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

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 05/24

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EN IEC 63203-402-2

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**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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EN IEC 63203-402-2:2024 (E)**European foreword**

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IEC 63203-402-2

Edition 1.0 2024-01

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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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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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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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

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

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|--------------|------------------|
| 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.

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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.

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