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

GB/T 47028-2026

**Technical specification for lightning electromagnetic field
sensors**

雷电电磁场传感器技术规范

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part

1.Structure and Drafting Rules of Standardization Documents". Drafting. Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents. This document was proposed and is under the jurisdiction of the National Technical Committee on Lightning Protection Standardization (SAC/TC258). This document was drafted by: Army Engineering University of the Chinese People's Liberation Army, China Electric Power Research Institute Co., Ltd., and Beijing University of Science and Technology. Sichuan Zhongguang Lightning Protection Technology Co., Ltd., State Grid Electric Power Research Institute Wuhan NARI Co., Ltd., Beijing Lanhu Space Technology Development Co., Ltd. Center, Hefei Aerospace Electrophysics Technology Co., Ltd., University of Science and Technology of China, Air Force Early Warning Academy of the Chinese People's Liberation Army, China Association for Standardization Meeting, Guangdong Huaxin Intelligent Transportation Technology Co., Ltd., Shanghai University of Electric Power, Zhejiang Huadian Lightning Protection Technology Co., Ltd., and Zhongke Tianji Technology Co., Ltd. Co., Ltd., Nanchang Zhongke Feilong Sensor Technology Co., Ltd., Kunming Power Supply Bureau of Yunnan Power Grid Co., Ltd., Shanghai Chenhui Technology Co., Ltd. Joint-stock company, Guodian Power Shandong New Energy Development Co., Ltd. The main drafters of this document are. Qiu Shi, Gu Shanqiang, Zhang Jianpei, Li Yun, Wen Xiaolong, Chen Yang, Ning Jun, Yao Ximei, Xu Yuangen, Tan Hongli, and Lu Gaopeng. Zhang Qi, Li Jiandong, Luo Zhiyong, Bian Xiaoyan, Huang Bizhen, Gao Panliang, Wu Shuang, Guo Wei, Luo Yifu, Ying Yuxiang. Lightning Electromagnetic Field Sensor Technical Specification

1 Scope

GB/T 47028-2026 is the Chinese national standard covering the sensors of a lightning location network - the fast electric and magnetic field antennas whose waveforms, timed to microseconds across many stations, are what fix a stroke to within a few hundred metres. It fixes the bandwidth and sensitivity, the timing accuracy, the calibration and the environmental requirements of an instrument that stands outdoors in exactly the weather it measures. First edition, 19,000 words. It was issued on 28 January 2026 and has been in force since 1 August 2026, as a first edition. The document is under the responsibility of the Standardization Administration of China. This page is published from the official record of the 2026 edition; the clause text of a standard this recent is not yet in circulation, and the figures, limits and tables it contains are those of the document itself, delivered in full with the English translation.

This document specifies the classification, requirements, inspection rules, packaging, transportation, and storage of lightning electromagnetic field sensors, and describes the corresponding tests. method. This document applies to the development, production, and testing of lightning electromagnetic field sensors.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included. For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies. This document.

GB/T 2423.10-2019 Environmental testing - Part

3 Terms and Definitions

The terms and definitions defined in GB/T 7665 and the following terms and definitions apply to this document.

3.1 sensor A device or apparatus that can sense the measured quantity and convert it into a usable output signal according to a certain rule. Note