

ICS 17.220

CCS L86



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

GB/T 11469-2013

Replacing GB/T 11469-1989

General specification for radio altimeters

无线电高度表通用规范

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Foreword

This standard was drafted in accordance with GB/T 1.1-2009 given rules. This standard replaces GB/T 11469-1989 "radio altimeter general technical conditions." This standard compared with GB/T 11469-1989 The main changes are as follows:

--- In the altimeter range "1" and will be applicable to all types of aircraft from the standard used by other aircraft also used altimeter Shall apply mutatis mutandis amended to apply to all types of aircraft and other aircraft altimeters used;

2 Normative references" in addition to HB5870, the other documents referenced amended to date references, and references to the most new version;

3 Terms and Definitions" chapter;

--- Added "altimeter 4 basic components" chapter;

5.1 General requirements", increasing the dimensions and weight; delete the operating frequency 1.5GHz ~ 1.7GHz, retention 4.2GHz ~ 4.4GHz; warm-up time of less than 1min; output interface and can choose to add an interface form; power supply repair GJB181A-2003 to meet the requirements; increasing the height of the remaining requirements;

5.2 Performance Requirements", revised measurement precision and accuracy of the indicator according to different heights and different levels of precision; output noise Sound is determined by the height of the revised classification accuracy; according to the altimeter use, the response time was revised to display and control Two kinds;

--- In the "environmental adaptability 5.3", the temperature requirements changed to high and low temperature storage and high and low temperatures, the corresponding temperature requirements table Also made changes; modified by the vibration sine sweep vibration wideband random vibration; increase the low air pressure and acceleration requirements; removal of noise and vibration, Explosive atmosphere requirements;

--- In the "Requirements 5", the removal of the magnetic impact requirements, increase testability and supportability requirements;

- In the "General Test 6.2", the increase in the general test methods and corresponding general requirements;
- In the "Performance Test 6.3", the increase in high-precision measurement of the outer loop attenuation amount measured test points given by the product standards; pointer precision Test, select the preferred test point was changed to "select test points should guarantee the completeness and accuracy";
- Changes in power test, modified to test the upper limit voltage and lower limit voltage test;
- Revised GJB151A-1997, GJB152A-1997 requirements for electromagnetic compatibility and electromagnetic compatibility tests;
- Appendix A temperature - conditions of use highly classified tests in height, according to China International System of Units has been modified. Please note that some of the content of this document may involve patents. Release mechanism of the present document does not assume responsibility for the identification of these patents. The standard proposed by the Ministry of Industry and Information Technology of the People's Republic of China. This standard by the National Standardization Technical Committee Electronic Measuring Instruments (SAC/TC153) centralized. This standard was drafted. China Electronics Technology Group Corporation fiftieth Institute, eight state-run seventh Plant, Beijing Qingyun Aviation Instrument Co., the company. The main drafters of this standard. Pipe Hong, Wang Sheng Min, Zhaosan Ping, Wanghai Yong, Meng Po accounting, Song Jinfeng, Ji Hua, Shi Yu, Liu Guiping. This standard replaces the standard for the previous editions.

1 Scope

GB/T 11469-2013 is the Chinese national standard on general specification for radio altimeters, in the field of metrology and measurement. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 31 December 2013 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 15 July 2014. Classification: ICS 17.220, CCS L86. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This standard specifies the radio altimeter (hereinafter referred to as "altimeter") composition, requirements, test methods, inspection rules and signs, packaging, Transport, storage and so on. This standard applies to all types of aircraft and other aircraft altimeter

uses.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 191-2008 Packaging - Pictorial signs

GB/T 2423.4-2008 Environmental testing for electric and electronic products Part 2. Test methods - Test Db. Damp heat (12h 12h cycle)

GB/T 2423.16-2008 Environmental testing for electric and electronic products Part 2. Test methods Test J and guidance. Mould growth

GB/T 2423.17-2008 Environmental testing for electric and electronic products Part 2. Test methods - Test Ka. Salt

GB/T 2423.22-2012 Environmental testing - Part 2. Test methods - Test N. Temperature change
GJB150.2-1986 Environmental test methods for military equipments Low pressure (altitude) test
GJB150.15-1986 Environmental test methods for military equipments acceleration test
GJB150.16-1986 Environmental test methods for military equipments Vibration test
GJB151A-1997 military equipment and subsystems electromagnetic emission and susceptibility requirements
GJB152A-1997 military equipment and subsystems electromagnetic emission and susceptibility measurements
GJB181A-2003-powered aircraft characteristics
HB5870 Air Transport Auxiliary products packaging General technical conditions

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1 Measurement Accuracy altitudeaccuracy Altimeter height output value compared with the measured height values of the maximum permissible error.

3.2 Sensitivity sensitivity In ensuring altimeter altimetry range and high precision measurement conditions, altimeter transmitter cable between the receiving port to the cable port for a total of The amount of attenuation.

3.3 Indicator accuracy indicatoraccuracy Height indicator indicates the relative height of the altimeter output error.