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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 4798.5-2007

Replacing GB/T 4798.5-1987

**Environmental conditions existing in the application of electric
and electronic products -- Section 5: Ground vehicle
installations**

电工电子产品应用环境条件 第5部分：地面车辆使用

(English Translation)

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Foreword

GB/T 4798 "Environmental conditions for electric and electronic applications" include.

GB/T 4798.1-2005 application of electric and electronic products environmental conditions - Part 1. Storage GB/T 4798.2-1996 Environmental conditions for electric and electronic goods and transportation applications GB/T 4798.3-2007 application of electric and electronic products environmental conditions - Part 3. Stationary use at weather protected locations GB/T 4798.4-2007 application of electric and electronic products environmental conditions - Part 4. No fixed workplace climate protection use GB/T 4798.5-2007 application of electric and electronic products environmental conditions - Part 5. Ground vehicle GB/T 4798.6-1996 Environmental conditions for electric and electronic products for marine applications GB/T 4798.7-2007 application of electric and electronic products environmental conditions - Part 7. Portable and non-stationary use GB/T 4798.9-1997 application of electric and electronic products environmental conditions inside the product microclimate GB/T 4798.10-1991 Environmental conditions for electric and electronic applications Introduction this section GB/T 4798.5-2007, modify using the IEC 60721-3-5:1997 "Classification of environmental conditions - Part 3. environmental parameters Array classification and their severities - Section 5. Ground vehicle "(in English).

This section according to IEC 60721-3-5:1997 redrafted, this section lists the reg number and IEC 60721-3-5 in Appendix D.

1997 reg number comparison table.

Taking into account China's national conditions, in using IEC 60721-3-5:1997 when this part has made several modifications. About the technical differences and edit Differences have been incorporated into the text and the space to which they are involved in terms of margin by a vertical line identification. These are given in Appendix E List of technical and editorial differences and the reasons for reference.

This part of IEC 60721-3-5:1997 The main differences are as follows.

- Remove the IEC 60721-3-5 foreword;
- Increase the national standard foreword;
- Deletion of Chapter 3 is defined;
- Increase 5K3L and 5M4 grade;
- Increase in Appendix C, Appendix D and Appendix E.

This part is GB/T 4798.5-1987 revision compared with the old standard, the main differences are as follows.

- Deletion of Chapter 2 Terminology;
- The 5K3C level to 5K3L level;
- Increase Table 1A special climatic conditions;
- Table 1 increase 5K5 and 5K6 grade;
- Typical shock response spectrum I, type II on the frequency spectrum of the lower average extension;
- Appendix A modified by Supplement is an informative annex, a method by deleting C Appendix B version of the standard;
- Increase in Appendix B, Appendix D and Appendix E, Appendix C to replace the original Appendix B.

GB/T 4798 series is one of the standard conditions of electric and electronic products environment. These are listed below national standards expected structure and Corresponding to the international standards and national standards replaced.

- a) GB/T 4796-2001 electric and electronic products environmental parameters and their severities (IEC 60721-1:1990, on behalf of the for GB/T 4796-1984)
- b) GB/T 4797.1-2005 electric and electronic products natural environmental conditions of temperature and humidity (IEC 60721-2-1:2002, instead of GB/T 4797.1-1984)
- c) GB/T 4797.2-2005 electric and electronic products natural environmental conditions

Altitude and air pressure, water depth and water pressure (IEC 60721-2-3. 1987, instead of the GB/T 4797.2-1986)

d) GB/T 4797.3-1986 electric and electronic products biological natural environmental conditions (IEC 60721-2-7)

e) GB/T 4797.4-1989 Environmental conditions for electric and electronic products natural solar radiation and temperature (IEC 60721-2-4:2002)

f) GB/T 4797.5-1992 Environmental conditions for electric and electronic goods and natural precipitation and wind (IEC 60721-2-2. 1988)

g) GB/T 4797.6-1995 electric and electronic products natural conditions of dust, sand, salt mist (IEC 60721-2-5:1991)

h) GB/T 4798.1-2005 application of electric and electronic products environmental conditions - Part 1. Storage (IEC 60721-3-1:1997, on behalf of the for GB/T 4798.1-1986)

i) GB/T 4798.2-1996 application of electric and electronic products environmental conditions Transport (IEC 60721-3-2. 1985, amendment or 1.1991, amendment or 2.1993)

j) GB/T 4798.3-2007 application of electric and electronic products environmental conditions - Part 3. Stationary use at weather protected locations (IEC 60721-3-3:2002, instead of the GB/T 4798.3-1990)

k) GB/T 4798.4-2007 application of electric and electronic products environmental conditions - Part 4. No fixed workplace climate protection use (IEC 60721-3-4:1995, instead of the GB/T 4798.4-1990)

l) GB/T 4798.5-2007 application of electric and electronic products environmental conditions - Part 5. Ground vehicle use (IEC 60721-3-5:1997, instead of the GB/T 4798.5-1987)

m) GB/T 4798.6-1996 Environmental conditions for electric and electronic products for marine applications (IEC 60721-3-6. 1987, amendment or 1)

n) GB/T 4798.7-2007 application of electric and electronic products environmental conditions - Part 7 Portable and non - stationary use (IEC 60721-3-7:2002, instead of the GB/T 4798.7-1987)

o) GB/T 4798.9-1997 application of electric and electronic products environmental conditions inside the product microclimate (IEC 60721-3-9. 1993)

p) GB/T 4798.10-2006 Environmental conditions for electric and electronic applications Introduction (IEC 60721-3-0:2002, amendment or 1)

q) GB/T 11804-2005 Application of electric and electronic products Terms of environmental

conditions (instead of GB/T 11804-1989) this section of the Appendix A, Appendix B, Appendix C, Appendix D and Appendix E is an informative annex.

This part is proposed by the China Electrical Equipment Industrial Association.

This part of the National Electrical and Electronic Products Environmental conditions and environmental tests for Standardization Technical Committee (SAC/TC8) centralized.

This section drafted by the Ministry of Railways Institute of Measurement Standards, National Track Scale Metering Station.

1 Scope

This section mounted on ground vehicles but does not constitute a part of the environmental conditions of the vehicle product classification. Such products include. Communications Department EC, the meter, the vehicle transporting liquids such as milk, petroleum products flow meter.

Product permanent or temporary installation of a vehicle comprising.

- Road vehicles. wagon, commercial vehicles, special vehicles, tractors, trailers, motor vehicles and motorcycles;
- Rail vehicles. locomotives, trams, cranes and other;
- Off-road vehicles. four-wheel drive vehicles, tractors, snow removal vehicles;
- Handling and storage of vehicles. trucks (manual and automatic), luggage trucks;
- Self-propelled machinery. excavators, harvesters.

Although this section does not apply to products constitute part of the vehicle, Classification of environmental conditions also apply to interchangeable products, these products are the same Installed in the same parts of the vehicle, but do not constitute a part of the vehicle. This section includes only the product harmful harsh conditions.

Storage and transport conditions are given in GB/T 4798.1-2005 and GB/T 4798.2-1996 in.

The purpose of this section is on the environmental conditions classification of severities. Products installed in ground vehicles when in use is exposed to the Said ambient conditions.

This section gives a limited number of environmental condition classes, but includes a wide range of applications. Should be selected according to the environment of the product Optional minimum level of coverage. Appendix A gives a guide.