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NATIONAL METROLOGY TECHNICAL SPECIFICATION OF THE

PEOPLE'S REPUBLIC OF CHINA

JJF 1900-2021

Calibration Specification for Verification Instruments of Parking Timers

停车场电子计时装置检定仪校准规范

(English Translation)

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Introduction

This specification is based on JJF 1071-2010 "Rules for the Compilation of National Metrology and Calibration Specifications", JJF 1001-2011 "Tong Compiled with Metrological Terms and Definitions and JJF 1059.1-2012 "Evaluation and Expression of Measurement Uncertainty".

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This specification is released for the first time.

Calibration specification for parking lot electronic timing device verifier

1 Scope

This specification applies to the calibration of the parking lot electronic timing device verifier.

2 Reference documents the following documents are cited in this specification.

JJF 1180 Time-frequency measurement terms and definitions for dated reference documents, only the dated version applies to this specification; for all undated references the latest version (including all amendments) is applicable to this specification.

3 overview

The parking lot electronic timing device verifier (hereinafter referred to as the "verifier") is used to calibrate the electronic parking meter toll Meters and metering devices for parking lot electronic timing toll devices.

The verifier provides Micro Motion by receiving Global Navigation Satellite System (GNSS) satellite signals and decoding time information Accurate current time, and synchronize the local clock. When the GNSS satellite signal is not locked, the verifier will the previous time is provided by the local clock. The control unit of the verifier sends or receives a certain time interval through the sensor unit Start-stop signal, the time interval is measured by the timing unit to realize the verification of the timing error of the electronic timing device of the parking lot.

At the same time, the control unit outputs the time interval at the "timing signal output terminal".

The sensor units mainly include. manual start-stop keyboard, radio frequency controller, geo-sensing parking simulator and geomagnetic vehicle simulation

Figure 1 Block diagram of the verification instrument

1PPS-second pulse signal output terminal; T-timing signal output terminal; f-internal crystal oscillator frequency signal output terminal

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