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Second edition
2011-03-01

Road vehicles — Tachograph systems — Part 2: Electrical interface with recording unit

Véhicules routiers — Systèmes tachygraphes —

Partie 2: Interface électrique avec unité d'enregistrement



Reference number
ISO 16844-2:2011(E)

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Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
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Published in Switzerland

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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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. 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.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 16844-2 was prepared by Technical Committee ISO/TC 22, *Road vehicles*, Subcommittee SC 3, *Electrical and electronic equipment*.

This second edition cancels and replaces the first edition (ISO 16844-2:2004), which has been technically revised.

ISO 16844 consists of the following parts, under the general title *Road vehicles — Tachograph systems*:

- *Part 1: Electrical connector*
- *Part 2: Electrical interface with recording unit*
- *Part 3: Motion sensor interface*
- *Part 4: CAN interface*
- *Part 5: Secured CAN interface*
- *Part 6: Diagnostics*
- *Part 7: Parameters*

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Introduction

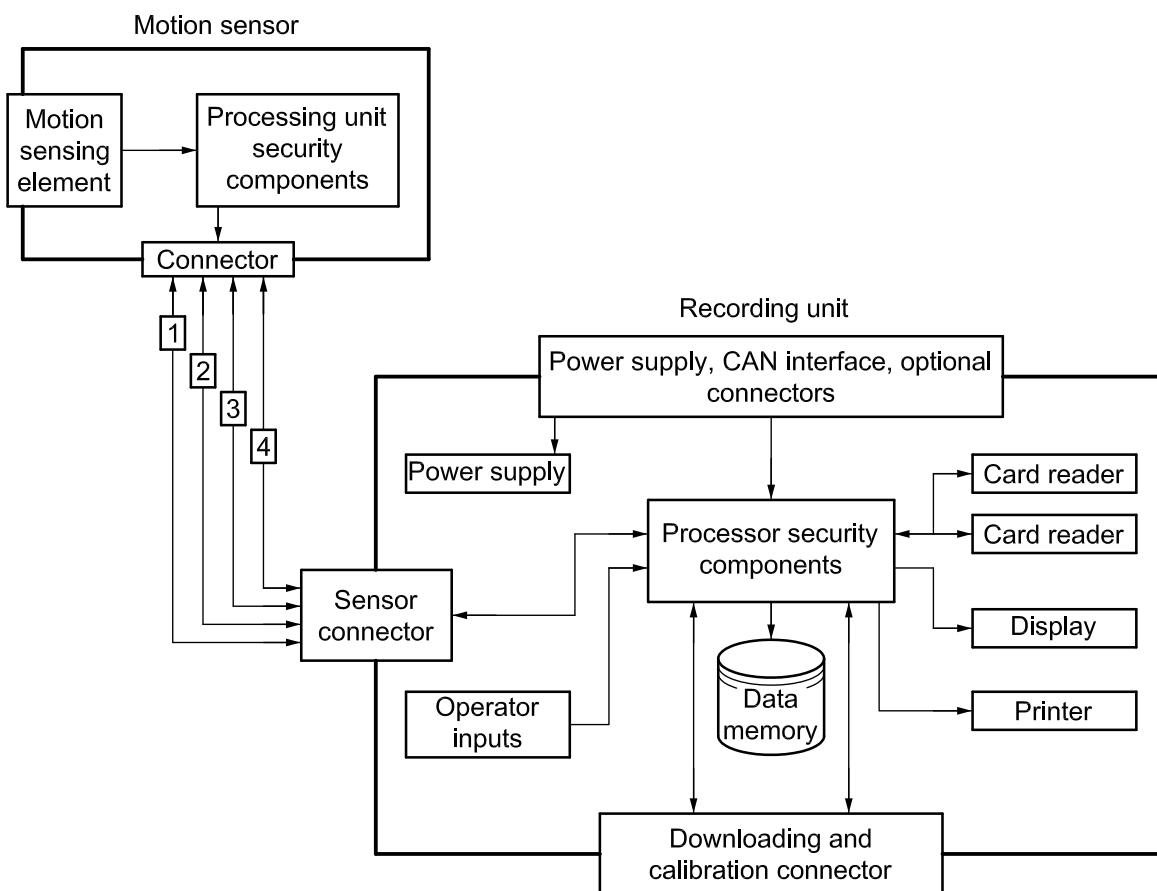
This part of ISO 16844 supports and facilitates the communication between electronic units and a tachograph. The tachograph is based upon European Council Regulation (EC) No. 561/2006 and (EEC) No. 3821/85 as last amended.

Its purpose is to ensure compatibility of tachographs from various tachograph manufacturers.

The basis of the digital tachograph concept is a Recording Unit (RU) that stores data related to the activities of the drivers of the vehicle on which it is installed. When the RU is in normal operation status, the data stored in its memory are made accessible to various entities such as drivers, authorities, workshops and transport companies in a variety of ways: they may be displayed on a screen, printed by a printing device or downloaded to an external device. Access to stored data is controlled by a smart card inserted in the tachograph.

In order to prevent manipulation of the tachograph system, the speed signal sender (motion sensor) is provided with an encrypted data link.

A typical tachograph system is shown in Figure 1.



Key

- | | |
|-------------------|---------------------------|
| 1 positive supply | 3 speed signal, real time |
| 2 battery minus | 4 data signal in/out |

Figure 1 — Typical tachograph system