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Equipment Engineering (EE); Environmental conditions and environmental tests for telecommunications equipment; Part 2-6: Specification of environmental tests; Ship environments

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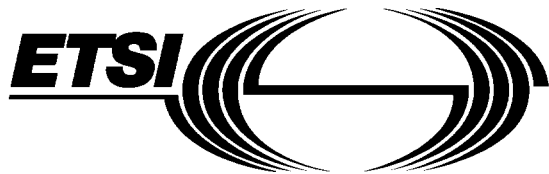
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Foreword

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 2-0 forms a general overview of Part 2. This part, (Part 2-6), deals with ship environments.

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1 Scope

This European Telecommunication Standard (ETS) specifies test severities and methods for the verification of the required resistibility of equipment according to the relevant environmental class.

The tests defined in Part 2-6 of this multi-part standard apply to the use of equipment installed permanently or temporarily in ships and cover the environments and the vessels stated in ETS 300 019-1-6 [1].

2 Normative references

This ETS incorporates 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] ETS 300 019-1-6: "Equipment Engineering (EE); Environmental conditions and environmental tests for telecommunications equipment Part 1-6: Classification of environmental conditions; Ship environments".
- [2] IEC 68-2: "Basic environmental testing procedures. Part 2: Tests".
- [3] ETS 300 019-2-0: "Equipment Engineering (EE); Environmental conditions and environmental tests for telecommunications equipment Part 2-0: Specification of environmental tests; Introduction".

3 Environmental test specifications

The detailed descriptions of the environmental conditions are given in Clauses 4 and 5 of ETS 300 019-1-6 [1].

ETS 300 019-2-0 [3] forms a general overview of Part 2 of this ETS.

The equipment under test is assumed to be in its operational state throughout the test conditions described in this Part unless otherwise stated. The required performance before, during and after the test needs to be specified in the product specification. Input and load conditions of the equipment shall be chosen to obtain full utilisation of the equipment under test. The heat dissipation shall be maximised, except for the steady state, low temperature test, where it shall be minimised.

3.1 Specification T 6.1: Totally weatherprotected locations

This specification applies to a totally weatherprotected use in ships excluding Warm Damp and Warm Damp Equable climates, see tables 1 and 4.

Table 1: Test specification T 6.1: Totally weatherprotected locations - climatic tests

Environmental parameter			Environmental Class 6.1	Environmental test specification T 6.1: Ship, totally weatherprotected locations			
Type	Parameter	Detail parameter	Characteristic severity	Test severity	Duration	Reference	Method
Air temperature	low	(°C)	+5	+5 (4)	16 h	IEC 68-2-1	Ab/Ad: Cold (3)
	high	(°C)	+40	+40	16 h	IEC 68-2-2	Bb/Bd: Dry heat
	change	air/water (°C)	no				
	surface	high (°C)	no				
Humidity	relative	low (%)	10	(5)			
		high; slow temperature change (%)	95	93	4 days	IEC 68-2-56	Cb: Damp heat steady state
		high; rapid temperature change (%)	+30	+30			
	absolute	high; rapid temperature change (g/m³)	no				
Air	speed	(m/s)	no				
Water	temperature	high (°C)	30	none			
		low (°C)	no				
	rain	intensity (mm/min)	no				
		volume pressure (m³/min) (kPa)					
	other sources	velocity (m/s)	no				
	wetness		no				
Radiation	solar	(W/m²)	no				
	heat	(W/m²)	no				

(continued)

Table 1 (concluded): Test specification T 6.1: Totally weatherprotected locations - climatic tests

Environmental parameter			Environmental Class 6.1	Environmental test specification T 6.1: Ship, totally weatherprotected locations			
Type	Parameter-	Detail parameter-	Characteristic severity	Test severity	Duration	Reference	Method
Chemically active substances	sulphur	SO ₂ (mg/m ³)	0,1 (1)	none (2)			
		H ₂ S (mg/m ³)	0,01 (1)	none (2)			
	chlorine	sea salts	negligible				
		HCl (mg/m ³)	0,1 (1)	none (2)			
	nitrogen	NO _x (mg/m ³)	0,1 (1)	none (2)			
		NH ₃ (mg/m ³)	0,3 (1)	none (2)			
	hydrogen fluoride HF	(mg/m ³)	0,003 (1)	none (2)			
	ozone O ₃	(mg/m ³)	0,01 (1)	none (2)			
Mechanically active substances	dust	sedimentation	negligible				
	sand in air		no				
	soot deposit		no				
Flora and Fauna	micro organisms		negligible				
	rodents, insects		negligible				
no = this condition does not occur in this class. none = verification is required only in special cases.							
(n) = NOTE (n = number of note), see subclause 3.4.							

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