



Interlock Safety Systems

Vehicle | Breathalyser | Driver | Safety | Compliance



Vehicle Interlock Safety Systems deliver advanced Interlock & Breathalyser technology providing individuals, fleet operators and management with safety compliance.

Applications: Commercial, Public Transport, Taxis, Buses, Coaches, Fleet organisations
Insurance and Safety 'Drink Drive' related initiatives.

The NEW standards of the EN 50436 series provide opportunities to enhance traffic safety.



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Vehicle Interlock Safety - Breathalyser Systems > Overview

- **COMPLIANT TO LATEST EUROPEAN TRANSPORT SAFETY STANDARDS**

- **Approved to EN 50436-1 & Annexes 2-3-4-6-7**
Specifies test methods and essential performance requirements for alcohol interlocks (and vehicles) and gives guidance for decision makers, purchasers, and users.
- **Retrofit** It shall be possible to fit or retrofit an alcohol interlock that complies with European Standards EN 50436-1 & Annexes 2-3-4-6-7
- **OEM fit** Motor vehicles that are fitted with original equipment alcohol interlocks complying with European Standards EN 50436-1 or later revisions thereof are deemed to meet the requirements of this Regulation.

- **Vehicle Interlock Breathalyser Systems**

- **Technology 'Customisable' Solutions for; Petrol, Diesel, Electric & Electric/Hybrid**
- **A3 - For Modern Electric Vehicles**
- **A4 – For Vehicles with Petrol/Diesel Engines (ignition starter relay)**

Technical specifications/standards Overview

- Data storage up to 60,000 events as required by the standards
- User Data App for Computer, Laptop or Mobile Phones
- Configurable Solutions for Data Access via 4G, SIM, Bluetooth, or USB cable
- Automatic 'Alert Messages' e.g for 'Failed test' sent immediately via APP & Phone [4G]
- Automatic Download of Device Data {History} - 'Time Specified' via APP & Phone [4G]
- Operating temperature for both systems -40°C to +85°C
- Calibration interval up to 12 Months
- Handset/Control unit – communication via cable
- Start time: 3min
- Restart time: 5min
- Bypass activation: long press of handset button {a safety standards requirement}
- Control unit ready for external camera and GPS
- E-Mark for both A3 & A4

- **Breathalyser Technology**

- Technology meets UK Home Office Type Approval and EN 50436 Standards
- Experience, Proven Accuracy, Reliability & Technology Used by UK Police & MOJ since 2008





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The NEW standards of the EN 50436 series provide opportunities to enhance traffic safety. The new standard brings standardisation and EN50436 specifies test methods and performance requirements for alcohol interlocks and for vehicles and guidance for vehicle manufacturers, purchasers, and users.

One big change is that all that all new motor vehicles as of 2024 and beyond shall be pre-installed and equipped to be ready to interface with Interlock Systems.

The diagram below explains the six parts to the NEW standard and their application

EN 50436-1

Instruments for Measurement of Breath Alcohol for drink-driving & Interlock/offender initiatives

EN 50436-2

Breath Test Instruments that deploy use of a mouthpiece for measuring Breath Alcohol {BrAC} Concentration
designed for general preventative use

EN 50436-3

Guidance for Authorities, decision makers, purchasers and users

EN 50436-4

Data Security

EN 50436-6

Connection & Digital interface between the interlock systems and the vehicles

EN 50436-7

Installation Documents

The requirements of the NEW standard lay down rules to ensure Interlock Systems can be widely deployed for every vehicle application and everyone intended use. This forms part of the new smart methodology and transparency in design to ensure integration within modern highly integrated vehicles.





For more details, please contact the MEDACX support team

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