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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 7
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
4.6 Equipment for measurement of force-output characteristics 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 12
5.2.3 Report 16
5.3 Repeatability or jitter test 16
5.3.1 Purpose 16
5.3.2 Test procedure 17
5.3.3 Report 19
5.4 Linearity test 19
5.4.1 Purpose 19
5.4.2 Test procedure 19
5.4.3 Report 22
5.5 Reproducibility test 22
5.5.1 Purpose 22
5.5.2 Test procedure 23
5.5.3 Report 24
5.6 Signal-to-noise ratio (SNR) test 25
5.6.1 Purpose 25
5.6.2 Test procedure 26
5.6.3 Report 27
5.7 Report rate test 27
5.7.1 Purpose 27
5.7.2 Test procedure 27
5.7.3 Report 28
5.8 Latency test 28
5.8.1 Purpose 28
5.8.2 Test procedure 28
5.8.3 Report 29
5.9 Electrical noise immunity test 29
5.9.1 Purpose 29
5.9.2 Test procedure 29
5.9.3 Report 30
5.10 Water droplet immunity test 30

5.10.1 Purpose 30
5.10.2 Test procedure 31
5.10.3 Report 31
5.11 Optical noise immunity test 31
5.11.1 Purpose 31
5.11.2 Test procedure 32
5.11.3 Report 32
5.12 Power consumption test 32
5.12.1 Purpose 32
5.12.2 Test procedure 32
5.12.3 Report 32
5.13 Perpendicular hover distance test 32
5.13.1 Purpose 32
5.13.2 Test procedure 32
5.13.3 Report 33
5.14 Force-output characteristics test 33
5.14.1 Purpose 33
5.14.2 Test procedure 33
5.14.3 Report 34
6 In-plane hovering performance measurement methods 34
6.1 General 34
6.2 Accuracy test 34
6.2.1 Purpose 34
6.2.2 Test procedure 35
6.2.3 Report 37
6.3 Repeatability or jitter test 38
6.3.1 Purpose 38
6.3.2 Test procedure 38
6.3.3 Report 40
6.4 Report rate test 41
6.4.1 Purpose 41
6.4.2 Test procedure 41
6.4.3 Report 42
Annex A (informative) Electrical performance measurement methods of touch sensors 43
A.1 Resistance 43
A.1.1 General 43
A.1.2 Test samples 43
A.1.3 Measurement equipment 43
A.1.4 Procedures 43
A.1.5 Data analysis 44
A.1.6 Report 44
A.2 Trans-capacitance 44
A.2.1 General 44
A.2.2 Test samples 44
A.2.3 Measurement equipment 44
A.2.4 Procedure 44
A.2.5 Data analysis 45
A.2.6 Report 45

Bibliography 46

Figure 1 – Composition of test equipment 8
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) 9
Figure 4 – Examples of test bars 10
Figure 5 – Force sensor added to Figure 1 (in red) for measurement of force-output characteristics of a force sensitive touch sensor module 11
Figure 6 – Block diagram showing functions and data added to Figure 2 (in red) for force-output characteristics measurement 11
Figure 7 – Location of edge area and centre area 12
Figure 8 – Point grid 13
Figure 9 – Accuracy definition 13
Figure 10 – Example of measurement result and calculation of accuracy 16
Figure 11 – Repeatability in the touch sensor module 17
Figure 12 – Example of measurement result for repeatability 19
Figure 13 – Dragging line for linearity test 20
Figure 14 – Linearity definition 20
Figure 15 – Example of measurement and calculation of linearity 22
Figure 16 – Example of reproducibility test results 23
Figure 17 – Reproducibility test procedure 24
Figure 18 – Examples of measurements of reproducibility – Velocity dependence 25
Figure 19 – SNR definition concept 26
Figure 20 – Dragging direction for reporting time measurement 27
Figure 21 – Reporting time interval measurement 28
Figure 22 – Latency measurement 28
Figure 23 – Example of the effect of external noise 29
Figure 24 – External noise injection 30
Figure 25 – Report of external noise immunity 30
Figure 26 – Example of water drop effect 31
Figure 27 – Water droplet test procedure 31
Figure 28 – Perpendicular hover distance measurement 33
Figure 29 – Examples of force-output characteristics 33
Figure 30 – Point grid 35
Figure 31 – Accuracy definition for in-plane of XY coordinates on the target projection plane (l) of the active area 36
Figure 32 – Accuracy definition for Z coordinate on the target projection plane (l) of the active area 36
Figure 33 – Repeatability for in-plane of XY coordinates on the target projection plane (l) of the active area 38
Figure 34 – Repeatability for Z coordinate on the target projection plane (l) of the active area 39
Figure 35 – Dragging direction of in-plane for reporting time measurement 41
Figure 36 – Dragging direction of Z-axis for reporting time measurement 42

Figure 37 – Reporting time interval measurement 42
Figure A.1 – Diagrammatic representation of measurement of resistance 44
Figure A.2 – Diagrammatic representation of measurement of capacitance 45

Table 1 – Standard conditions for reference measurements and tests 8
Table A.1 – Specification of LCR impedance meter 43

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

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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, 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, *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*

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