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NATIONAL METROLOGY VERIFICATION REGULATION OF THE PEOPLE'S REPUBLIC OF CHINA

JJG 1079-2013

Verification Regulation of Comprehensive Calibrators for Test Equipment of Railway Track Signal

铁路轨道信号测试设备综合校验装置

(English Translation)

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Introduction

JJF1002 "national verification procedures write rules", JJF1001 "common measurement terms and definitions" JJF1059 "Evaluation and Expression of Uncertainty in Measurement" together constitute the support of the protocol development of the basic series specification.

The regulations are based on the actual use of the technical requirements.

This procedure was first formulated.

Comprehensive calibration device verification procedures railroad track signal test equipment

1 Scope

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The order applies to the first railway track signal integrated test equipment calibration device (hereinafter referred to as integrated calibration device) Second test, verification and subsequent use of checks.

2 Overview

Comprehensive calibration device is mainly used in railway track signal line test equipment test and calibration. Its main functions are.

Single-frequency output signal frequency, voltage and current; frequency shift signal (including the center frequency of 550Hz, 650Hz, 750Hz, 850Hz frequency shift of the signal, ZPW-2000, UM71, WG-21A, etc.) frequency, voltage, Stream; 25Hz, 50Hz voltage phase sensitive track signal phase; voltage ac counting track signals, time intervals, etc.

Standard signal, standard compensation capacitor and impedance.

3 metering performance requirements 3.1 single-frequency output

3.1.1 Frequency

Output ranges from 5Hz ~ 3kHz, the maximum permissible error shall not exceed ± 0.03Hz.

3.1.2 Voltage

(5 ~ 25) Hz frequency band output range (0.1 ~ 10) V, 25Hz ~ 3kHz band output range (0.1 ~ 400) V, the maximum permissible error shall not exceed ± 0.5%.

3.1.3 Current

5Hz ~ 3kHz band output range (50 ~ 500) mA, the maximum permissible error shall not exceed ± 0.5%, by induction coil output current range of 50mA ~ 20A.

3.2 Frequency Shift Output 3.2.1 frequency shift (center frequency of 550Hz, 650Hz, 750Hz, 850Hz frequency shift signal) 3.2.1.1 upper and lower frequencies. output range (460 ~ 940) Hz, the maximum permissible error shall not exceed ± 0.03Hz.

3.2.1.2 The low frequency range. low frequency modulation frequency output range (6 ~ 30) Hz, shall not exceed the maximum permissible error ± 0.003Hz.

3.2.1.3 Voltage. shift in frequencies, the output range (0.1 ~ 400) V, shall not exceed the maximum permissible error ± 0.5%.

3.2.1.4 Current. shift frequencies, the output range (50 ~ 500) mA, shall not exceed the maximum permissible error ± 0.5%, by the induction coil output current range of 50mA ~ 20A.

3.2.2 ZPW-2000, UM71, WG-21A 3.2.2.1 upper and lower frequencies. output range (1.6 ~ 2.7) kHz, shall not exceed the maximum permissible error ± 0.03Hz.

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