

This Standard is confirmed.  
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*August 1999*

**BS 7703 :**  
**Part 1 : 1993**  
**ISO 9614-1 :**  
**1993**

# **Acoustics — Determination of sound power levels of noise sources using sound intensity**

## **Part 1. Measurement at discrete points**

UDC 534.61

## Committees responsible for this British Standard

The preparation of this British Standard was entrusted by the Environment and Pollution Standards Policy Committee (EPC/-) to Technical Committee EPC/1, upon which the following bodies were represented:

Association of Consulting Engineers  
British Broadcasting Corporation  
British Occupational Hygiene Society  
British Telecommunications plc  
Department of Health  
Department of the Environment (Building Research Establishment)  
Department of Trade and Industry (National Physical Laboratory)  
Health and Safety Executive  
Institute of Acoustics  
Institute of Physics  
Institute of Sound and Vibration Research  
Institution of Electrical Engineers  
Royal Institute of British Architects  
Society of Environmental Engineers

The following bodies were also represented in the drafting of the standard, through subcommittees and panels:

Advanced Manufacturing Technology Research Institute  
Agricultural Engineers' Association  
British Cement Association  
British Compressed Air Society  
British Industrial Truck Association  
British Steel plc  
Construction Industry Research and Information Association  
Department of Trade and Industry (National Engineering Laboratory)  
EEA (Association of Electronics, Telecommunications and Business Equipment Industries)  
Engineering Industries Association  
Fan Manufacturers' Association  
Federation of Associations of Specialists and Subcontractors  
Federation of Manufacturers of Construction Equipment and Cranes  
Federation of Piling Specialists  
Institution of Mechanical Engineers  
Rotating Electrical Machines Association (BEAMA Ltd.)  
University of Liverpool  
University of Manchester

This British Standard, having been prepared under the direction of the Environment and Pollution Standards Policy Committee, was published under the authority of the Standards Board and comes into effect on  
15 September 1993

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The following BSI references relate to the work on this standard:  
Committee reference EPC/1  
Draft for comment 89/53618 DC

ISBN 0 580 22279 9

### Amendments issued since publication

| Amd. No. | Date | Text affected |
|----------|------|---------------|
|          |      |               |
|          |      |               |
|          |      |               |
|          |      |               |
|          |      |               |

**Amendment No. 1**  
**published and effective from 15 December 1995**  
**to BS 7703 : Part 1 : 1993**

**Acoustics — Determination of sound power levels of noise**  
**sources using sound intensity**  
**Part 1. Measurement at discrete points**

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NOTE. The European Committee for Standardization (CEN) has accepted ISO 9614-1 : 1993 as a European Standard designated as EN ISO 9614-1 : 1995. This amendment implements EN ISO 9614-1 : 1995 as a British Standard in the BS EN series.

**Implementation of European Standard**

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**Front cover**

Delete the outside front cover and substitute the attached.

**AMD 8934/December 1995**  
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**National foreword**

At the end of paragraph 1 insert the following paragraph.

In 1995 the European Committee for Standardization (CEN) accepted ISO 9614-1 : 1993 as European Standard EN ISO 9614-1 : 1995. As a consequence of implementing the European Standard this British Standard is renumbered as BS EN ISO 9614-1 and any reference to BS 7703 : Part 1 should be read as a reference to BS EN ISO 9614-1.

**AMD 8934/December 1995**  
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**EN title page and foreword**

Immediately after the national foreword insert the attached EN title page and foreword page.

**AMD 8934/December 1995**  
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# **Acoustics — Determination of sound power levels of noise sources using sound intensity**

## **Part 1. Measurement at discrete points**

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ICS 17.140.10

Descriptors: Acoustics, sound sources, noise (sound), tests, acoustic, tests, determination, sound power, acoustic measurements

English version

## Acoustics — Determination of sound power levels of noise sources using sound intensity — Part 1: Measurement at discrete points

(ISO 9614-1 : 1993)

Acoustique — Détermination par intensimétrie des niveaux de puissance acoustique émis par les sources de bruit — Partie 1: Mesurages par points (ISO 9614-1 : 1993)

Akustik — Bestimmung der Schalleistungspegel von Schallquellen aus Schallintensitätsmessungen — Teil 1: Messungen an diskreten Punkten (ISO 9614-1 : 1993)

This European Standard was approved by CEN on 1995-02-02. CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

# CEN

European Committee for Standardization  
Comité Européen de Normalisation  
Europäisches Komitee für Normung

**Central Secretariat: rue de Stassart 36, B-1050 Brussels**

## **Foreword**

The text of the International Standard has been taken as a European Standard by the Technical Committee CEN/TC 211, Acoustics, from ISO/TC 43, Acoustics, of the International Organization for Standardization (ISO).

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by December 1995, and conflicting national standards shall be withdrawn at the latest by October 1995.

This European Standard has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EC Directive(s).

According to the CEN/CENELEC Internal Regulations, the following countries are bound to implement this European Standard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

# Contents

|                                                                           | Page               |
|---------------------------------------------------------------------------|--------------------|
| Committees responsible                                                    | Inside front cover |
| National foreword                                                         | ii                 |
| <b>Method</b>                                                             |                    |
| 1 Scope                                                                   | 1                  |
| 2 Normative references                                                    | 1                  |
| 3 Definitions                                                             | 1                  |
| 4 General requirements                                                    | 3                  |
| 5 Acoustic environment                                                    | 4                  |
| 6 Instrumentation                                                         | 5                  |
| 7 Installation and operation of the source                                | 5                  |
| 8 Measurement of normal sound intensity component levels                  | 6                  |
| 9 Calculation of sound power level                                        | 7                  |
| 10 Information to be reported                                             | 8                  |
| <b>Tables</b>                                                             |                    |
| 1 Bias error factor, $K$                                                  | 3                  |
| 2 Uncertainty in the determination of sound power levels                  | 4                  |
| B.1 Error factor $\Delta$                                                 | 13                 |
| B.2 Values for factor $C$                                                 | 14                 |
| B.3 Actions to be taken to increase grade of accuracy of determination    | 14                 |
| <b>Figures</b>                                                            |                    |
| 1 Preferred initial measurement surfaces                                  | 6                  |
| B.1 Scheme for the procedure for achieving the desired grade of accuracy  | 15                 |
| <b>Annexes</b>                                                            |                    |
| A (normative) Calculation of field indicators                             | 10                 |
| B (normative) Procedure for achieving a desired grade of accuracy         | 12                 |
| C (informative) Effects of airflow on measurement of sound intensity      | 16                 |
| D (informative) Effect of sound absorption within the measurement surface | 17                 |
| E (informative) Bibliography                                              | 18                 |