International

ISO 11783-3

Tractors and machinery for agriculture and forestry — Serial control and communications data network —

Part 3: Application layer, transport layer and network layer

Tracteurs et matériels agricoles et forestiers — Réseaux de commande et de communication de données en série —

Partie 3: Couche d'application, couche transport et couche réseau

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This document was prepared by Technical Committee ISO/TC 23, *Tractors and machinery for agriculture and forestry*, Subcommittee SC 19, *Agricultural electronics*.

This fifth edition cancels and replaces the fourth edition (ISO 11783-3:2018), which has been technically revised.

The main changes are as follows:

— term entries have been added in Clause 3;

— former Annex A has been deleted, and subsequent annexes have been relabelled;

— default priority has been replaced by assigned priority;

— transport protocol abort handling has been improved to unambiguously close a transport session;

— proprietary B PG has been added to data page one;

— length limit for Proprietary A and Proprietary A2 PGs have been removed;

— usage of 11-bit CAN IDs has been limited;

— a control function responding with a NACK when receiving unsupported PDU1 type messages has been made possible.

A list of all parts in the ISO 11783 series can be found on the ISO website.

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The ISO 11783 series specifies a communications system for agricultural equipment based on the ISO 11898-1 CAN protocol. The SAE J1939 series[1)], on which parts of ISO 11783 series are based, were developed jointly for use in truck and bus, construction, and agriculture applications. Joint documents have been completed to allow electronic units that meet the truck and bus SAE J1939 specifications to be used by agricultural and forestry equipment with minimal changes. General information on the ISO 11783 series can be found in ISO 11783-1.

The purpose of the ISO 11783 series is to provide an open, interconnected system for on-board electronic systems. It is intended to enable electronic control units (ECUs) to communicate with each other, providing a standardized system.

1) Society of automotive engineers.