

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Wearable electronic devices and technologies –
Part 301-1: Test method of electrochromic films for wearable equipment**

**Technologies et dispositifs électroniques prêts-à-porter –
Partie 301-1: Méthode d'essai des films électrochromes pour les équipements
prêts-à-porter**





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INTERNATIONAL ELECTROTECHNICAL COMMISSION

WEARABLE ELECTRONIC DEVICES AND TECHNOLOGIES –

Part 301-1: Test method of electrochromic films for wearable equipment

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

Draft	Report on voting
124/263/FDIS	124/273/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.

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WEARABLE ELECTRONIC DEVICES AND TECHNOLOGIES –

Part 301-1: Test method of electrochromic films for wearable equipment

1 Scope

This part of IEC 63203-301-1 specifies procedures and definitions for the test method of electrochromic films for wearable equipment. This document deals with the colour changing range in visible light and the electrochromic properties of transmittance, response time and evaluation method of long-term stability. This document excludes applications of electrochromic films to displays.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60068-1, *Environmental testing – Part 1: General and guidance*

3 Terms and definitions

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

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3.1

transmittance

ratio of transmitted power to incident power for given conditions of spectral composition, polarization and geometrical distribution

Note 1 to entry: in optics, frequently expressed as transmittance density or as a percentage. In communication applications, generally expressed in decibels.

[SOURCE: IEC 60050-731:1991, 731-03-31]

3.2

response time

time from a sudden change of a control quantity until the corresponding change of an output quantity has reached a specified fraction of its final value

[SOURCE: IEC 60050-431:1980, 431-02-12]

3.3

darkening time

time when a control quality suddenly becomes saturated until the corresponding change of an output quantity has reached a dark stage of its final value