

# SLOVENSKI STANDARD

## SIST EN 50436-2:2014

01-marec-2014

Nadomešča:  
SIST EN 50436-2:2008

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### Alkoholne zapore - Preskusne metode in zahtevane lastnosti - 2. del: Instrumenti z ustnikom, ki merijo alkohol v sapi, za splošno preventivno uporabo

Alcohol interlocks - Test methods and performance requirements - Part 2: Instruments having a mouthpiece and measuring breath alcohol for general preventive use

Alkohol-Interlocks - Prüfverfahren und Anforderungen an das Betriebsverhalten - Teil 2: Geräte mit Mundstück zur Messung des Atemalkohols für den allgemein-präventiven Einsatz

Ethylotests anti-démarrage - Méthodes d'essais et exigences de performance - Partie 2: Appareils équipés d'un embout et mesurant le taux d'alcoolémie de l'air expiré, à usage préventif général

**Ta slovenski standard je istoveten z: EN 50436-2:2014**

#### **ICS:**

13.200	Preprečevanje nesreč in katastrof	Accident and disaster control
43.040.80	Varnostne naprave in sistemi za zadrževanje	Safety installations and restraint systems

**SIST EN 50436-2:2014**

**en**

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
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**EN 50436-2**

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ICS 43.040.10; 71.040.40

Supersedes EN 50436-2:2007

English version

**Alcohol interlocks -  
Test methods and performance requirements -  
Part 2: Instruments having a mouthpiece and measuring breath alcohol  
for general preventive use**

Ethylotests anti-démarrage -  
Méthodes d'essais et exigences de  
performance -  
Partie 2: Appareils équipés d'un embout  
et mesurant le taux d'alcoolémie de l'air  
expiré, à usage préventif général

Alkohol-Interlocks -  
Prüfverfahren und Anforderungen an das  
Betriebsverhalten -  
Teil 2: Geräte mit Mundstück zur Messung  
des Atemalkohols für den allgemein-  
präventiven Einsatz

**STANDARD PREVIEW**  
This European Standard was approved by CENELEC on 2013-10-21. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

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**CENELEC**

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

**CEN-CENELEC Management Centre: Avenue Marnix 17, B - 1000 Brussels**

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## Foreword

This document (EN 50436-2:2014) 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) 2014-10-21
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2016-10-21

This document supersedes EN 50436-2:2007.

EN 50436-2:2014 includes the following significant technical changes with respect to EN 50436-2:2007:

- EN 50436-1 is now the basic standard and EN 50436-2 describes only the differences in the requirements compared to EN 50436-1.
- Several of the changes in EN 50436-1 have already been part of EN 50436-2:2007.
- Sub-clause 4.7: statements for download and evaluation of the data memory are revised.
- Sub-clause 9.3: the temperature test is revised.

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

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## 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 decision makers, purchasers and users.

The content and requirements of EN 50436-1 are based on the experience and necessities of drink driving offender programmes in different countries over several decades. Therefore, alcohol interlocks used in programmes for drink driving offenders should comply with the above European Standard. Part 1 is the principal document in EN 50436 series.

Alcohol interlocks for general preventive use are the subject of this part of EN 50436. General preventive use, which concerns a much larger number of drivers and vehicles, applies to both professional and private drivers of motor vehicles.

The purpose of EN 50436 series is to specify essential performance requirements and to provide the respective test methods for available technologies. The technology of alcohol interlocks continues to evolve, and further innovations can be expected. These could be considered in new parts or revisions of this European Standard.

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## 1 Scope

This European Standard specifies test methods and performance requirements for breath alcohol controlled alcohol interlocks having a mouthpiece. It covers alcohol interlocks intended for general preventive use.

This European Standard is directed at test laboratories and manufacturers of alcohol interlocks. It defines requirements and test procedures for type testing.

Several parameters (for example alcohol concentration or breath volume) are specified in this European Standard for the purpose of type testing according to this standard only. However, it may be necessary due to national regulations or depending on user requests to set the values of the prescribed parameters differently when the alcohol interlocks are in use.

This European Standard also applies to alcohol interlocks integrated into other control systems of the vehicle as well as to accessory devices connected to the alcohol interlock.

This European Standard does not apply to

- alcohol interlocks intended for use in traffic safety programmes for drink driving offenders (see EN 50436-1),
- instruments measuring the alcohol concentration in the ambient air in the vehicle,
- alcohol interlocks not having a mouthpiece,
- methods of installation and connections to the vehicle.

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## 2 Normative references (standards.iteh.ai)

*This clause of EN 50436-1 is applicable excepted as follows:*

*Add the following after the 1<sup>st</sup> paragraph:*  
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EN 50436-1, *Alcohol interlocks - Test methods and performance requirements - Part 1: Instruments for drink driving offender programmes*

## 3 Terms and definitions

*This clause of EN 50436-1 is applicable.*

## 4 General requirements

### 4.1 Blocking and not-blocking

*This subclause of EN 50436-1 is applicable.*

### 4.2 Influence on the vehicle motor

*This subclause of EN 50436-1 is applicable.*

### 4.3 Tampering

*This subclause of EN 50436-1 is applicable.*

### 4.4 Concentration limit

*This subclause of EN 50436-1 is applicable.*



#### 4.5 Mouthpiece

*This subclause of EN 50436-1 is applicable.*

#### 4.6 Readiness

*This subclause of EN 50436-1 is applicable.*

#### 4.7 Data memory, download and evaluation

A data memory in the alcohol interlock is optional.

Examples of events which may be recorded are

- breath samples,
- test results,
- blocking and not-blocking,
- information about the use of the vehicle, such as motor start and stop, vehicle motion or distance driven,
- missed retest,
- overriding and bypassing,
- handset exchange,
- connections and disconnections of supply voltage,
- changing of parameters and adjustments,
- results of calibration, verification and/or readjustment.

NOTE 1 For a full list of events see EN 50436-1:2014, Annex A.  
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If the alcohol interlock has a data memory,

- events shall be recorded with date and time, even if the handset is disconnected,
- data shall be stored in such a way that it will not be lost or corrupted,
- it shall be possible to download and evaluate the data; downloading and reading of the data shall only be possible by authorised access,
- it shall be possible to switch off the record of personal use data.

NOTE 2 The data memory in the alcohol interlock includes both technical diagnostic and personal use data.

NOTE 3 There may be national regulations on data storage, transmission and evaluation.

NOTE 4 It is foreseen that an additional part of this series of European Standards for alcohol interlocks will be developed concerning data encryption and data protection.

#### 4.8 Retests

The capability of the alcohol interlock to request retests by visual and/or audible signals at adjustable random time intervals is optional.

NOTE National regulations may restrict the use of visual or audible signals.

When requesting a retest, the alcohol interlock shall remain in the not-blocking state as long as the motor is running or the restart period has not expired.