

ICS 29.020
CCS K 60



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

GB/T 17949.1-2000

**Guide for measuring earth resistivity, ground impedance, and
earth surface potentials of a ground system. Part 1: Normal
measurements**

接地系统的土壤电阻率、接地阻抗和地面电位测量导则 第1部分：常规测量
(English Translation)

Issued on: January 3, 2000

Implemented on: August 1, 2000

Issued by: State Quality and Technical Supervision

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What this standard covers

This standard specifies test methods include: (1) measurement from small ground rod, ground plate to the plant grounding system, and other large-scale ground pole ground resistance and ground impedance, (2) measuring the ground potential, including measuring step voltage, the contact voltage and equipotential lines, (3) to improve the engineering design, proportional model test method, the test chamber predicted ground resistance and ground potential gradient, (4) measurement of soil resistivity. Listed in this standard test method is limited to the use of direct current, DC current cyclical commutation, sinusoidal AC currents and inrush current (used to measure the impact of grounding impedance). The guidelines do not include all possible means of testing and test methods. Because of the many variables in the test, the test is difficult to achieve highly accurate and therefore the most appropriate use of existing test methods carefully do the test, but also a thorough understanding of the cause of the error.

Document data

International classification (ICS): 29.020.

Chinese classification (CCS): K60.

Estimated length of the Chinese original: 36,371 words.

Adopted international standard: ANSI/IEEE 81-1993, IDT.