
**Inženiring opreme (EE) - Pogoji okolja in preskusi vplivov okolja za
telekomunikacijsko opremo - Del 2-0: Specifikacija preskusov vplivov okolja -
Uvod**

Equipment Engineering (EE); Environmental conditions and environmental tests for
telecommunications equipment; Part 2-0: Specification of environmental tests;
Introduction

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ICS:

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33.050.01	Telekomunikacijska terminalska oprema na splošno	Telecommunication terminal equipment in general

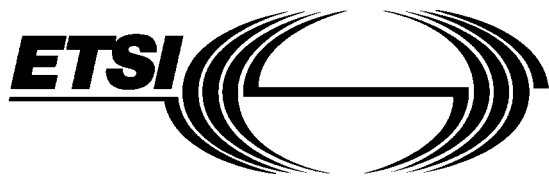
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**Equipment Engineering (EE);
Environmental conditions and environmental tests for
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Introduction**

ETSI

European Telecommunications Standards Institute

ETSI Secretariat

Postal address: F-06921 Sophia Antipolis CEDEX - FRANCE

Office address: 650 Route des Lucioles - Sophia Antipolis - Valbonne - FRANCE

X.400: c=fr, a=atlas, p=etsi, s=secretariat - **Internet:** secretariat@etsi.fr

Tel.: +33 92 94 42 00 - Fax: +33 93 65 47 16

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Foreword

This multi-part European Telecommunication Standard (ETS) has been produced by the Equipment Engineering (EE) Technical Committee of the European Telecommunications Standards Institute (ETSI).

ETS 300 019 is concerned with environmental conditions and environmental tests for telecommunications equipment and comprises two main parts, each with subdivisions:

- ETS 300 019-1: "Classification of environmental conditions".

Part 1 specifies different standardised environmental classes covering climatic and biological conditions, chemically and mechanically active substances and mechanical conditions during storage, transportation and in-use.

- ETS 300 019-2: "Specification of environmental tests".

Part 2 specifies the recommended test severities and test methods for the different environmental classes.

Part 1-0 forms a general overview of Part 1. This part (Part 2-0), forms a general overview of Part 2.

An associated ETSI Technical Report (ETR), ETR 035 [1], gives an introduction to the main concepts of environmental engineering, the purpose and use of environmental classes and the corresponding test philosophy.

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1 Scope

This European Telecommunication Standard (ETS) specifies the test severities and methods for verification of the required resistibility for equipment which is to be stored, transported and used in the environments stated in Part 1 of this ETS.

The purpose of sub-part 2-0 is to form a general overview of Part 2.

2 Normative references

This ETS contains, by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this ETS only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

- [1] ETR 035: "Equipment Engineering (EE); Environmental engineering Guidance and terminology".
- [2] ETS 300 019-1-1 to 1-7: "Equipment Engineering (EE); Environmental conditions and environmental tests for telecommunications equipment; Classification of environmental conditions".
- [3] ETS 300 019-2-1 to 2-7: "Equipment Engineering (EE); Environmental conditions and environmental tests for telecommunications equipment; Classification of environmental conditions".
- [4] IEC 721-2-4: "Solar radiation and temperature"
- [5] IEC 68-1: "General and guidance"
- [6] IEC 68-2: "Basic environmental testing procedures; Part 2: Tests".

3 General

The purpose of environmental testing is to demonstrate that an equipment under defined environmental conditions can survive without irreversible failures and perform according to requirements.

These tests are not reliability tests or lifetime tests.

The severities of testing in ETS 300 019-2-1 to 2-7 [3] are closely correlated with the characteristic severities of the environmental classes in ETS 300 019-1-1 to 1-7 [2]. The transformation has been made taking into account failure consequences, performance requirements and the graded test severities in IEC 68-2 [6] test methods. In ETS 300 019-2-1 to 2-7 [3], "moderate failure consequences" and "normal performance requirements" shall be taken as standards, unless otherwise stated (see also ETR 035 [1]).

In order to satisfy the environmental resistibility requirements, ETS 300 019-2-1 to 2-7 [3] detail the severities and methods used. In many cases these conditions are different from those shown in ETS 300 019-1-1 to 1-7 [2] and for some parameters no testing is recommended. Where conditions have been changed, this is done in order to:

- produce the effect of the environment rather than attempt to reproduce the actual physical environmental conditions; and/or
- enable standard testing to IEC 68-2 [6]; and/or
- recognise that the given characteristic severity relates to a condition with a very low probability of occurrence.

Where no test is specified:

- other specified tests are considered to be more severe and cover that parameter; and/or