarily for cooling electronic equipment, such as that for information technology and telecommunications.

To provide compatibility with measurements of acoustical noise emitted by such equipment, this part of ISO 10302 uses the noise emission descriptors and sound power measurement methods of ISO 7779. The descriptor of overall airborne noise emission of the AMD under test is the A-weighted sound power level. The one-third-octave-band sound power level is the detailed descriptor of the noise emission. Octave-band sound power levels may be provided in addition to the one-third-octave-band sound power levels.