

INTERNATIONAL STANDARD

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Information technology — Office equipment — Minimum information to be included in specification sheets — Printers —

Part 1: Class 1 and Class 2 printers

*Technologies de l'information — Équipements de bureau — Information
minimale devant figurer dans les notices techniques — Imprimantes —*

Partie 1: Imprimantes classe 1 et classe 2



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Foreword

ISO (the International Organization for Standardization) and IEC (the International Electrical Commission) form the specialised system for worldwide standardisation. National Bodies that are members of ISO or IEC participate in the development of International Standards through technical committees established by the respective organisation to deal with particular fields of mutual interest. Other international organisations, governmental and non-governmental, in liaison with ISO and IEC, also take part to the work.

In the field of information technology, ISO and IEC have established a joint technical committee ISO/IEC JTC1. Draft International Standards adopted by the joint technical committee are circulated to national bodies for voting. Publication as an International Standard requires approval by at least 75% of the national bodies casting a vote.

International Standard ISO/IEC 11160-1, was prepared by Joint Technical Committee ISO/IEC JTC1, *Information technology*, Subcommittee SC28, *Office equipment*.

ISO/IEC 1160 consists of the following parts, under the general title *Information technology - Office equipment - Minimum information to be included in specification sheets - Printers*:

- *Part 1: Class 1 and Class 2 printers*
- *Part 2: Class 3 and Class 4 printers*

Annex A forms an integral part of this part of ISO/IEC 11160. Annexes B and C are for information only.

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Introduction

Printers of many different types and capacities are now available and their specifications vary so widely that it is difficult for potential users to assess which machine might best meet their requirements.

Information technology - Office equipment - Minimum information to be included in specification sheets - Printers -**Part 1: Class 1 and Class 2 printers****1 Scope**

This part of ISO/IEC 11160 specifies the minimum information that is to be included in the specification sheets of printers so that users may compare the characteristics of different machines and select a printer which meets their requirements.

It applies to printers that could be operated in an office environment. Printers requiring specially equipped rooms or specially instructed operators are not within the scope of this part of ISO/IEC 11160.

ISO/IEC 11160 will cover different classes of printers. This part covers Class 1 and Class 2 printers, as defined in annex A.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO/IEC 11160. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this part of ISO/IEC 11160 are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 216:1975 ¹⁾ ,	<i>Writing paper and certain classes of printed matter - Trimmed sizes - A and B series.</i>
ISO 269:1985,	<i>Correspondence envelopes - Designation and sizes.</i>
ISO 7779:1988 ¹⁾ ,	<i>Acoustics - Measurement of airborne noise emitted by computer and business equipment.</i>
ISO 9295:1988,	<i>Acoustics - Measurement of high-frequency noise emitted by computer and business equipment.</i>
ISO 9296:1988,	<i>Acoustics - Declared noise emission values of computer and business equipment.</i>
ISO/IEC 10561:1991 ¹⁾ ,	<i>Information technology - Printing devices - Method for measuring printer throughput.</i>
IEC 950:1991,	<i>Safety of information technology equipment, including electrical business equipment.</i>

3 Conformance

In order to comply with this part of ISO/IEC 11160, specification sheets shall contain, in the order shown, all items listed in clause 5 which are relevant to the machine being described.

4 Test and measurement conditions

Unless otherwise specified, all tests and measurements shall be conducted at the following conditions:

- Temperature: 18 °C to 25 °C
- Relative humidity: 30 % to 70 %
- Line voltage: rated input voltage
- Line frequency: rated frequency
- Paper size: A4
- Paper weight: 60 g/m² to 90 g/m²
- Paper transport direction: standard direction

¹⁾ Currently under revision

- Test pattern: as specified

Instead of A4 paper size, the size most commonly used in the country may be used, both for the test page and the copies. This shall be indicated in the specification sheet.

When weight of paper (g/m²) is given, it is assumed that the paper has been conditioned in the standard atmosphere defined in ISO 3066 (temperature 20 °C ± 2 °C; relative humidity 60 % to 70 %).

5 Information to be included in the specification sheets

Table 1 defines, for each parameter, the number and name of the parameter and a short description of the entry. These constitute the information to be included in the specification sheet.

The heading of the specification sheet shall indicate that it has been prepared in accordance with this part of ISO/IEC 11160. The numbers and headings of table 1 shall be used. Parameters which are not applicable may be ignored; the number of the other parameters shall remain unchanged.

The "Remarks and examples" column is provided to help prepare the information sheet, and is not intended to appear in the specification sheet. It is intended to be informative. Test methods to be applied, when not defined in other International Standards, are defined in this column.

Whenever a capacity is given in sheets, the reference paper weight shall be specified.

Table 1 - Information to be included

Parameter	Description of the entry	Remarks and examples
1 General data		
1.1 Printer class	Class 1 or Class 2 printer.	See annex A for description of classes.
1.2 Machine name, model and/or model number	Product name, model number.	
1.3 Type		State if the machine is desk-top, portable or floor-standing.
1.4 Printing method	The printing process used.	Non-impact: ink-jet, thermal transfer. Impact: daisy wheel, dot matrix.
1.5 Dot density	Horizontal and vertical dots per 25,4 mm. The design capability of the machine to place the dots.	Note that the theoretical writing resolution and the actual printing resolution may be different. If the dot positioning capability is adjustable, indicate the minimum and maximum capabilities.
1.6 Colour printing		
1.6.1 Monochrome	Specify which colour.	