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PEOPLE'S REPUBLIC OF CHINA**

SF/T 0056-2019

**Technical specifications of community-corrections electronic
positioning wrist band
(English Translation)**

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

Please note that certain contents of this document may involve patents. The issuing agency of this document is not responsible for identifying these patents.

This standard was proposed by the Community Corrections Administration of the Ministry of Justice.

This standard is under the jurisdiction of the Information Center of the Ministry of Justice.

Drafting organizations of this standard. Community Corrections Administration of the Ministry of Justice, Anhui Provincial Department of Justice, Anhui Provincial Institute of Industry and Information Technology.

1 Scope

This standard specifies the product code coding structure, technical requirements, test methods, inspection rules and packaging of community correction electronic positioning wristbands.

Transportation and storage.

This standard applies to the design, development, manufacturing and inspection of electronic positioning wristbands worn by community correction subjects.

2 Normative references

The following documents are indispensable for the application of this document. For dated reference documents, only the dated version applies to this document.

For undated references, the latest version (including all amendments) applies to this document.

GB/T 191 Packaging, Storage and Transportation Graphic Mark GB/T 2423.1-2008 Environmental testing of electric and electronic products Part 2: Test method Test A. Low temperature GB/T 2423.2-2008 Environmental testing of electric and electronic products Part 2: Test method Test B. High temperature GB/T 2423.3 Environmental Test Part 2: Test Method Test Cab. Constant Damp Heat Test GB/T 2423.5 Environmental Test Part 2: Test Method Test Ea and Guideline. Impact GB/T 2423.7 Environmental test Part 2: Test method Test Ec. Impact caused by rough operation (mainly used for equipment-type samples) GB/T 2423.10 Environmental Test Part 2: Test Method Test Fc. Vibration (sinusoidal) GB/T 2423.22 Environmental Test Part 2: Test Method Test N. Temperature Change GB/T 4208-2017 Enclosure protection grade (IP code) GB 4943.1 Information Technology Equipment Safety Part 1: General Requirements GB/T 7408 Data element and exchange format information exchange date and time representation GB/T 22451 General requirements for electromagnetic compatibility of wireless communication equipment GB/T 26125 Determination of six restricted substances (lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls and polybrominated diphenyl ethers) in electrical and electronic products GB/T 26572 Limit requirements for restricted substances in electronic and electrical products GB 31241 Safety requirements for lithium-ion batteries and battery packs for portable electronic products GB/T 32638-2016 Mobile communication terminal power adapter and charging/data interface technical requirements and test methods SF/T 0055-2019 Community Correction Terms SJ/T 11588-2016 BDS/GPS radio frequency and baseband integrated module performance requirements and test methods

3 Terms and definitions

The terms and definitions defined in SF/T 0055-2019 and the following are applicable to this document. For ease of use, SF/T is listed repeatedly below Certain terms and definitions in 0055-2019.

Community-corrections Criminals who meet legal requirements are placed in the community, and community corrections institutions, with the assistance of relevant departments, social organizations and volunteers, Non-custodial penalty enforcement activities to correct their criminal psychology and behavioral habits within the time limit determined by the judgment, ruling or decision.

Note: Quoted from Article 3 of the "Community Corrections Implementation Measures" implemented

by the Supreme People's Court, the Supreme People's Procuratorate, the Ministry of Public Security, and the Ministry of Justice on March 1, 2012.

[SF/T 0055-2019, definition 2.1] 3.2 Community-corrections electronic positioning wrist band Electronic positioning wrist band it is worn on the wrist of the community correction subject to locate it, and has the functions of anti-disassembly, waterproofing, and sending and receiving data.

Special electronic terminal for community corrections.

Blind area

The area where the electronic positioning wristband cannot send and receive data through the mobile communication network due to external reasons.

4 Product code code structure

The product code of the electronic positioning wristband is represented by 5 segments of 21 letters and Arabic numerals. The first 1-3 are the product name code, and the fourth is the product.

Wearing position code, the 5th-7th digits are the company name code, the 8-9th digits are the product model code, the 10-21th digits are the product serial number, segment and segment Use "-" to separate between. Requirements are as follows.

- a) Product name code. It is represented by the uppercase Chinese pinyin letter "DDW";
- b) Product wearing position code. Wrist-wearable electronic positioning wristband is indicated by capital letter "S", ankle-wearing electronic positioning wristband the band is represented by a capital letter "Z";
- c) Company name code. It is represented by a combination of 3 uppercase Chinese pinyin letters or Arabic numerals;
- d) Product model code. It is represented by a combination of 2 uppercase Chinese pinyin letters or Arabic numerals;
- e) Product serial number. expressed with 12 Arabic numerals, which should include the year of production (YYYY, see GB/T 7408),

5.1 Structure

The electronic positioning wristband should adopt an integrated structure, consisting of a watch body and a watchband.

5.2 Appearance

5.2.1

The surface of the electronic positioning wristband should be smooth, free from dents, scratches, cracks, deformation, burrs and mildew, and the surface coating should be free Bubbles, cracks and shedding, and the perfusion should not overflow.

5.2.2

The metal parts should be free of rust and other mechanical damage, and the plastic parts should be free of obvious shrinkage, scratches and paint removal.

5.2.3

The strap should be flat, smooth and undistorted, and there should be no obvious pitting or scratches on the strap surface.

5.2.4

The electronic positioning wristband components should be fastened without looseness or warping, and various functions should work normally.

5.3 Material

The limit of restricted substances for electronic positioning wristbands should meet the requirements of GB/T 26572.

5.4 Communication method and protocol

5.4.1

The electronic positioning wristband should support one or more remote communication parties such as 2G/3G/4G/5G/NB-IoT (Narrowband Internet of Things)/satellite transmission formula.

5.4.2

The communication protocol should adopt TCP (Transmission Control Protocol)/UDP (User Datagram Protocol)/HTTP (Hypertext Transfer Protocol)/COAP (Restricted Application Protocol)/MQTT (Message Queuing Telemetry Transmission), etc., support the interconnection with the provincial community correction integration platform.

5.5.1 General requirements

The electronic positioning wristband should be powered by a rechargeable battery.