
**Acoustics — Noise emitted by machinery
and equipment — Engineering method
for the determination of emission sound
pressure levels *in situ* at the work station
and at other specified positions using
sound intensity**

*Acoustique — Bruits émis par les machines et les équipements —
Méthode d'expertise pour la détermination par intensimétrie des
niveaux de pression acoustique d'émission in situ au poste de travail et
en d'autres positions spécifiées*



PDF disclaimer

This PDF file may contain embedded typefaces. In accordance with Adobe's licensing policy, this file may be printed or viewed but shall not be edited unless the typefaces which are embedded are licensed to and installed on the computer performing the editing. In downloading this file, parties accept therein the responsibility of not infringing Adobe's licensing policy. The ISO Central Secretariat accepts no liability in this area.

Adobe is a trademark of Adobe Systems Incorporated.

Details of the software products used to create this PDF file can be found in the General Info relative to the file; the PDF-creation parameters were optimized for printing. Every care has been taken to ensure that the file is suitable for use by ISO member bodies. In the unlikely event that a problem relating to it is found, please inform the Central Secretariat at the address given below.

© ISO 2003

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 0111
Fax + 41 22 749 0947
E-mail copyright@iso.org
Web www.iso.org

Published in Switzerland

Contents

Page

Foreword	iv
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Measurement uncertainty	3
5 Principle	4
6 Instrumentation	4
6.1 General	4
6.2 Calibration	4
7 Installation and operation of the source	5
7.1 General	5
7.2 Location of the machine	5
7.3 Mounting of the machine	5
7.4 Auxiliary equipment	6
7.5 Operation of the machine under test	6
8 Test procedure	7
8.1 Applicability	7
8.2 Measurement time interval	7
8.3 Measurements	8
8.4 Wind and gas flows	9
8.5 Criteria for qualification of the measurement	9
8.6 Criterion for background noise	9
8.7 Frequency range of measurements	9
8.8 Evaluation of the measurement result	9
9 Information to be recorded	10
9.1 General	10
9.2 Machine under test	10
9.3 Test conditions	10
9.4 Acoustic environment	10
9.5 Instrumentation	10
9.6 Location of specified positions	11
9.7 Noise data	11
10 Information to be reported	11
Annex A (normative) Criterion for the adequacy of the direction of the sound intensity vector	12
Annex B (normative) Procedure for frequencies higher than 5 000 Hz	14
Annex C (normative) Procedure in case the measurement fails to qualify	15
Annex D (informative) Example of a test table	16
Bibliography	17