

Standard Guideline for Two dimensional (2D) Symbol Marking on Steel Instruments

January 15, 2014

Japan Association of Medical Devices Industries (JAMDI)

1. Purpose

The marking of two dimensional (2D) symbol on steel instruments is becoming increasingly essential to ensuring patient safety and traceability at the occurrence of an incident / discrepancy. Especially, the unique ID indicated on the body of instruments is highly useful in order for medical institutions as well as the Marketing Authorization Holders (MAHs) to recall / identify defective lots, to control the sterilization of steel instruments used for vCJD patients, and to manage rented instruments.

This guideline has been established as standard specifications for data structure and data carrier, etc. in marking a 2D symbol on the body of steel instruments provided by MAHs in order to facilitate safety control by medical institutions and to prevent problems / confusions for traceability.

We ask domestic and foreign manufacturers of steel instruments and MAHs (in Japan) for their understanding and cooperation with the implementation of the guideline.

2. Definition of steel Instruments

“Steel Instruments” covered by the guideline are instruments made of stainless steel, aluminum, copper alloy, titanium, ceramics, etc. to be reused in operations and treatments after recycling process (ex. washing, sterilization) has been performed.

The instruments used in operations and treatments which do not fall under the category of medical devices stipulated in the Pharmaceuticals and Medical Devices Law may also be handled in accordance with the guideline.

3. Principle of the Code System

The guideline adopts the code system that conforms to the data structure of GS1-128 specified in “Operation Manual for Standard Code of Medical Devices” jointly formulated and issued by the Japan Federation of Medical Devices Association (JFDA), the GS1 Japan, and the Medical Information System Development Center(MEDIS-DC) in April 2008. The two dimensional (2D) symbols should be ISO standard data carriers.

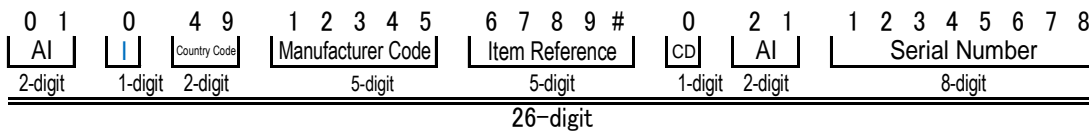
(1) Data structure

The code should consist of a GTIN(Global Trade Item Number) and a serial number, and include the following information in the following order. The GTIN should be indicated in 14 digit including one leading “0” added at the forefront of JAN(GTIN-13). The serial number should be 8 to 18–digit alphanumeric code (8-digit is recommended).

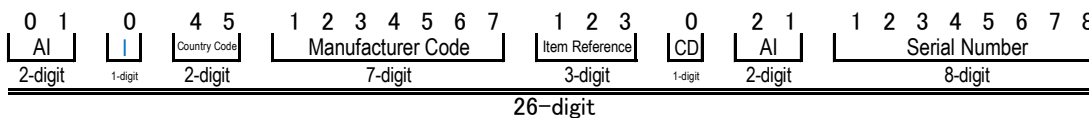
- ① Application Identifier (AI) of GTIN : 01 (2-digit, fixed)
- ② Leading zero : 0 (1-digit, fixed)
- ③ GS1 Company Prefix (country code + manufacturer code) assigned by GS1Japan*^{Note 1} : 7 or 9-digit
- ④ Item reference (product / item identification number) assigned by each company* ^{Note 1} : 5 or 3-digit
- ⑤ Check digit which is calculated from the value of ③ and ④ : 1-digit
- ⑥ Application Identifier (AI) of serial number : 21 (2-digit, fixed)
- ⑦ Serial number allocated by each company : 8-digit is recommended ^{Note 2}.

Note 1: Standard composition of the data field

A. In case of 7-digit GS1 Company Prefix (5-digit manufacturer code)



B. In case of 9-digit GS1 Company Prefix (7-digit manufacturer code)

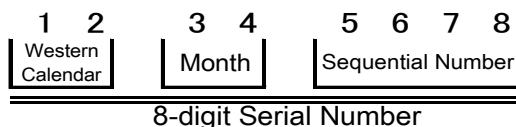


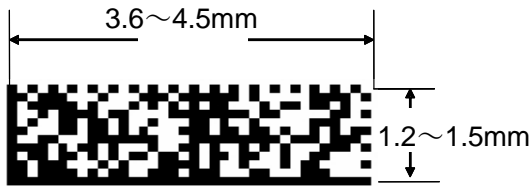
Note 2: Recommended specifications of serial number

The following 8-digit indication is recommended for serial number.

A company might control the serial number with the same specifications as before.

However considering efficacy, it is not preferable to use many digits as it may affect the readability.





(3) Registration of product codes in the database

In accordance with the guideline, in principle, the product code (JAN:GTIN-13) encoded in the two dimensional (2D) symbol is to be registered in the MEDIS-DC database for medical devices.

(4) Miscellaneous

This guideline has been established as the standard specifications for the Association whose members market steel instruments, and the marking described in the guideline is not the legal requirement by the Pharmaceuticals and Medical Devices Law. When marking two dimensional (2D) symbol on steel instruments owned by medical institutions, medical device loaners, etc., it is preferable to mark the symbol in accordance with the guideline in order to avoid confusion with the symbols on instruments newly provided by MAHs.

In addition, the guideline does not refer to marking devices, two dimensional (2D) symbol readers, and recycling process management system.