IEC 62908-12-10

Edition 3.0 2025-12

INTERNATIONAL STANDARD

REDLINE VERSION

Touch and interactive displays -
Part 12-10: Measurement methods of touch displays - Touch and electrical performance

ICS 31.120

ISBN 978-2-8327-0970-2

IEC 62908-12-10:2025-12(en)

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Touch and interactive displays - Part 12-10: Measurement methods of touch displays - Touch and electrical performance

FOREWORD

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IEC 62908-12-10 has been prepared by IEC technical committee 110: Electronic displays. It is an International Standard.

This third edition cancels and replaces the second edition published in 2023. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

a) added principle of force sensitive touch sensor module and force-output characteristics measurement;
b) added required equipment for force-output characteristic measurement of force sensitive touch sensor module;
c) added test method for force-output characteristics measurement.

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

Draft	Report on voting
110/1757/CDV	110/1794A/RVC

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 62908 series, published under the general title *Touch and interactive displays*, 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– withdrawn, or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.

1 Scope

This part of IEC 62908 specifies the standard measuring conditions and measurement methods for determining touch and hovering performance of a touch sensor module. This document is applicable to touch sensor modules, ~~where~~ whereas the structural relationship between touch sensor, touch controller, touch sensor module, display panel, touch display panel, and touch display module is defined in IEC 62908-1-2.

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*

IEC 62908-1-2*, Touch and interactive displays - Part 1-2: Generic - Terminology and letter symbols*

Bibliography

IEC TR 62908-1-3~~:2021~~, *Touch and interactive displays - Part 1-3: Generic - General introduction of pen touch technology*

ISO 7500-1, *Metallic materials - Calibration and verification of static uniaxial testing machines - Part 1: Tension/compression testing machines - Calibration and verification of the force-measuring system*