

European Standards for Alcohol Interlocks

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What is an European Standard ?

European Standard (EN):

- high relevance
- often referenced in European or national laws and regulations
- used as the detailed technical requirements

Participation of all stakeholders:

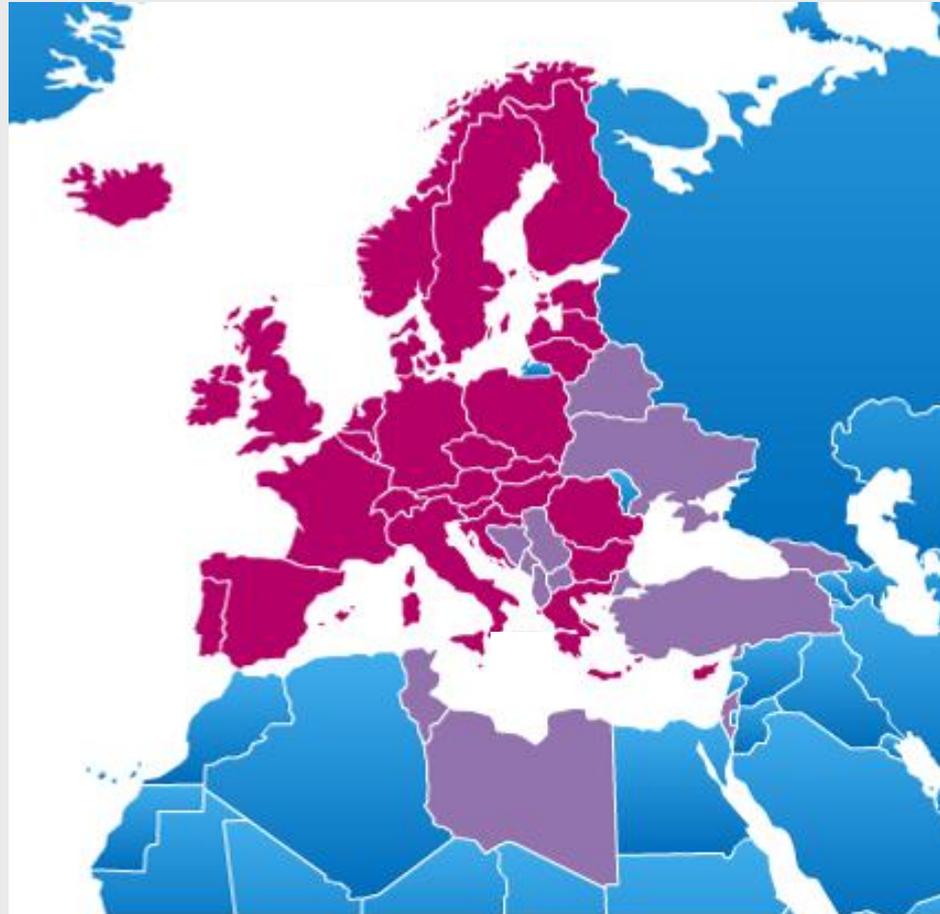
- authorities
- users
- manufacturers
- testing laboratories

- represented in each national committee
- voting for acceptance by national committees

European Standards



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



Cenelec Committee BTTF 116-2 “Alcohol Interlocks”

Started in 2003

Convenor: Johannes Lagois

Actually participating countries:

Belgium

Finland

France

Germany

Netherlands

Norway

Spain

Sweden

United Kingdom

Observers:

Canada (ACS)

South Africa (PFK)

USA (Smart Start)

EN 50436 series of European Standards for Alcohol Interlocks

Part 1: for drink-driving-offender programs

Part 2: for general preventive use

Part 3: guidance

Part 4: --

Part 5: --

Part 6: data security

EUROPEAN STANDARD **EN 50436-1**

NORME EUROPÉENNE

EUROPÄISCHE NORM **November 2005**

ICS 13.320; 43.040.10

English version

**Alcohol interlocks –
Test methods and performance requirements
Part 1: Part 1: Instruments for
drink-driving-offender programs**

Alcohol interlocks –
Méthodes d'essais et exigences
de performance
Partie 1: Appareils pour des programmes
pour conducteurs en état d'ivresse

Alkohol-Interlocks –
Prüfverfahren und Anforderungen
an das Betriebsverhalten
Teil 1: Geräte für Programme
mit Trunkenheitsfahren

This European Standard was approved by CENELEC on 2005-06-01. 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.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

CENELEC

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

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

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Ref. No. EN 50436-1:2005 E

EN 50436-1

Alcohol interlocks - Test methods and performance requirements

Part 1: Instruments for drink-driving-offender programs

**November 2005:
officially published**

**Referenced in legislation (in B, F, FIN, NL, S)
(used as input in USA, JAP)**

**Actually under revision in
Cenelec committee
(publication in 2013 expected)**

Performance tests of EN 50436-1

- measurement accuracy of the alcohol concentration
- environmental tests with different ambient temperatures and humidity
- tests of time to be ready
- durability tests with vibrations and dropping
- measures against circumvention and manipulation
- influence of other exhaled gases than alcohol
- long term behaviour
- electrical tests for supply voltage and durability against short-circuits
- electromagnetic compatibility and electrical disturbances
- content of the instructions for installation and instructions for use

EUROPEAN STANDARD **EN 50436-2**
NORME EUROPÉENNE
EUROPÄISCHE NORM December 2007

ICS 13.320; 43.040.10

English version

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

Alcootests électroniques anti-démarrage -
Méthodes d'essai
et exigences de performance -
Partie 2: Instruments munis
d'une embouchure et effectuant la mesure
du 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

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Ref. No. EN 50436-2:2007 E

EN 50436-2

Alcohol interlocks - Test methods and performance requirements

Part 2: Instruments having a mouthpiece and measuring breath alcohol for general preventive use

**December 2007:
officially published**

Referenced in legislation (in F, FIN)

**Actually under revision in
Cenelec committee
(publication in 2013 expected)**

TECHNICAL REPORT

CLC/TR 50436-3

RAPPORT TECHNIQUE

July 2010

TECHNISCHER BERICHT

ICS 13.320; 43.040.10

English version

**Alcohol interlocks -
Test methods and performance requirements -
Part 3: Guidance for decision makers, purchasers and users**

Alcootests électroniques anti-démarrage -
Méthodes d'essai et exigences
de performance -
Partie 3: Lignes directrices
pour décideurs, acheteurs et utilisateurs

Alkohol-Interlocks -
Prüfverfahren und Anforderungen
an das Betriebsverhalten -
Teil 3: Leitfaden für Entscheider, Käufer
und Nutzer

This Technical Report was approved by CENELEC on 2010-05-04.

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EN 50436-3

Alcohol interlocks - Test methods and performance requirements

Part 3: Guidance for decision makers, purchasers and users

**July 2010:
officially published**

prEN 50436-6 **Alcohol interlocks - Test methods and** **performance requirements**

Part 6: Data security

The Netherlands:

- Legislation: „Protection Profile“ for alcohol interlocks
- Listed under „Common Criteria Recognition Arrangement“

June 2010:

- Proposal to CLC BTTF 116-2

June 2012:

- draft of an Adhoc Working Group

Summary:

Alcohol interlocks are a more and more coming into the focus of interest in Europe

The performance requirements are defined in the European Standards EN 50436

It is strongly recommended to reference in the national legislation / regulations to these European Standards as the requirement for the alcohol interlocks

**Thank you
for your attention !**

