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**General technical requirements for agricultural internet of
things - Part 2: Facility horticulture**

农业物联网通用技术要求 第2部分：设施园艺

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting.

This document is Part 2 of GB/T 44985 General Technical Requirements for Agricultural Internet of Things. GB/T 44985 has been published as follows part.

- Part 1: Field planting;
- Part 2: Facility horticulture;
- Part 3: Aquaculture;
- Part 4: Livestock and poultry farming.

Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents.

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This document was drafted by: Beijing Academy of Agricultural and Forestry Sciences Information Technology Research Center, Jiangsu University, Southeast University, Nongxin (Nanjing) Smart Agriculture Research Institute Co., Ltd., Beijing Academy of Agricultural and Forestry Sciences Intelligent Equipment Technology Research Center, China Agricultural University, Guangdong Modern Agricultural Equipment Research Institute, Beijing Jingpeng Global Technology Co., Ltd., China Agricultural Mechanization Research Institute Group Co., Ltd., Jiangsu Academy of Agricultural Sciences, Nanjing Agricultural Mechanization Research Institute of the Ministry of Agriculture and Rural Affairs, Huaiyin Agricultural Science Research Institute of Jiangsu Xuhuai Region, Kunshan Yonghong Greenhouse Co., Ltd., Shanghai Qianhui Greenhouse Engineering Technology Co., Ltd., Jiangsu Naite Modern Agricultural Facilities Co., Ltd., Changshu Jiasheng Agricultural Science and Technology Development Co., Ltd.

Co., Ltd., Chuangjing Agricultural Equipment Group Co., Ltd., Jiangsu Chunqiu Agricultural Facilities Co., Ltd., Liaocheng University, Liaocheng Hongyao Biotechnology Co., Ltd.

Co., Ltd., Jiuchunjian Baoding Internet of Things Technology Co., Ltd., Beijing Xinchuang Digital Technology Co., Ltd., Shandong Maosheng International Trading Co., Ltd., Chengdu

Yilian Vision Technology Co., Ltd.

The main drafters of this document are: Mao Hanping, Chen Tianen, Chen Junjie, Zhang Xiaodong, Lu Xianqi, Zuo Zhiyu, Chen Liping, Song Jinxiu, Zheng Wengang, Gao Hongyan, Ni Jiheng, Yang Ning, Pan Xiaoqing, Zhang Yixue, Jiang Shuwen, Xu Feiyun, Chen Dong, Hu Jianzhong, Wu Wenbiao, Liu Nihong, Li Huiling, Zhang Chi, Zhu Wanshan, Zhou Zengchan, Wang Cong, Zhang Zhonglili, Zhang Xin, Zhang Shirui, Yuan Yanwei, Wang Lili, Bao Encai, Jin Chengqian, Luo Fei, Yu Yihan, Sha Liuyun, Sun Guohua, Huang Zhigang, Xie Xian, Li Yao, Liu Hongjian, Guo Xianguang, Zhang Jinbo, Hua Fengbin, Zhao Jikuan, Liu Zhenheng, Li Jian, and Xu Xiaomin.

Introduction

GB/T 44985 "General Technical Requirements for Agricultural Internet of Things" is intended to support the development of agricultural Internet of Things, agricultural informatization and agricultural modernization.

Construction, GB/T 44985 is planned to consist of the following 10 parts.

- Part 1: Field planting. The purpose is to establish general technical requirements for the Internet of Things applicable to field planting applications.
- Part 2: Facility Horticulture. The purpose is to establish common technical requirements for the Internet of Things applicable to facility horticulture applications.
- Part 3: Aquaculture. The purpose is to establish common technical requirements for the Internet of Things applicable to aquaculture applications.
- Part 4: Livestock and poultry farming. The purpose is to establish general technical requirements for the Internet of Things applicable to livestock and poultry farming applications.
- Part 5: Agricultural machinery operation. The purpose is to establish general technical requirements for the Internet of Things applicable to agricultural machinery operation applications.
- Part 6: Orchard and tea plantation production. The purpose is to establish general technical requirements for the Internet of Things applicable to orchard and tea plantation production.
- Part 7: Agricultural products processing and circulation. The purpose is to establish general Internet of Things technologies applicable to agricultural products processing and circulation applications Require.
- Part 8: Agricultural materials circulation management. The purpose is to establish the general technical requirements of the Internet of Things applicable to agricultural materials circulation management.

- Part 9: Agricultural product quality and safety monitoring. The purpose is to establish general IoT technology applicable to agricultural product quality and safety monitoring. Technical requirements.

- Part 10. Agricultural resource and environmental monitoring. The purpose is to establish general Internet of Things technologies applicable to agricultural resource and environmental monitoring Require.

General technical requirements for agricultural Internet of Things Part 2: Protected horticulture

1 Scope

This document establishes the overall architecture of the facility horticulture Internet of Things, and stipulates the overall requirements, information perception, environmental control, Technical requirements for data transmission and interfaces, information applications and terminals, adaptability and security, etc.

This document is applicable to the design and manufacture of information perception, data transmission, and environmental control systems for the IoT environment and water and fertilizer management of facility horticulture. and use.

2 Normative references

GB/T 2099.1

GB/T 2423.18-2021

GB/T 2423.24-2022

GB 3100

GB/T 4208-2017

GB 4793

GB 4943.1-2022

GB/T 5465.2

GB/T 9254.1-2021

GB/T 13283

GB/T 15629.3

GB/T 20984

GB/T 22239

GB/T 23393