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Interested committees:

Title: BS IEC 62899-302-7 Printed electronics

Part 302-7: Equipment -Measurement methods for Inkjet printing dot placement evaluation for printed electronics

Please notify the secretary if you are aware of any keywords that might assist in classifying or identifying the standard or if the content of this standard

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- ii) affects other national standard(s)
- iii) requires additional national guidance or information

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Introduction

This draft standard is based on national and international discussions. Your comments on this draft are invited and will assist in the preparation of the consequent standard.

For international standards, comments will be reviewed by the relevant UK national committee before sending the consensus UK vote and comments to the international committee, which will then decide appropriate action. If the international standard is approved, it is usual for the text to be published as a British Standard.

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UK Vote

Please indicate whether you consider the UK should submit a negative (with supporting technical reasons) or positive vote on this draft. Please indicate if you are aware of any reason why this draft standard should not be published as a British Standard.

Submission of Comments

- **Annotated drafts are not acceptable and will be rejected.**
- All comments should be submitted online at <https://standardsdevelopment.bsigroup.com/>. You will need to register in order to comment.

Template for comments and secretariat observations

Date: xx/xx/20xx	Document: ISO/DIS xxxx
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1	2	(3)	4	5	(6)	7
MB	Clause No./ Subclause No./Annex (e.g. 3.1)	Paragraph/Figure/ Table/Note	Type of comment	Commend (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
	3.1	Definition 1	ed	Definition is ambiguous and needs clarifying.	Amend to read '...so that the mains connector to which no connection...'	
	6.4	Paragraph 2	te	The use of the UV photometer as an alternative cannot be supported as serious problems have been encountered in its use in the UK.	Delete reference to UV photometer.	



119/450/CD

COMMITTEE DRAFT (CD)

PROJECT NUMBER:

IEC 62899-302-7 ED1

DATE OF CIRCULATION:

2023-07-28

CLOSING DATE FOR COMMENTS:

2023-09-22

SUPERSEDES DOCUMENTS:

119/415/NP, 119/444/RVN

IEC TC 119 : PRINTED ELECTRONICS

SECRETARIAT:

Korea, Republic of

SECRETARY:

Mr Kyung-Tae Kang

OF INTEREST TO THE FOLLOWING COMMITTEES:

PROPOSED HORIZONTAL STANDARD:



Other TC/SCs are requested to indicate their interest, if any, in this CD to the secretary.

FUNCTIONS CONCERNED:

☐ EMC

☐ ENVIRONMENT

☐ QUALITY ASSURANCE

☐ SAFETY

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Recipients of this document are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

Recipients of this document are invited to submit, with their comments, notification of any local regulations or technical reasons that may exist and should be considered should this proposal proceed, recognizing that failure to address such requirements could result in the need for new or existing "In Some Countries" clauses. (SEE [AC/22/2007](#) OR [NEW GUIDANCE DOC](#)).

TITLE:

IEC 62899-302-7 ED1: Printed electronics - Part 302-7: Equipment -Measurement methods for Inkjet printing dot placement evaluation for printed electronics

NOTE FROM TC/SC OFFICERS:

National Committees are kindly requested to send their comments, if any, to the IEC voting and commenting system before 15 September 2023 so that TC 119/WG 6 could discuss the comments during the working group meeting in Montreal, Canada, on 2023-09-21.

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

PRINTED ELECTRONICS –

**Part 302-7: Measurement methods for Inkjet printing dot placement
evaluation for printed electronics**

FOREWORD

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International Standard IEC 62899-302-7 has been prepared by IEC technical committee 119: Printed Electronics.

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

FDIS	Report on voting
XX/XX/FDIS	XX/XX/RVD

Full information on the voting for the approval of this International Standard can be found in the report on voting indicated in the above table.

This document has been drafted in accordance with the ISO/IEC Directives, Part 2.

115 The committee has decided that the contents of this document will remain unchanged until the
116 stability date indicated on the IEC website under "<http://webstore.iec.ch>" in the data related to
117 the specific document. At this date, the document will be

- 118 • reconfirmed,
- 119 • withdrawn,
- 120 • replaced by a revised edition, or
- 121 • amended.

122

123 The National Committees are requested to note that for this document the stability date
124 is 20XX..

125 THIS TEXT IS INCLUDED FOR THE INFORMATION OF THE NATIONAL COMMITTEES AND WILL BE DELETED
126 AT THE PUBLICATION STAGE.

127

128

INTRODUCTION

129 Until recently, inkjet technologies were used only for imaging printing (conventional 'graphics
130 printing'). In addition to that, recent development of inkjet technologies, such as technologies
131 for inkjet print-head, functional ink and/or print-head driving technologies, allows us to apply
132 these technologies for another area called 'functional printing', including printed electronics.

133 Through this document, it is described how to measure 'inkjet printed position accuracy' to
134 obtain a proper output that has adequate print quality. In order to measure that inkjet printed
135 position accuracy, it is important to have proper medium that is described in IEC 62899-302-4.

136

PRINTED ELECTRONICS –

Part 302-7: Measurement methods for Inkjet printing dot placement evaluation for printed electronics

1 Scope

This part of IEC 62899 provides measurement methods for inkjet printing dot placement evaluation for printed electronics.

2 Normative reference

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.

3 Terms, definitions, and abbreviations

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

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

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

3.1

RGB

red, green and blue

one of colour space encoding

3.2

colour space encoding

digital encoding of a colour space, including the specification of a digital encoding method, and an encoding range

Note 1 to entry: Multiple colour space encodings can be defined based on a single colour space where the different colour space encodings have different digital encoding methods and/or encoding ranges. For example, 8-bit sRGB in accordance with IEC 61966-2-1, Multimedia systems and equipment – Colour measurement and management – Part 2-1: Colour management – Default RGB colour space – sRGB and 16-bit scRGB in accordance with IEC 61966-2-2, Multimedia systems and equipment – Colour measurement and management – Part 2-2: Colour management – Extended RGB colour space – scRGB are different colour space encodings based on a particular RGB colour space.

Note 2 to entry: A colour space encoding is defined with a number of colour channels, each channel corresponding to one dimension of the colour space. Encoded colour channel data values indicate a position along the corresponding dimension in the geometric colour space representation.

Note 3 to entry: sRGB is one of colour space encoding that is defined in IEC 61966-2-1..

Note 4 to entry: scRGB is one of colour space encoding that is defined in IEC 61966-2-2..

[SOURCE: IEV 845-32-018]