

# Dräger Interlock

A Safe Start





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### Alcohol on our roads

In excess of 1,000,000 drivers per year have their driver's licence revoked world wide because of driving under the influence of alcohol. In Germany for example, more than 70,000 road accidents involving people under the influence of alcohol are recorded annually. For more than 10,000 people in the European Union and for more than 15,000 people in the USA, the crash was fatal. Every collision that occurs due to irresponsible consumption of alcohol is one crash too many!

### What is the Dräger Interlock?

The Dräger Interlock is a breath-alcohol measuring instrument with a vehicle "immobilizer".

After taking a breath alcohol measurement, the Dräger Interlock prohibits a driver who has consumed alcohol from starting the engine. It can easily be installed into the vehicle.

By installing a Dräger Interlock, you can avoid accidents caused by alcohol consumption. Additionally, long-term changes in the drinking attitude may be an added benefit.



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**Properties of the Dräger Interlock:**

- Prevents the starting of the vehicle when alcohol is detected in the driver's breath
- Leads to immediate separation of alcohol intake and driving
- Prevents accidents while under the influence of alcohol
- Is resistant to tampering
- Offers the possibility for cyclic retests
- Records all events in data storage for later review
- Increases safety for drivers and passengers
- Improves the image of transport companies
- Supports long-term attitude changes towards overcoming alcohol problems



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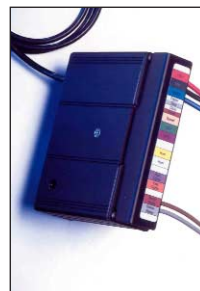
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**1.** Turn ignition on

**2.** Receive request to blow into Interlock

**3.** Measurement of breath alcohol concentration takes place

**4.** Accepted breath sample: motor starter is enabled

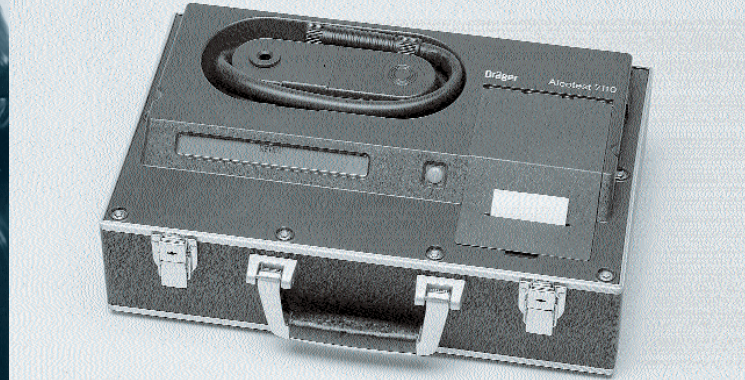
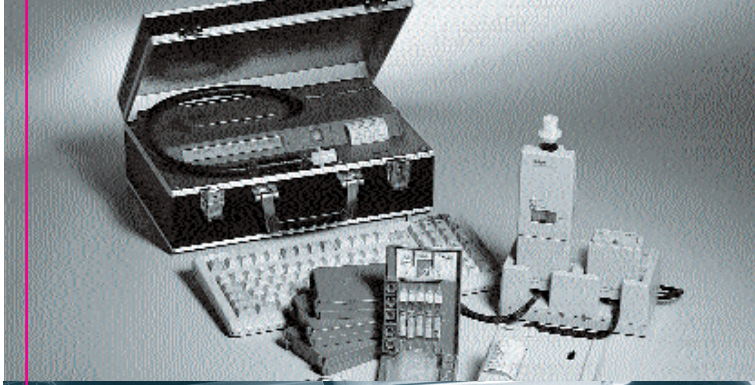
**5.** Start motor



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## Technical Data

Measuring principle	Electrochemical sensor
Ambient conditions for operation	-40 to 85 °C (-40 to 185 °F) 20 to 98 % RH 600 to 1100 hPa No influence of changes in altitude on the measurement result
Sensitivity drift	typically 1 % of measured value / month
Ready for test	< 20 sec. (above 20 °C / 68 °F) < 3 min. (at -40 °C/ -40 °F)
Display	Graphic LC-display in the handset with full text messages
Calibration interval	typically 6 months
Dimensions (H x W x D)	
Handset	approx. 150 x 70 x 40 mm
Control unit	approx. 115 x 105 x 40 mm
Weight	
Handset	approx. 175 g
Control unit	approx. 320 g
Voltage supply	12V Starter relais may switched with up to 48 V, 12 V subnet for instrument supply necessary
Relais for the lead starter relais	< 16 A, continuous < 40 A, peak
Current consumption	< 2 A, maximum < 20 mA, stand-by
Approvals	Radio interference (Directive 95/54/EC and ECE Regulation No.10)  General German Operating Permission (Allgemeine Betriebserlaubnis)



### **Breath alcohol measurement**

Dräger is the world market leader in breath alcohol detection and measurement. The Alcotest family of products is the most successful breath alcohol measuring instrument world wide.

The Alcotest tube with the sample bag is probably the oldest method of obtaining proof of alcohol consumption. Today most alcohol detection devices are electronic. They are used on all five continents for traffic safety by police authorities, for workplace alcohol testing, as well as aiding in the diagnosis of medical patients.

Dräger's long term experience and time proven measuring technique establishes the basis of the Dräger Interlock.

