

MAURITIAN  
STANDARD

MS ISO  
80000-8:2020

Second Edition  
2020-10-17

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**Quantities and units –**  
Part 8:  
Acoustics

ICS: 01.060

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**Mauritius Standards Bureau  
Moka**

## National Foreword

This Mauritian Standard is identical with the International Standard **ISO 80000-8:2020**, *Quantities and units – Part 8: Acoustics*

It has been adopted as a national standard upon the recommendation of the **Metrology Standards Committee**.

It was approved by the Standards Council on 25 September 2020 and was notified in the Government Gazette on 17 October 2020\*.

This second edition cancels and replaces the first edition MS ISO 80000-8: 2007 which has been technically revised.

For the purpose of this standard the following changes should be made:

- (i) the words 'International Standard' should be replaced by 'Mauritian Standard'
- (ii) the 'decimal comma' should be replaced by 'decimal point'.

### \* General Notice No 1485 of 2020



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PREVIEW

## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see [www.iso.org/directives](http://www.iso.org/directives)).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see [www.iso.org/patents](http://www.iso.org/patents)).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see [www.iso.org/iso/foreword.html](http://www.iso.org/iso/foreword.html).

This document was prepared by Technical Committee ISO/TC 12, *Quantities and units*, in collaboration with IEC/TC 25, *Quantities and units*.

This second edition cancels and replaces the first edition (ISO 80000-8:2007), which has been technically revised.

The main changes compared to the previous edition are as follows:

- the table giving the quantities and units has been simplified;
- some definitions and the remarks have been stated physically more precisely.

A list of all parts in the ISO 80000 and IEC 80000 series can be found on the ISO and IEC websites.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at [www.iso.org/members.html](http://www.iso.org/members.html).

# Quantities and units —

## Part 8: Acoustics

### 1 Scope

This document gives names, symbols, definitions and units for quantities of acoustics. Where appropriate, conversion factors are also given.

### 2 Normative references

There are no normative references in this document.

### 3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

Names, symbols, definitions and units for quantities used in acoustics are given in [Table 1](#).

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <http://www.electropedia.org/>

#### 3.1

##### **sound particle**

##### **material element**

smallest element of the medium that represents the medium's mean density

[SOURCE: ISO 18405:2017, 3.1.1.5, modified - Note 1 to entry deleted.]

### 4 Remark on the use of the symbols lb and lg

In accordance with ISO 80000-2, the abbreviations lb and lg are used to indicate logarithms to the base 2 ( $\log_2$ ) and base 10 ( $\log_{10}$ ), respectively.