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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 39925-2021

**Stationary equipment for agriculture - Data communications
network for livestock farming**

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Table of Contents

Foreword

1 Scope

2 Normative references

3 Terms and definitions

Foreword

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

The translation method used in this standard is equivalent to ISO 17532.2007 "Agricultural Fixed Equipment Animal Husbandry Data Communication Network".

The Chinese documents that have a consistent correspondence relationship with the normatively cited international documents in this standard are as follows.

---GB/T 2659-2000 Code for names of countries and regions in the world (eqvISO 3166-1.1997)

---GB/T 4208-2017 Enclosure protection class (IP code) (IEC 60529.2013, IDT)

---GB/T 5226.1-2019 Electrical safety of machinery Electrical equipment of machinery Part 1.General technical conditions (IEC 60204-1.2016, IDT)

---GB/T 12406-2008 represents the code of currency and funds (ISO 4217.2001, IDT)

This standard was proposed by the China Machinery Industry Federation.

This standard is under the jurisdiction of the National Agricultural Machinery Standardization Technical Committee (SAC/TC201).

Drafting organizations of this standard. Chinese Academy of Agricultural Mechanization Science, Anhui Hangjia Zhiyuan Technology Co., Ltd., Beijing Xingkedi Technology Co., Ltd.

Co., Ltd., Northeast Agricultural University, Beijing Jingpeng Huanyu Animal Husbandry Technology Co., Ltd., Shenzhen Runnong Technology Co., Ltd., Henan Technology

the University.

1 Scope

This standard specifies protocols for automatic and interactive communication and control

of computer systems used in animal husbandry production. This standard supports Ministry and communications on the Internet.

This standard defines the basic protocol for data exchange and uses a common data structure. The agreement can be expanded according to future needs.

This agreement only applies to simple and/or well-defined entities.

This standard involves network communications used for livestock production services, and these services are provided by the equipment in the system. This standard does not apply to children

System internal communication.

The transmitted data format is based on the ADIS and ADED standards defined in ISO 11787 and ISO 11788, and can also be used in this standard

XML/ADED as described in. XML/ADED is similar to the ADIS standard specified in ISO 11787, and its data format is not suitable for real

Time data exchange.

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 article

Pieces. For undated reference documents, the latest version (including all amendments) is applicable to this document.

ISO 3166-1 Codes for the names of countries and regions in the world Part 1. Country codes (Codes for the presentation of

names of countries and their subdivisions-Part 1. Country codes)

ISO 4217 represents the code of currency and funds
(Codes for the representation of currencies and funds)

ISO 11787 Data exchange syntax between agricultural and forestry equipment management computers and processing computers (Machinery for agriculture and forestry-Data interchange between management computer and processing computers-Data interchange syntax)

ISO 11788-1 Electronic data exchange between agricultural information systems. A dictionary of agricultural electronic data elements. Part 1. General description
(Electronic data interchange between information systems in agriculture-Agricultural data elements)

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dictionary-Part 1.Generaldescription)

IEC 60204-1 Electrical Safety of Machinery Electrical Equipment Part 1.General Technical Conditions (Safetyofmachinery-E-

lectricalequipmentofmachines-Part 1.Generalrequirements)

IEC 60529 Enclosure protection level (IP code) [Degrees of protection provided by enclosures (IP Code)]

3 Terms and definitions

The following terms and definitions defined by ISO 11787 and ISO 11788-1 apply to this document.

3.1

Bluetooth

An industry standard for realizing short-distance wireless interactive link communication between devices.

3.2

Device

A machine or component connected to a computer system used in animal husbandry production.