



Dräger Interlock 7500

Alcohol Ignition Interlock Device

The Dräger Interlock 7500 is an alcohol ignition interlock device which prevents a person under the influence of alcohol from starting the vehicle. The Interlock 7500 has a quick start-up time. Additionally, the device can be equipped with a GPS and/or a mobile data transfer module, according to the specific customer requirements.

Dräger Interlock 7500



D-36151-2021-pi.indd

Benefits

Reliable prevention of driving under the influence of alcohol

An Interlock 7500 is an in-vehicle breathalyser, which can be used preventively in public transportation, freight transport and at workplace to reduce the risk of drink-driving. The Interlock 7500 is also used in many countries for legal measures, as part of the “drink-driving offender programs (DUI/DWI)”. In these countries, offenders who were caught with a blood alcohol level over a certain limit have to use an Interlock device in their cars. Reliable results, tamper-proof data recording and data management play a key role in these programs.

How the Dräger Interlock 7500 works

The Interlock 7500 consists of two components: handset and control box. In the handset the breath sample is analysed. The control box allows or prevents the start of the vehicle. Before starting the vehicle, the Interlock 7500 requests a breath test from the driver. If the device detects a measured value above the set alcohol limit, it prevents the vehicle from being started. The device helps to avoid driving under the influence of alcohol and thus alcohol-related accident risks.

Quick operational readiness

Particular features of the Interlock 7500 are the extremely short warm-up and its quick readiness for use. At temperatures of more than 0 °C it is ready for immediate use. At temperatures below 0 °C the alcohol ignition interlock device is still quickly ready for use. With an approved temperature range of -40 °C to 85 °C, it ensures that the device works reliably under all kinds of ambient conditions.

Easy operation

The design of the Dräger Interlock 7500 is appealing and ergonomic. As the mouthpiece is on the back of the handset, it is not easily recognised as an alcohol ignition interlock device. The hygienic mouthpieces for the Interlock 7500 are individually packaged and made from an industrially compostable material. The packaging foil is suitable for home composting. The intuitive menu is easily accessed via the clear colour display, making operation self-explanatory. Moreover, the device's coloured LEDs further facilitate the user's experience.

Safe data handling

The data log of the Interlock 7500 can save all relevant events such as date, time, submission or refusal to submit an alcohol test, measured alcohol concentration, vehicle starts and stops and any attempts to tamper with the interlock device. Downloaded data is available to authorised persons only. From creation to distribution of the data special encryption methods guarantee data protection.

Reliable measurement technology

The Interlock 7500 specifically measures alcohol. The measuring result is reliable and precise. Also, attempts to bypass or manipulate the device are reliably identified and stored in the system. The device is able to identify whether the alcohol detected in the breath sample is actual breath alcohol or only mouth alcohol.

Benefits

Proven Dräger technology

With more than 70 years of experience, Dräger is a world market leader in breath alcohol measurement. The Alcotest product family is used by police authorities in many countries for traffic control. The Interlock 7500 uses the proven sensor technology of the Alcotest. Alcohol ignition interlocks by Dräger have been successfully established for more than 30 years.

Digital vehicle integration

The Dräger Interlock 7500 comes with an optional digital CAN and LIN bus interface to minimise installation efforts. This interface is standardised across Europe (EN 50436-4) and is compatible with all respective vehicles.*

*For further information on which vehicles are compatible, please contact your vehicle dealer.

Details



Request to provide a breath sample



Measurement of breath alcohol concentration



Breath sample accepted: Starter is enabled



Start the engine

Accessories



D-13888-2017

Mouthpieces

The hygienic mouthpieces for the Interlock 7500 are individually packaged and made from an industrially compostable material. The packaging foil is suitable for home composting.



D-1250-2014

Holders

Different holders to mount the handset in the driver's compartment.



D-98751-2013

Dräger Interlock 7500 camera

The camera is fully integrated into the Interlock 7500 and documents the submitted breath samples with images.

Technical Data

Measuring principle	Electrochemical sensor
Ambient conditions for operation	Temperature -40 °C to 85 °C
Readiness for use	< 5 sec. (above 0 °C) < 60 sec. (at -20 °C) < 110 sec. (at -40 °C)
Display	Graphic colour display in handset with full text messages
Calibration interval	typically 12 months
Data logger	in the control box, for up to 200,000 events
Dimensions (H x W x D)	Handset approx. 138 mm x 61 mm x 36 mm Control box approx. 148 mm x 90 mm x 32 mm
Weight	Handset approx. 178 g Control box approx. 240 g
Power supply	12 V to 24 V
Switch relay for the starter relay line	< 16 A continuous, < 40 A peak, output relay may switch up to 48 V
Power consumption	< 2,5 A maximum, < 1 mA stand-by
Approvals	General German Operating Permission (Allgemeine Betriebserlaubnis Deutschland); EN 50436-1:2014, EN 50436-2:2014, EN 50436-6:2015, E1 mark, ECE Regulation No. 10, NHTSA:2013, AS 3547:2019.1
Data transfer	PC interface CAN / LIN according to EN 50436-4 (CAN 250 kbit/s und 500 kbit/s, J1939)