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**Intelligent Manufacturing - Radio Frequency
Identification System - Tag Data Format**

智能制造 射频识别系统

标签数据格式

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Table of Contents

Foreword.....	3
1 Scope.....	4
2 Normative References	4
3 Terms and Definitions	4
4 Abbreviations	4
5 Tag Data Format	5
Bibliography	14

Intelligent Manufacturing - Radio Frequency Identification System - Tag Data Format

1 Scope

This Standard specifies the tag data format of radio frequency identification system used for intelligent manufacturing.

This Standard is applicable to the tag design, manufacturing and application of the intelligent manufacturing-oriented radio frequency identification system.

2 Normative References

The following documents are indispensable to the application of this document. In terms of references with a specified date, only versions with a specified date are applicable to this document. In terms of references without a specified date, the latest version (including all the modifications) is applicable to this document.

GB/T 29261.3-2012 *Information Technology - Automatic Identification and Data Capture (AIDC) Techniques - Vocabulary - Part 3: Radio-frequency Identification*

GB/T 38668-2020 *Intelligent Manufacturing - Radio Frequency Identification System - General Technical Requirements*

ISO/IEC 15963 *Information Technology - Radio Frequency Identification for Item Management - Unique Identification for RF Tags*

3 Terms and Definitions

The terms and definitions defined in GB/T 29261.3-2012 and GB/T 38668-2020 are applicable to this document.

4 Abbreviations

The following abbreviations are applicable to this document.

CRC: cyclic redundancy check

HF: high frequency

UHF: ultra high frequency

No.	Chinese Name	English Name	Description	Length Digit	Optional / Required	Range
1	在制品唯一标识符	IN-PROCESS PRODUCTS UNIQUE IDENTIFIER	Unique identification of in-process products	40	Required	Comply with relevant standards. If there is no standard, it shall be customized by enterprise
2	所属产品种类	IN-PROCESS PRODUCTS TYPE	Type of in-process products	10	Optional	Comply with relevant standards. If there is no standard, it shall be customized by enterprise
3	所属订单号	ORDER NUMBER	Corresponding production order number	48	Optional	Relevant production order number
4	生产日期	DATE OF MANUFACTURE	Current date of manufacture	21	Optional	Date
5	加工状态	PROCESSING STATE	Whether processing is completed	3	Optional	000: to be processed; 001: being processed; 010: re-processed; 011: processing completed; 100: scrapped
6	加工人员	PROCESSING EMPLOYEE	Information of personnel completing the processing	128	Optional	Unique identifier of personnel
7	合格信息	QUALIFIED INFORMATION	Whether it is qualified	1	Optional	0: qualified; 1: disqualified

5.4 Information of Raw Materials

Raw materials include raw materials or accessories that are needed in production.

The sub-index of raw materials shall be 5 digits. In accordance with Table 7, write in the identification information. If the information contains corresponding data items, then, the identification is set to 1, otherwise, it is set to 0.

Table 7 -- Raw Materials Sub-index Format

Identification of Type	Identification of Raw Material Vendor	Identification of In Date	Identification of Batch Number	Identification of Inspection Status
1 digit	1 digit	1 digit	1 digit	1 digit

Products	Number		Date	Number	Information
1 digit	1 digit	1 digit	1 digit	1 digit	1 digit

Information of finished products may include: product unique identifier, type of products, order number, vendor, production date, batch number and qualified information. See the data format in Table 10.

Table 10 -- Finished Products Information Data Format

No.	Chinese Name	English Name	Description	Length Digit	Optional / Required	Range
1	成品唯一标识符	PRODUCT UNIQUE IDENTIFIER	Unique identifier of finished products	40	Required	Comply with relevant standards. If there is no standard, it shall be customized by enterprise
2	所属产品种类	TYPE OF PRODUCTS	Classification of finished products	10	Optional	Comply with relevant standards. If there is no standard, it shall be customized by enterprise
3	所属订单号	ORDER NUMBER	Order number of finished products	48	Optional	Corresponding order number
4	生产厂家	VENDOR	Vendor of finished products	21	Optional	Comply with relevant standards. If there is no standard, it shall be customized by enterprise
5	生产日期	PRODUCTION DATE	Production date of finished products	21	Optional	Date type
6	批次号	BATCH NUMBER	Production batch of finished products	32	Optional	Production batch number
7	合格信息	QUALIFIED INFORMATION	Whether finished products are qualified	1	Optional	0: qualified; 1: disqualified

5.6 Information of Storage Equipment

Storage equipment includes containers for holding and transferring production factors (such as: materials and in-process products), such as: hanging baskets, turnover boxes, trays and pallets, etc.

The sub-index of storage equipment shall be 4 digits. In accordance with Table 11, write in the identification information. If the information contains corresponding data items, then, the identification is set to 1, otherwise, it is set to 0.

Table 13 -- Tools Sub-index Format

Identification of Type of Tools	Identification of Manufacturer	Identification of Expiration Date	Identification of Usage State
1 digit	1 digit	1 digit	1 digit

Information of tools may include: tool unique identifier, type of tools, manufacturer, expiration date and usage state. See the data format in Table 14.

Table 14 -- Storage Equipment Information Data Format

No.	Chinese Name	English Name	Description	Length Digit	Optional / Required	Range
1	工具唯一标识符	TOOL UNIQUE IDENTIFIER	Unique identifier of tools	20	Required	Internally defined by each factory
2	工具种类	TYPE OF TOOLS	Category of tools	10	Optional	Comply with relevant standards. If there is no standard, it shall be customized by enterprise
3	生产厂家	MANUFACTURER	Information of tool manufacturer	21	Optional	Identifier of tool manufacturer
4	过期日期	EXPIRATION DATE	Expiration date of tools	21	Optional	Expiration date
5	使用状态	USAGE STATE	Current state of tools	2	Optional	00: being used; 01: to be maintained; 10: already maintained; 11: scrapped

5.8 Information of Equipment

Equipment includes machines and devices directly involved in the production process, such as: processing equipment and inspection equipment, etc.

The sub-index of equipment shall be 6 digits. In accordance with Table 15, write in the identification information. If the information contains corresponding data items, then, the identification is set to 1, otherwise, it is set to 0.

Table 15 -- Equipment Sub-index Format

Identification of Equipment Number	Identification of Type	Identification of Manufacturer	Identification of Date of Annual Inspection	Identification of Expiration Date	Identification of Usage State
1 digit	1 digit	1 digit	1 digit	1 digit	1 digit

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