

DECLARATION

OF

SPECIFICATION

ENTITLED

BASIC SPECIFICATION:

PROTECTION OF ELECTROSTATIC SENSITIVE DEVICES

PART 2: REQUIREMENTS FOR LOW HUMIDITY CONDITIONS

AS

THE IRISH STANDARD SPECIFICATION FOR

PROTECTION OF ELECTROSTATIC SENSITIVE DEVICES

PART 2: REQUIREMENTS FOR LOW HUMIDITY CONDITIONS

(BASIC SPECIFICATION)

Forfás in exercise of the power conferred by section 20 (3) of the Industrial Research and Standards Act, 1961 (No. 20 of 1961) and the Industrial Development Act, 1993 (No. 19 of 1993), and with the consent of the Minister for Enterprise and Employment, hereby declares as follows:

1. This instrument may be cited as the Standard Specification (Protection of Electrostatic Sensitive Devices. Part 2: Requirements for Low Humidity Conditions (Basic Specification)) Declaration, 1994.
2. (1) The Specification set forth in the Schedule to this declaration is hereby declared to be the standard specification for Protection of Electrostatic Sensitive Devices. Part 2: Requirements for Low Humidity Conditions (Basic Specification). The Schedule comprises the text of EN 100015-2 : 1993

(2) The said standard specification may be cited as Irish Standard/EN 100015-2:1994 or as I.S./EN 100015-2:1994.

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 100 015 - 2

December 1993

UDC

Descriptors Quality, electronic components, electrostatic sensitive devices

English Version

Basic Specification:
Protection of Electrostatic Sensitive Devices
Part 2: Requirements for Low Humidity Conditions

Spécification de base:
Protection des produits sensibles
aux décharges électrostatiques
Partie 2: Exigences relatives aux
conditions de basse humidité

Grundspezifikation:
Schutz von elektrostatisch
gefährdeten Bauelementen
Teil 2: Anforderungen für
Bereiche mit niedriger
Luftfeuchtigkeit

This European Standard was approved by the CENELEC Electronic Components Committee (CECC) on 29 July 1993. CENELEC members are bound to comply with CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the General Secretariat of the CECC or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CECC General Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and United Kingdom. The membership of the CECC is identical, with the exception of the national electrotechnical committees of Greece, Iceland and Luxembourg.

CECC

CENELEC Electronic Components Committee
Comité des Composants Electroniques du CENELEC
CENELEC- Komitee für Bauelemente der Elektronik
General Secretariat: Gartenstr. 179, D- 60596 Frankfurt/Main

FOREWORD

The CENELEC Electronic Components Committee (CECC) is composed of those member countries of the European Committee for Electrotechnical Standardization (CENELEC) who wish to take part in a harmonized System for electronic components of assessed quality.

The object of the System is to facilitate international trade by the harmonization of the specifications and quality assessment procedures for electronic components, and by the grant of an internationally recognized Mark, or Certificate, of Conformity. The components produced under the System are thereby acceptable in all member countries without further testing.

This European Standard was prepared by CECC WG ESD.

The text of the draft based on document CECC(Secretariat)3271 was submitted to the formal vote; together with the voting report, circulated as document CECC(Secretariat)3372 it was approved by CECC as EN 100 015 - 2 on 29 July 1993.

The following dates were fixed:

- | | | |
|--|-------|------------|
| - latest date of announcement of the EN at national level | (doa) | 1993-09-16 |
| - latest date of publication of an identical national standard | (dop) | 1994-03-16 |
| - latest date of withdrawal of conflicting national standards | (dow) | 1995-03-16 |

Section one. General

1. General

1.1 Scope

This standard gives the additional requirements to standard EN 100015: Part 1 for the protection of electrostatic discharge sensitive devices from electrostatic discharges in areas where a relative humidity of less than 20 % may be encountered.

CAUTION: Although this standard does not include requirements for personal safety, attention is drawn to the need for all concerned to comply with the relevant local statutory requirements regarding the health and safety of all persons in all places of work including those covered by this standard. (Attention is drawn to the fact that electrical potentials in excess of 50 V a.c. or 120 V d.c. may be dangerous to personnel).

1.2 Definitions

All definitions in clause 1.2 of Part 1 apply.

Section two. Design considerations to reduce the effects of ESD

All clauses in Section two of Part 1 apply.

Section three. Labels, signs and marking

All clauses in Section three in Part 1 apply.

Section four. ESD protected area (EPA)

All clauses in Section four of Part 1 apply with the following exceptions.

4.3.1 General

Modification

Materials used within an EPA shall have the characteristics described in clauses 4.3.2 to 4.3.8 of EN 100015: Part 1 which shall be measured at the lowest and highest expected relative humidity values. For qualification tests, materials shall be conditioned for 72 h before testing.

Page 4
EN 100015-2 : 1993

NOTE 1: Suitable measuring methods for material parameters are given in EN 100015: Part 1, annex A.

NOTE 2: Some protective materials have electrical properties which are very significantly affected by low humidity and may not be suitable for use in this environment.

4.4 Ionization

Addition

NOTE: Ionization may be especially important in low humidity areas owing to the reduced charge decay characteristics of materials.

4.5 Humidity

4.5.1

Modification

In areas where there is a risk of a relative humidity below 20% being encountered, the requirements in 4.5.201 shall be followed.

NOTE: Low relative humidity severely reduces the dissipation effectiveness of materials used in certain types of work surfaces, packaging, flooring and clothing.

4.5.201

Addition

The minimum and maximum expected relative humidity levels shall be clearly stated. All materials used shall be within the specified ohmic values (resistance to ground, surface resistivity and volume resistivity) and charge decay characteristics of tables 1 and 2 throughout the stated range of relative humidity values. Where no minimum value is specified or marked on the materials, adherence to EN 100015: Part 1 only shall be assumed.

Section five. Protective packaging, marking and identification of ESDS

All clauses in Section five of Part 1 apply.

Section six. Purchase, receipt, storage and handling

All clauses in Section six of Part 1 apply with the following exceptions.

6.2 Purchase

Modification

All procurement orders for components and items related to electrostatic special handling activities shall quote the requirements of this Part of EN 100015. Both packaging materials and packaging actions shall be covered by these requirements. All procurement personnel shall receive appropriate training, see 7.2 of EN 100015/1.

6.3.1

Modification

All receipt EPA should meet the requirements in Section four of this Part of EN 100015.

Section seven. Training

All clauses in Section seven of Part 1 apply.

Section eight. Quality responsibilities

All clauses in Section eight of Part 1 apply together with the following additions.

8.8.201 Wrist band and ground cord

A check in accordance with EN 100015: Part 1 clause 8.9.2 shall be performed prior to each work session.

8.8.202 Leg straps, toe and heel straps and electrostatic dissipative footwear

A check in accordance with EN 100015: Part 1 clause 8.9.3 shall be performed prior to each work session.

Section nine. Periodic audit instructions

All clauses in Section nine of Part 1 apply.

This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

-
- Looking for additional Standards? Visit Intertek Inform Infostore
 - Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation
-