

INTERNATIONAL STANDARD



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



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CONTENTS

FOREWORD.....	5
1 Scope.....	7
2 Normative references	7
3 Terms and definitions	7
4 Measuring conditions.....	7
4.1 Standard measuring environmental conditions	7
4.2 Standard atmospheric conditions for reference measurements and tests	8
4.3 Standard positioning equipment and setup.....	8
4.4 Human operator alternative to standard positioning equipment	9
4.5 Test bar and touch pen	10
5 Touch performance measurement methods	11
5.1 General.....	11
5.2 Accuracy test.....	11
5.2.1 Purpose.....	11
5.2.2 Test procedure	11
5.2.3 Report	15
5.3 Repeatability or jitter test	15
5.3.1 Purpose.....	15
5.3.2 Test procedure	16
5.3.3 Report	18
5.4 Linearity test.....	18
5.4.1 Purpose.....	18
5.4.2 Test procedure	18
5.4.3 Report	21
5.5 Reproducibility test.....	21
5.5.1 Purpose.....	21
5.5.2 Test procedure	22
5.5.3 Report	23
5.6 Signal-to-noise ratio (SNR) test	24
5.6.1 Purpose.....	24
5.6.2 Test procedure	25
5.6.3 Report	26
5.7 Report rate test.....	26
5.7.1 Purpose.....	26
5.7.2 Test procedure	26
5.7.3 Report	27
5.8 Latency test.....	27
5.8.1 Purpose.....	27
5.8.2 Test procedure	27
5.8.3 Report	28
5.9 Electrical noise immunity test.....	28
5.9.1 Purpose.....	28
5.9.2 Test procedure	28
5.9.3 Report	29
5.10 Water droplet immunity test	29
5.10.1 Purpose.....	29
5.10.2 Test procedure	30

5.10.3	Report	30
5.11	Optical noise immunity test	30
5.11.1	Purpose	30
5.11.2	Test procedure	31
5.11.3	Report	31
5.12	Power consumption test	31
5.12.1	Purpose	31
5.12.2	Test procedure	31
5.12.3	Report	31
5.13	Perpendicular hover distance test	31
5.13.1	Purpose	31
5.13.2	Test procedure	31
5.13.3	Report	32
6	In-plane hovering performance measurement methods	32
6.1	General	32
6.2	Accuracy test	32
6.2.1	Purpose	32
6.2.2	Test procedure	32
6.2.3	Report	35
6.3	Repeatability or jitter test	35
6.3.1	Purpose	35
6.3.2	Test procedure	35
6.3.3	Report	38
6.4	Report rate test	38
6.4.1	Purpose	38
6.4.2	Test procedure	38
6.4.3	Report	40
Annex A (informative)	Electrical performance measurement methods of touch sensors	41
A.1	Resistance	41
A.1.1	General	41
A.1.2	Test samples	41
A.1.3	Measurement equipment	41
A.1.4	Procedure	41
A.1.5	Data analysis	42
A.1.6	Report	42
A.2	Trans-capacitance	42
A.2.1	General	42
A.2.2	Test samples	42
A.2.3	Measurement equipment	42
A.2.4	Procedure	42
A.2.5	Data analysis	43
A.2.6	Report	43
	Bibliography	44
	Figure 1 – Composition of test equipment	9
	Figure 2 – Concept of performance measurement	9
	Figure 3 – Example of manual test tool (left), positioning without triggering a touch event (middle) and recording a touch event (right)	10

Figure 4 – Examples of test bars.....	11
Figure 5 – Location of edge area and centre area	12
Figure 6 – Point grid	12
Figure 7 – Accuracy definition.....	13
Figure 8 – Example of measurement result and calculation of accuracy.....	15
Figure 9 – Repeatability in the touch sensor module	16
Figure 10 – Example of measurement result for repeatability	18
Figure 11 – Dragging line for linearity test.....	19
Figure 12 – Linearity definition.....	19
Figure 13 – Example of measurement and calculation of linearity	21
Figure 14 – Example of reproducibility test results	22
Figure 15 – Reproducibility test procedure	23
Figure 16 – Examples of measurements of reproducibility – Velocity dependence	24
Figure 17 – SNR definition concept.....	25
Figure 18 – Dragging direction for reporting time measurement	26
Figure 19 – Reporting time interval measurement	27
Figure 20 – Latency measurement	27
Figure 21 – Example of the effect of external noise.....	28
Figure 22 – External noise injection	29
Figure 23 – Report of external noise immunity	29
Figure 24 – Example of water drop effect.....	30
Figure 25 – Water droplet test procedure	30
Figure 26 – Perpendicular hover distance measurement.....	32
Figure 27 – Point grid	33
Figure 28 – Accuracy definition for in-plane of XY coordinates on the target projection plane (l) of the active area	33
Figure 29 – Accuracy definition for Z coordinate on the target projection plane (l) of the active area.....	34
Figure 30 – Repeatability for in-plane of XY coordinates on the target projection plane (l) of the active area.....	36
Figure 31 – Repeatability for Z coordinate on the target projection plane (l) of the active area.....	36
Figure 32 – Dragging direction of in-plane for reporting time measurement.....	39
Figure 33 – Dragging direction of Z -axis for reporting time measurement.....	39
Figure 34 – Reporting time interval measurement	40
Figure A.1 – Diagrammatic representation of measurement of resistance	42
Figure A.2 – Diagrammatic representation of measurement of capacitance.....	43
Table 1 – Standard conditions for reference measurements and tests.....	8
Table A.1 – Specification of LCR impedance meter.....	41

INTERNATIONAL ELECTROTECHNICAL COMMISSION

TOUCH AND INTERACTIVE DISPLAYS –

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

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

This second edition cancels and replaces the first edition published in 2017. This edition constitutes a technical revision.

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

- a) added hovering performance measurement methods, especially in-plane characteristics at a constant distance from the touch sensor;
- b) added pen touch performance.

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

Draft	Report on voting
110/1434/CDV	110/1480A/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

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TOUCH AND INTERACTIVE DISPLAYS –

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

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 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*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in IEC 60068-1 and IEC 62908-1-2 apply.

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

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

4 Measuring conditions

4.1 Standard measuring environmental conditions

Measurements shall be carried out under the standard environmental conditions:

- temperature: 25 °C ± 3 °C,
- relative humidity: 25 % RH to 85 % RH,
- atmospheric pressure: 86 kPa to 106 kPa.

When different environmental conditions are used, they shall be noted in the measurement report.