

Method (precision) for pressure calibration of one-inch standard condenser microphones by the reciprocity technique

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- Electronic Engineering Association
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- Hearing Aid Industry Association
- Institute of Physics
- Institute of Sound and Vibration Research
- Medical Research Council
- Royal Aeronautical Society
- Royal National Institute for the Deaf
- Royal Society of Medicine
- Society of Hearing Aid Audiologists Limited

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National foreword

This British Standard has been prepared under the direction of the Electronic Equipment Standards Committee and is identical with IEC Publication 327:1971 *“Precision method for pressure calibration of one-inch standard condenser microphones by the reciprocity technique”*.

Terminology and conventions. The text of the International Standard has been approved as suitable for publication, without deviation, as a British Standard. Some terminology and certain conventions are not identical with those used in British Standards; attention is especially drawn to the following.

Wherever the word “recommendation” appears, referring to this standard, it should be interpreted as “British Standard”.

NOTE *Textual errors.* When adopting the text of the International Standard, the errors and irregularities listed below were noticed. They have been reported to the International Electrotechnical Commission in a proposal to amend the text of the International Standard.

- 3.1 paragraph 2, line 1: “capacitative” should be read as “capacitive”.
- 3.1 paragraph 2, line 5: “groundshield” should be read as “ground-shield”.
- 3.2 “Unit: volt per newton per square metre. $\text{V}/(\text{Nm}^{-2})$ ” should be read as “Unit: volt per pascal. V/Pa ”^a.
- 3.2.1 line 2: “ $\text{V}/(\text{Nm}^{-2})$ ” should be read as “ V/Pa ”^a.
- 3.2.1 line 3: “ 1 Nm^{-2} ” should be read as “ 1 Pa ”^a.
- 3.2.2 line 1: “pressute” should be read as “pressure”.
- 3.4 “Unit: newton second per metre to the fifth. Nsm^{-5} ” should be read as “Unit: pascal second per cubic metre. $\text{Pa s}/\text{m}^3$ ”^a.
- 3.5 note 2 (twice): “ 10^5 Nm^{-2} ” should be read as “ 10^5 Pa ”^a.
- 4.1.2 line 1: “sensitivitise” should be read as “sensitivities”.
- 4.7.1 line 4: “ $1 \text{ V}/(\text{Nm}^{-2})$ ” should be read as “ $1 \text{ V}/\text{Pa}$ ”^a.

^a Incorporates current BSI policy regarding units as well as aligning this standard with BS 5678 [IEC 402] *“Method (simplified) for pressure calibration of one-inch condenser microphones by the reciprocity technique”* and BS 5679 [IEC 486] *“Method (precision) for free-field calibration of one-inch standard condenser microphones by the reciprocity technique”*.

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Summary of pages

This document comprises a front cover, an inside front cover, pages i to iv, pages 1 to 13 and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

