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Alcohol interlocks - Test methods and performance requirements - Part 7: Installation document

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>See Eesti standard EVS-EN 50436-7:2024 sisaldab Euroopa standardi EN 50436-7:2024 ingliskeelset teksti.</p> <p>Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.</p> <p>Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 26.07.2024.</p> <p>Standard on kättesaadav Eesti Standardimis- ja Akrediteerimiskeskusest.</p>	<p>This Estonian standard EVS-EN 50436-7:2024 consists of the English text of the European standard EN 50436-7:2024.</p> <p>This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation and Accreditation.</p> <p>Date of Availability of the European standard is 26.07.2024.</p> <p>The standard is available from the Estonian Centre for Standardisation and Accreditation.</p>
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English Version

Alcohol interlocks - Test methods and performance requirements - Part 7: Installation document

Ethylotests antidémarrage - Méthodes d'essais et
exigences de performance - Partie 7: Document
d'installation

Alkohol-Interlocks - Prüfverfahren und Anforderungen an
das Betriebsverhalten - Teil 7: Einbaudokument

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European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

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European foreword

This document (EN 50436-7:2024) has been prepared by CLC/BTTF 116-2 “Alcohol Interlocks”.

The following dates are fixed:

- latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2025-07-01
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2027-07-01

This document supersedes EN 50436-7:2016 and all of its amendments and corrigenda (if any).

EN 50463-7:2024 includes the following significant technical changes with respect to EN 50436-7:2016:

- Clause 2, Normative references: ISO 16750-2:2023 was added;
- Clause 6.7, Installation Instructions: details of the databus connection were updated;
- Clause 6.9, Mounting position of alcohol interlock handset and alcohol interlock control unit: complete clause was updated to define the responsibility for installation of aftermarket devices;
- Table C.1, Information of the connection schematics: cell of item 1 under the column “Function” was updated to differentiate between “operational mode” and “low power consumption”;
- Footnote “a” and footnote “c” of Table C.1 were updated;
- Bibliography: item 1 was replaced with the information of the published standard.

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Any feedback and questions on this document should be directed to the users’ national committee. A complete listing of these bodies can be found on the CENELEC website.

Introduction

The purpose of alcohol interlocks is to enhance traffic safety by preventing persons with alcohol concentrations exceeding a set limit value from driving a motor vehicle. EN 50436 series specifies test methods and essential performance requirements for alcohol interlocks and gives guidance for authorities, decision makers, purchasers and users.

There are several ways in which alcohol interlocks can be used:

- installed in a vehicle as a general preventive measure for the promotion of traffic safety, on a voluntary basis or required legally in certain vehicles (e.g. vehicles for children transport); or
- in vehicles as ordered by a court or an administrative authority as part of a drink-driving offender programme; or
- for persons subject to a medical or rehabilitation programme.

Alcohol interlocks are often intended for aftermarket installation. For this purpose, they are connected to the electric and control circuits of the vehicle.

This installation of an alcohol interlock should not interfere with the proper performance of the vehicle, should not impair the safety and security of the vehicle and should be as simple as possible. Additionally, the installation costs should be low in relation to the total cost of the alcohol interlock.

Therefore, it is desirable to have a standardized installation document to provide technical information to the installer of an alcohol interlock into a certain vehicle model, while the responsibility for the safe installation will remain on the alcohol interlock installer.

1 Scope

This document defines the content and the layout of an installation document providing necessary and useful information about the aftermarket installation of an alcohol interlock into a vehicle. It details the type of the vehicle, connection schematics, accessibility instructions and recommendations to avoid safety risks.

The content and layout ensures that the information document is easy to use by installers in different countries and can be available in paper or electronic format.

This document is applicable to alcohol interlocks according to EN 50436-1:2023.

This document is mostly intended for vehicle manufacturers and manufacturers of alcohol interlocks.

This document does not apply to:

- the process of handling the installation documents;
- the installation process;
- information related to education and training for installers;
- general performance requirements for alcohol interlocks (see EN 50436-1:2023);
- the installation of the alcohol interlock during the production of the vehicle.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 50436-1:2023, *Alcohol interlocks - Test methods and performance requirements - Part 1: Instruments having a mouthpiece and measuring breath alcohol for drink-driving-offender programs and general preventive use*

EN ISO 216, *Writing paper and certain classes of printed matter - Trimmed sizes - A and B series, and indication of machine direction (ISO 216)*

ISO 16750-2:2023, *Road vehicles — Environmental conditions and testing for electrical and electronic equipment — Part 2: Electrical loads*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp/>
- IEC Electropedia: available at <https://www.electropedia.org/>

3.1

alcohol interlock

device that acts as a vehicle immobiliser which, when installed, can be brought into the not blocking state only after the presentation and analysis of an accepted breath sample with an alcohol concentration below a limit value

[SOURCE: EN 50436-1:2023, 3.2]