INTERNATIONAL STANDARD

ISO 7779

Fourth edition
2018-11

Acoustics — Measurement of airborne noise emitted by information technology and telecommunications equipment

Acoustique — Mesurage du bruit aérien émis par les équipements liés aux technologies de l'information et aux télécommunications

Reference number
ISO 7779:2018(E)

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Published in Switzerland

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Foreword

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

This fourth edition cancels and replaces the third edition (ISO 7779:2010), which has been technically revised. The main changes compared to the previous edition are as follows:

— Clause 3:
  — Updates of many items in 3.1 and 3.2 to be consistent with basic standards, such as ISO/TR 25417, ISO 3744, etc.
  — Addition of new 3.3 corresponding to new Clause 9.
— Clause 6:
  — In 6.4.6, the microphone calibration procedures were amended to be consistent with those of industrial counterpart, ECMA-74.
— Clause 7:
  — In 7.3 (7.3.1), the procedure for test environment qualification was amended to clarify that any frequency bands, typically low in frequency, not significantly affecting A-weighted sound power level need not meet the hemi-anechoic room qualification criteria for the purposes of determining A-weighted sound power level.

— In 7.4.6, the microphone calibration procedures were amended to be consistent with those of industrial counterpart, ECMA-74.

— Clause 8:

— In 8.6, new 8.6.1 was inserted to clarify the method of defining operator position and bystander positions.

— Clause 9:

— Clause 9 was newly inserted.

— In relation to Clause 9, 3.3 was also added, and the descriptions of Tables 1, 5 and 6 (in 6.2, 7.2 and 8.2 respectively) were amended.

— Annex B:

— B.2.2 and B.2.3 were amended to clarify the section of size and microphone positions on the cylindrical measurement surface, respectively.

— Annex D:

— In D.1, D.8, D.9.5, D.10.3 and D.10.4, descriptions were amended to clarify that Annex D permits to use FFT data below 89,1 Hz and above 11 200 Hz to calculate tone-to-noise ratio and prominence ratio.

— In D.9.7 and D.10.7, notes were added to mention that new metrics for detecting prominent discrete tone, (1) total tone-to-noise ratio and (2) total prominence ratio are under development.

— Annex E:

— The measurement method stated in Annex E became out of date and was removed. But the annex structure is still maintained for the possible development of a new method (the title of the annex was amended accordingly).

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