



**Acoustics—Declared noise emission  
values of information technology and  
telecommunications equipment**



AS ISO 9296:2019

This Australian Standard ® was prepared by EV-010, Acoustics Community Noise. It was approved on behalf of the Council of Standards Australia on 27 February 2019.

This Standard was published on 19 March 2019.

The following are represented on Committee EV-010:

- Association of Australasian Acoustical Consultants
- Australian Acoustical Society
- Austroads
- Bureau of Steel Manufacturers of Australia
- Department of Defence (Australian Government)
- Engineers Australia
- University of Sydney

This Standard was issued in draft form for comment as DR AS ISO 9296:2018.

### **Keeping Standards up-to-date**

Ensure you have the latest versions of our publications and keep up-to-date about Amendments, Rulings, Withdrawals, and new projects by visiting:

[www.standards.org.au](http://www.standards.org.au)

ISBN 978 1 76072 407 8



# **Acoustics—Declared noise emission values of information technology and telecommunications equipment**

First published as AS 3757—1990.  
Revised and redesignated as AS ISO 9296:2019.

## **COPYRIGHT**

© ISO 2019 — All rights reserved  
© Standards Australia Limited 2019

All rights are reserved. No part of this work may be reproduced or copied in any form or by any means, electronic or mechanical, including photocopying, without the written permission of the publisher, unless otherwise permitted under the Copyright Act 1968 (Cth).

## Preface

This Standard was prepared by the Australian members of the Joint Standards Australia/Standards New Zealand Committee EV-010, Acoustics Community Noise, to supersede AS 3757—1990, *Acoustics—Declared noise emission values of computers and business equipment*.

The objective of this Standard is to provide acoustical noise emission data for information technology and telecommunications equipment (ITT equipment) to allow users, planners, manufacturers and authorities to compare noise emissions from different products, for installation acoustic planning and workplace noise immission requirements.

It specifies —

- (a) for a batch of equipment, the method for determining the following values:
  - (i) the declared mean A-weighted sound power level, LWA,m;
  - (ii) the declared mean A-weighted emission sound pressure level, LpA,m;
  - (iii) the statistical adder for verification, Kv; and
  - (iv) the statistical upper limit A-weighted sound power level, LWA,c;
- (b) how acoustical and product information is to be published electronically or in hard-copy format in technical documents or other product literature supplied to users by the manufacturer or declarer;
- (c) the method for verifying the noise emission values that are declared by the manufacturer or declarer.

This Standard is identical with, and has been reproduced from, ISO 9296-2017, *Acoustics — Declared noise emission values of information technology and telecommunications equipment*.

As this document has been reproduced from an International Standard, the following applies:

- (i) In the source text “this International Standard” should read “this Australian Standard”.
- (ii) A full point substitutes for a comma when referring to a decimal marker.

Australian or Australian/New Zealand Standards that are identical adoptions of international normative references may be used interchangeably. Refer to the online catalogue for information on specific Standards.

The terms “normative” and “informative” are used in Standards to define the application of the appendices or annexes to which they apply. A “normative” appendix or annex is an integral part of a Standard, whereas an “informative” appendix or annex is only for information and guidance.

# Contents

<b>Preface</b> .....	<b>ii</b>
<b>Foreword</b> .....	<b>iv</b>
<b>Introduction</b> .....	<b>v</b>
<b>1 Scope</b> .....	<b>1</b>
<b>2 Normative references</b> .....	<b>2</b>
<b>3 Terms and definitions</b> .....	<b>2</b>
3.1 General definitions.....	2
3.2 Definitions relating to acoustics.....	3
3.3 Definitions relating to statistics.....	4
<b>4 Conformity requirements</b> .....	<b>5</b>
4.1 For declaration.....	5
4.2 For verification.....	6
<b>5 Determination of the noise emission values to declare</b> .....	<b>6</b>
5.1 General.....	6
5.2 Determination of the declared mean A-weighted sound power level, $L_{WA,m}$ .....	6
5.3 Determination of the declared mean A-weighted emission sound pressure level, $L_{pA,m}$ .....	7
5.4 Determination of the statistical adder for verification, $K_v$ .....	7
<b>6 Presentation of declared noise emission values</b> .....	<b>7</b>
6.1 Required information.....	7
6.2 Additional information.....	8
<b>7 Verification of the statistical upper limit A-weighted sound power level, <math>L_{WA,c}</math></b> .....	<b>8</b>
7.1 General.....	8
7.2 Verification of $L_{WA,c}$ for a batch of equipment.....	8
<b>Annex A</b> (normative) <b>Procedure for determining the statistical adder for verification, <math>K_v</math></b> .....	<b>10</b>
<b>Annex B</b> (informative) <b>Examples of noise emission declarations</b> .....	<b>13</b>
<b>Annex C</b> (informative) <b>Character of noise</b> .....	<b>15</b>
<b>Bibliography</b> .....	<b>16</b>

This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

- 
- [Looking for additional Standards? Visit Intertek Inform Infostore](#)
  - [Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation](#)
-