INTERNATIONAL STANDARD

ISO 11519-2

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AMENDMENT 1
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Road vehicles — Low-speed serial data communication —

Part 2:
Low-speed controller area network (CAN)

AMENDMENT 1

Véhicules routiers — Communication en série de données à vitesse basse —

Partie 2: Gestionnaire de réseau de communication à faible vitesse (CAN)

AMENDEMENT 1

Reference number
ISO 11519-2:1994/Amd.1:1995(E)

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Amendment 1 to International Standard ISO 11519-2:1994 was prepared by Technical Committee ISO/TC 22, *Road vehicles*, Subcommittee SC 3, *Electrical and electronic equipment*.

ISO 11519 consists of the following parts, under the general title *Road vehicles — Low-speed serial data communication* :

— *Part 1: General and definitions*

— *Part 2: Low-speed controller area network (CAN)*

— *Part 3: Vehicle area network (VAN)*

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Road vehicles — Low-speed serial data communication —

Part 2:
Low-speed controller area network (CAN)

AMENDMENT 1

Page iv

Insert new page v and the following Introduction.

Introduction

The acceptance and introduction of serial data communication to more and more applications has led to requirements that the assignment of message identifiers to communication functions be standardized for certain applications. These applications can be realized with CAN more comfortably, if the address range that has been defined in ISO 11519-1 by 11 identifier bits is enlarged.

Therefore a second message format ("extended format") is introduced that provides a larger address range defined by 29 bits. This will relieve the system designer from compromises with respect to defining well-structured naming schemes. Users of CAN who do not need the identifier range offered by the extended format can rely on the conventional 11 bit identifier range ("standard format") further on.

In order to distinguish standard and extended format the first reserved bit of the CAN message format, as it is defined in ISO 11519-1, is used. This is done in such a way that the message format in ISO 11519-1 is equivalent to the standard format and therefore is still valid. Furthermore, the extended format has been defined so that messages in standard format and extended format can coexist within the same network.

Amendment 1 to ISO 11519-2 details the necessary changes to the 1994 Standard to include both formats.

Page 10

Replace the wording below item b.2 of 6.1 (Service of the LLC sublayer) by the following.

According to the two different LLC services there are two types of frames from or to the user:

— LLC Data Frame,

— LLC Remote Frame.

There are two formats for both Data Frames and Remote Frames which differ in the length of the identifier (see 6.2): Frames with an 11 bit IDENTIFIER are denoted STANDARD LLC Frames, and Frames containing a 29 bit IDENTIFIER are denoted Extended LLC Frames.