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

GB/T 35381.10-2020

**Tractors and machinery for agriculture and forestry - Serial control and
communications data network - Part 10: Task controller and
management information system data interchange**

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Foreword

GB/T 35381 "Agricultural and Forestry Tractors and Machinery Serial Control and Communication Data Network" is divided into the following 14 parts:

- Part 1: General Standards for Data Communication;
- Part 2: Physical layer;
- Part 3: Data Link Layer;
- Part 4: Network layer;
- Part 5: Network Management;
- Part 6: Virtual Terminal;
- Part 7: Tool message application layer;
- Part 8: Powertrain news;
- Part 9: Tractor ECU;
- Part 10: Data exchange between task controller and management information system;
- Part 11: Data Element Dictionary;
- Part 12: Diagnostic services;
- Part 13: File Server;
- Part 14: Sequence control:

This part is part 10 of GB/T 35381:

This section was drafted in accordance with the rules given in GB/T 1:1-2009:

This part uses the redrafting law to amend and adopt ISO 11783-10:2015 "Agricultural and forestry tractors and machinery serial control and communication data network

Network Part 10: Data Exchange between Task Controller and Management Information System:

The technical differences between this part and ISO 11783-10:2015 and the reasons are as follows:

---Regarding normative reference documents, this section has made adjustments with technical differences to adapt to my country's technical conditions and adjustments:

The situation is collectively reflected in Chapter 2 "Normative Reference Documents", and the specific adjustments are as follows:

* Replace ISO 11783-1 with GB/T 35381:1 which is equivalent to adopting international standards (see Chapter 3, Chapter 4, 5:3, 5:6 and

7:1);

* Replace ISO 11783-3 with GB/T 35381:3 which is equivalent to the international standard (see 6:6:3, 6:8:1, 8:7 and Appendix B);

* Replace ISO 11783-5 with GB/T 35381:5 equivalent to the international standard (see 6:6:2, 6:6:3, Appendix A and Appendix

D);

* Replace ISO 11783-6 with GB/T 35381:6 equivalent to the international standard (see 6:5, 8:6:2, 8:6:4, 8:7, Appendix A

And Appendix D);

* Replace ISO 11783-7 with GB/T 35381:7 equivalent to the international standard (see 6:5, 6:6:3, 6:6:5, Appendix A,

Record B, Appendix D and Appendix G);

* Replace ISO 11783-11 with GB/T 35381:11 equivalent to the international standard (see 6:8:1, 8:7, Appendix A, Appendix

B, Appendix D and Appendix F);

* Replace ISO 11783-12 with GB/T 35381:12, which is equivalent to the international standard (see Appendix A, Appendix D and Appendix F):

--- Modify WGS84 to CGS2000 to adapt to my country's technical conditions (see 8:6:4 and Appendix D):

---The Beidou Positioning System (BDS) has been added to adapt to my country's technical conditions (see 6:2, 8:6:3, 8:7, Appendix A and Appendix D):

This part was proposed by China Machinery Industry Federation:

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

Drafting organizations of this section: Lovol Heavy Industries Co., Ltd., Chinese Academy of Agricultural Mechanization Sciences, Anhui Zhongke Intelligent Perception Industrial Technology

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1 Scope

GB/T 35381 specifies the serial control and communication data network of agricultural and forestry tractors and suspended, semi-suspended, traction or self-propelled machines:

Its purpose is to standardize data transmission methods and formats between sensors, drivers, control components, information storage and display units: These devices

Installed on tractors or implements or standard equipment on them:

This part of GB/T 35381 specifies the task controller application layer and defines the communication between the task controller and the electronic control unit

Requirements and business: This part also specifies the data format for communication with the farm management computer, control calculations, and messages sent to the control function:

?format:

This part is applicable to the data of task controller and management information system in the serial control and communication data network of agricultural and forestry tractors and machinery

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 references, the latest version (including all amendments) applies to this document:

GB/T 35381:1 Agricultural and forestry tractors and machinery serial control and communication data network Part 1: Data communication general standard