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Kroppsburen elektronik – Enheter och system – Del 402-2: Funktionsprovning av kroppsburen elektronik för träning – Stegräkning

*Wearable electronic devices and technologies –
Part 402-2: Performance measurement of fitness wearables –
Step counting*

Som svensk standard gäller europastandarden EN IEC 63203-402-2:2024. Den svenska standarden innehåller den officiella engelska språkversionen av EN IEC 63203-402-2:2024.

Nationellt förord

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English Version

Wearable electronic devices and technologies - Part 402-2:
Performance measurement of fitness wearables - Step counting
(IEC 63203-402-2:2024)

Technologies et dispositifs électroniques prêts-à-porter -
Partie 402-2: Mesure des performances des dispositifs
prêts-à-porter d'activité physique - Podomètres
(IEC 63203-402-2:2024)

Tragbare elektronische Geräte und Technologien - Teil 402-
2: Performance Messung von Fitness Wearables -
Schrittzählung
(IEC 63203-402-2:2024)

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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

European foreword

The text of document 124/249/FDIS, future edition 1 of IEC 63203-402-2, prepared by IEC/TC 124 "Wearable electronic devices and technologies" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 63203-402-2:2024.

The following dates are fixed:

- latest date by which the document has to be implemented at national (dop) 2024-12-06 level by publication of an identical national standard or by endorsement
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Endorsement notice

The text of the International Standard IEC 63203-402-2:2024 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following note has to be added for the standard indicated:

ISO 20342-1:2022 NOTE Approved as EN ISO 20342-1:2022 (not modified)



INTERNATIONAL STANDARD

NORME INTERNATIONALE



**Wearable electronic devices and technologies –
Part 402-2: Performance measurement of fitness wearables – Step counting**

**Technologies et dispositifs électroniques prêts-à-porter –
Partie 402-2: Mesure des performances des dispositifs prêts-à-porter d'activité
physique – Podomètres**

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CONTENTS

FOREWORD.....	4
INTRODUCTION.....	6
1 Scope.....	7
2 Normative references	7
3 Terms, definitions and abbreviated terms	7
3.1 Terms and definitions.....	7
3.2 Abbreviated terms.....	8
4 Test methods and procedures.....	8
4.1 General.....	8
4.2 Apparatus	9
4.2.1 General	9
4.2.2 Treadmill	9
4.2.3 Video recorder.....	9
4.3 Preparation.....	10
4.3.1 Subject requirements.....	10
4.3.2 Number of subjects.....	10
4.3.3 Gender – Balance.....	10
4.3.4 Age.....	10
4.3.5 BMI – Range.....	10
4.3.6 Wearing position of DUT	10
4.3.7 Balanced speed conditions	10
4.4 Testing conditions.....	11
4.4.1 Temperature	11
4.4.2 Ambient light	11
4.4.3 Humidity	11
4.4.4 Apparatus setting.....	11
4.4.5 DUT setting	12
4.5 Measurement test method.....	12
4.5.1 Start and end of test	12
4.5.2 Measurement procedure	12
4.6 Alternative test method	13
4.6.1 General	13
4.6.2 Test automation.....	13
5 Data analysis.....	13
5.1 Step count accuracy calculation.....	13
5.2 Accuracy requirements	14
6 Test report.....	14
Annex A (informative) Example of a PAR-Q Questionnaire.....	16
Annex B (informative) Reference criteria for speed condition	17
Annex C (informative) Particular guidance and rationale	18
Bibliography.....	19

Figure 1 – Overview of test environment and methods	9
Figure B.1 – Running speed of the overall top ten per age group	17
Table 1 – Conversion table of the speed unit	11
Table B.1 – Difference in walking speeds by age	17

INTERNATIONAL ELECTROTECHNICAL COMMISSION

WEARABLE ELECTRONIC DEVICES AND TECHNOLOGIES –**Part 402-2: Performance measurement of fitness wearables –
Step counting**

FOREWORD

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IEC 63203-402-2 has been prepared by IEC technical committee 124: Wearable electronic devices and technologies. It is an International Standard.

The text of this International Standard is based on the following documents:

Draft	Report on voting
124/249/FDIS	124/262/RVD

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/publications.

A list of all parts in the IEC 63203 series, published under the general title *Wearable electronic devices and technologies*, can be found on the IEC website.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under webstore.iec.ch in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn, or
- revised.

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INTRODUCTION

The step counting feature is a common functionality in wearable devices. The accurate measurement and reporting of the step count is an important factor in the acceptance by consumers of that step count. Data from wearable devices may be useful in helping to improve the health and well-being of consumers that use wearable devices. The usability of the data to improve health outcomes is dependent on the reliability of the data to facilitate their acceptance by consumers and health improvement.

This document defines and provides standard test methods for evaluating the performance and reliability of step counting in wearable devices. The benefit of using this document is that it provides a method to compare the step counting function of a wearable device against the actual step count, which can provide manufacturers with a method to improve the step count functionality of their devices.

WEARABLE ELECTRONIC DEVICES AND TECHNOLOGIES –

Part 402-2: Performance measurement of fitness wearables – Step counting

1 Scope

This part of IEC 63203 specifies test methods for measuring and evaluating the performance, reliability, and accuracy of the step counting feature in any wearable device that can count steps (e.g. activity and fitness trackers, smart bands, smart shoes, and smart insoles).

These standard test methods exclude the evaluation of data associated with travel distance or calorie consumption.

2 Normative references

There are no normative references in this document.