

ICS 39.040.20

CCS Y11



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

GB/T 17929-2007

Replacing GB/T 17929-1999

Quartz clocks vehicles

汽车用石英钟

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Foreword

This standard replaces GB/T 17929-1999 "Vehicle quartz clock." This standard and GB/T 17929-1999 main technical differences are as follows:

- Cancel the "Definitions" chapter;
- Increasing the strength of the connection terminals, key reliability, fatigue resistance and drop buttons (4.8,4.9,4.10,4.13);
- Increased aging resistance, durability canceled (4.12);
- Increased resistance to temperature cycling, thermal shock resistance, and temperature and humidity cycling (4.15);
- Increasing the resistance of the power supply voltage variation (4.21);
- Increased electromagnetic compatibility (4.22);
- Cancel the magnetic properties;
- Modify the instantaneous difference between the test method (5.2.4). Appendix A of this standard is a normative appendix. The standard proposed by China National Light Industry Council. This standard by the National Standardization Technical Committee clocks (SAC/TC160) centralized. This standard was drafted. Wuhan Cheng Sheng Electronics Co., Ltd. Guangzhou Fuda Watch Industry, the Institute of Light Industry watch. The main drafters of this standard. Min Ye, Yang Jianmin, Chen, Jiang Tianxiang, Yuanling Xu, Guo Xu. This standard replaces the standards previously issued as follows:
 - GB 6047-1985;
 - QB/T 3718-1999;
 - GB/T 17929-1999. Automotive Quartz

1 Scope

GB/T 17929-2007 is the Chinese national standard on quartz clocks vehicles, in the field of precision mechanics and jewellery. 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 5 December 2007 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 1 September 2008. Classification: ICS 39.040.20, CCS Y11. 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 automotive quartz (referred to as the automobile clock) classification, requirements, test methods, inspection rules, marking, packaging, transport and Storage. This standard applies to all types of automotive quartz clock, clock-vehicle information display and on-board part of the composite display, automobile clock movement Referring also to use.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 2828.1 Sampling procedures for inspection - Part 1. by acceptance quality limit (AQL) retrieval batch inspection sampling plan (GB/T 2828.1-2003, ISO 2859-1.1999, IDT)

GB/T 2829 periodic inspection Sampling procedures and tables (suitable for process stability test)

GB/T 17619-1998 vehicles to electromagnetic radiation immunity limits and methods of measurement of electrical and electronic components Category 3

3.1 according to the movement structure is divided into. Z class

--- Analog. S Class

3.2 divided by Operating Voltage. A type

--- nominal operating voltage of DC12V. Type B

--- nominal operating voltage of DC24V.

4 Requirements

4.1 Operating Temperature Automobile clock in a temperature range of -30 °C ~ 80 °C should be kept away.

4.2 voltage range

4.2.1 A bell cars in DC9V ~ DC16V operating voltage range should be kept away.

4.2.2 B-type automobile clock in DC18V ~ DC30V operating voltage range should be kept away.

4.3 Reliability walk Automobile clock should stop and go in everyday working conditions, in the course of the pre-carry away the accumulated error should not exceed 1min.

4.4 Instantaneous difference day The average rate in the day with poor test equipment measured a short period of time to go to the instantaneous difference in seconds/day (s/d) representation. Automobile clock transient Day difference should be within -1.5s/d ~ 1.5s/d range.

4.5 Operating Current Automobile clock operating current shall comply with the provisions in Table 1.