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

JJG 1162-2019

Clinical Electronic Thermometers

医用电子体温计

(English Translation)

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(twenty one)

Introduction

This regulation is based on GB/T 21416-2008 "Medical Electronic Thermometer" and OIMLR115 (1995 version) Medical electronic thermometer with maximum value display device (Clinicalelectricalthermometerswithmaximum device), the scope, terminology and appearance requirements of OIMLR115 are modified, and a standard instrument is used for verification the temperature field distribution requirements of the device and thermostat are consistent with OIMLR115, and refer to ASTME1112-00 (2018) "Standard Specification for Electronic Intermittent Measurement of Patient's Body Temperature" ThermometerforIntermittentDeterminationofPatientTemperature) and JIST1140-2014 "Electronic thermometer" and other standards were formulated.

This regulation is issued for the first time.

Verification Regulation of Medical Electronic Thermometer

1 Scope

This regulation is suitable for intermittent measurement of body temperature of different parts of the human armpit, mouth, rectum, etc., and has the maximum value the first verification, follow-up verification and in-use inspection of the contact-type medical electronic thermometer that maintains function.

2 Reference documents this regulation refers to the following documents.

JJG 130-2011 working glass liquid thermometer JJG 161-2010 Standard mercury

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thermometer for dated reference documents, only the dated version applies to this regulation; for non-date quoted documents the latest version (including all amendments) is applicable to this regulation.

3 Terminology

3.1 Medical electronic thermometer clinicalelectronicthermometer Thermometer that uses sensors and circuits for clinical measurement of human body temperature.

3.2 Integrated medical electronic thermometer compactclinicalelectronicthermometer the temperature probe and the circuit are inseparable, and the two are closely connected into a medical electronic thermometer.

3.3 Split medical electronic thermometer assembledclinicalelectronicthermometer the temperature probe and the circuit can be separated, and the two are connected by a medical electronic thermometer.

3.4 Temperature probe it consists of a temperature sensor and a temperature-sensitive jacket, etc. It is used to position the sensor at a specified position for temperature measurement.

4 Overview

Medical electronic thermometer (hereinafter referred to as electronic thermometer) is mainly composed of temperature sensor, special chip, digital display the display and other circuits and components are used to measure the temperature of the human body. According to the structure, it can be divided into one type and two types. its the working principle is. during measurement, the temperature sensor senses the measured temperature and outputs an electrical signal, and the electrical signal is input to the dedicated core After processing, the maximum value of the measured temperature during the measurement is displayed on the digital display, and the display maximum value is kept to Automatic shutdown.

The typical structure of the integrated electronic thermometer is shown in Figure 1.

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