Dräger Alcotest® 7510
Evidential Alcohol Measuring Device

This compact and robust handheld breath alcohol measuring device is especially designed for advanced screening applications. Ideal for use by police, commerce and industry as an alcohol screening device. The Alcotest® 7510 can in many countries and markets be used as an evidential device.

- **Large, illuminated display**
  - Clear and distinct display of text messages – even in difficult lighting situations like direct sunlight or darkness
  - Individually adjustable: additional color coding with LEDs to support the information displayed

- **Mouthpiece ejector**
  - Quick and easy removal of the standard mouthpieces after testing
  - The operator does not come in contact with the mouthpieces

- **IR module**
  - Infrared interface for easy data transfer to Dräger mobile printer or PC
  - The fixture on the charging cradle can be permanently attached with a PC via USB cable: the USB cable does not need to be removed

- **Quick and easy operation**
  - Measuring and navigation is easy with the proven three button operation

- **Sophisticated charging and storage receptacle**
  - Maximum flexibility in attaching and charging the device – on the wall, in vehicles or on tables

- **Robust, splash-proof housing**
  - Ergonomically shaped – suitable for right and left handers
  - Non-slip rubberized surface
Benefits

**Ergonomic design**

The Dräger Alcotest 7510 is a compact and robust handheld instrument which, thanks to its special ergonomic design, is suitable for right or left handed users. A non-slip rubber housing offers optimal grip.

**State-of-the-art technology**

The Alcotest 7510 uses the latest DrägerSensor technology and benefits from an improved sampling method. Depending on the device configuration, it can also detect residual mouth alcohol. A built-in heating element prevents condensation and ensures quick and accurate measurements even at low temperatures. The device is tamperproof and not sensitive to other substances.

**Easy to operate**

The device has a simple, three button operation. The user controls all measurements via a single push button. A quick and easy menu navigation is possible with two up and down keys. The device incorporates a transflective, high resolution, monochrome graphic display. The backlit display provides clear text messages ensuring legibility in bright sunlight as well as total darkness. Many languages are available. Three light emitting diodes (LEDs) in red, yellow and green support the information shown on the display.

**Hygienic and safe**

The device complies with high hygiene requirements. The position of the disposable mouthpiece and the molded hand grip automatically provide a safe, hygienic distance between the operator’s hand and the subject. The mouthpieces have a special spacer to avoid contact of the subject’s lips with the instrument. Designed for maximum hygiene, a special mouthpiece ejection system initiates quick and simple mouthpiece ejection.

**Comprehensive data management**

The Alcotest 7510 is characterized by a comprehensive data management and a wide range of configuration options. The device captures and stores a wealth of information. Using pick lists or free text, the unit can be customised to suit specific needs. The test result is saved with a test number with corresponding date and time.

**Low energy consumption**

The device is powered by alkaline or rechargeable NiMH batteries. It can also be supplied with Li-Ion batteries.

**High flexibility**

The Dräger Alcotest 7510 can be used immediately in any environment. Tests can be carried out at temperatures from -10 °C to +50 °C. The flexible data management, the high memory capacity as well as the option of wireless data transfer to the Dräger Mobile Printer or a computer, allow for easy adjustment
Benefits

to national and international specifications. Via the ambient pressure sensor, the device automatically compensates for the ambient barometric conditions when performing dry-gas tests. The GPS module recognizes the exact geographical location where a breath test is performed. More optional accessories like a stable packaging case and various mounting and charging options are offered.

Accessories

Mouthpieces (slide’n’click)

Mouthpieces in packs of 100, 250 and 1,000, with or without non-return valve

12-V charging cable

Car charger
Accessories

**Power supply**
Power pack (current source)

**Charging cradle**
Consisting of base, insert to receive the measuring instrument and wall mount

**PC-Connection cable with Mini-USB**
USB cable for data transfer

**IR module + holster**
Consisting of holster and IR module
Accessories

Holster Set
Consisting of holster, belt loop, and transparent covering flap

System case
With space to accommodate the Dräger Alcotest® 7510 instrument, the Dräger Mobile Printer, mouthpieces, batteries, paper rolls, charging cable, USB-Cable, keyboard etc.

Dräger Mobile Printer
The Dräger Mobile Printer prints breath alcohol and drug test measurement results directly on the spot.
Related Products

Dräger Alcotest® 6820
Keeping the roads safe and free of impaired drivers is an unpredictable and high stress job. Dräger designed the Alcotest® 6820 handheld breathalyser specifically for the needs of law enforcement officers. It’s easy to use and provides fast, reliable results in the toughest environments you face when every second matters.

Dräger Alcotest® 9510
The Dräger Alcotest® 9510 is an advanced breath alcohol measuring instrument for evidential applications. It is designed to comply with national and international requirements and regulations (OIML R 126). With dual sensor technology, intuitive color touch screen interface, and modern design the Alcotest® 9510 sets superior standards.

Dräger DrugTest® 5000
No pipetting, no drips, no timing: Collecting an oral fluid sample is quick and easy with the Dräger DrugTest® 5000. The collected sample can then be analysed immediately for accurate results on the spot.
# Technical Data

## Dräger Alcotest® 7510

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Principle of measurement</strong></td>
<td>Electrochemical DrägerSensor in 1/4&quot; technology; alcohol-specific</td>
</tr>
<tr>
<td><strong>Measurement range</strong></td>
<td>0 to 3.0 mg/L (if the limits of the measuring range are exceeded, a message is displayed)</td>
</tr>
<tr>
<td><strong>Sampling</strong></td>
<td>Standard Sampling: Automatic when the minimum volume is reached. Passive Sampling: Without mouthpiece or manual initiation of sampling is possible. The device can detect residual mouth alcohol during the delivery of the breath sample (if this option is activated).</td>
</tr>
<tr>
<td><strong>Ready for use</strong></td>
<td>After approx. 6 s after powering up (temperature-dependent)</td>
</tr>
<tr>
<td><strong>Display of measurement result</strong></td>
<td>After approx. 6 s (at 0 mg/L); after approx. 12 s (at 0.5 mg/L, room temperature)</td>
</tr>
<tr>
<td><strong>Operating temperature</strong></td>
<td>-10 to +50 °C (14 to 122 °F)</td>
</tr>
<tr>
<td><strong>Display</strong></td>
<td>LCD display with background illumination (128 x 160 pixels); 35 mm x 45 mm (1.38&quot; x 1.77&quot;)</td>
</tr>
<tr>
<td><strong>LED</strong></td>
<td>3 light emitting diodes (LEDs) in red, yellow and green to support display and warning messages</td>
</tr>
<tr>
<td><strong>Audible signal</strong></td>
<td>Different signal tones to support display messages and warnings</td>
</tr>
<tr>
<td><strong>Datalogger</strong></td>
<td>Storage of &gt; 5,000 tests with test numbers, date and time</td>
</tr>
<tr>
<td><strong>Power supply</strong></td>
<td>Four AA alkaline or NiMH batteries, charge status is displayed. Approx. 1,500 breath tests can be performed with one set of batteries. Optional: Lithium-Ion batteries can perform approx. 50% more measurements than with NiMH rechargeable batteries.</td>
</tr>
<tr>
<td><strong>Calibration</strong></td>
<td>Wet gas or dry gas calibration. Optional: with absolute pressure sensor for the compensation of atmospheric pressure during dry gas calibration</td>
</tr>
<tr>
<td><strong>Dimensions (H x W x D)</strong></td>
<td>Approx. 183 mm x 87 mm x 44 mm / 7.2&quot; x 3.4&quot; x 1.7&quot; with use of alkaline or NiMH batteries; Approx. 183 mm x 87 mm x 49 mm / 7.2&quot; x 3.4&quot; x 1.9&quot; with use of Lithium-Ion batteries</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>Approx. 430 g (0.96 lbs)</td>
</tr>
<tr>
<td><strong>Instrument configuration</strong></td>
<td>Direct menu-guided configuration of instrument settings (PIN required). Additional configuration via PC software</td>
</tr>
<tr>
<td><strong>Vibration and shock</strong></td>
<td>Conforms to EN 60068-2-6, EN 60068-2-29</td>
</tr>
<tr>
<td><strong>Data interfaces</strong></td>
<td>IR (via IR Module) and USB for connection to a PC; IR connection to the Dräger Mobile Printer for documentation and data entry (when a keyboard is attached to the Dräger Mobile Printer)</td>
</tr>
</tbody>
</table>
## Ordering Information

<table>
<thead>
<tr>
<th><strong>Dräger Alcotest® 7510</strong></th>
<th><strong>Dräger Alcotest® 7510, modular system</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Consisting of: measuring device 7510 (mouthpiece positioning from the right), case, 3 mouthpieces, USB-cable and Product-CD</td>
<td>Configured to customer’s requirements and is available with a selection of modules (e.g. GPS, Li-ion batteries and absolute pressure sensor)</td>
</tr>
<tr>
<td><strong>Order-No.</strong></td>
<td><strong>83 19 760</strong></td>
</tr>
</tbody>
</table>

### Accessories

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Order-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mouthpieces “Standard” (slide’n’click)</td>
<td>(100 pieces) each individually packed</td>
<td>68 10 690</td>
</tr>
<tr>
<td>Mouthpieces “Standard” (slide’n’click) with non-return valve</td>
<td>(100 pieces), each individually packed</td>
<td>68 11 055</td>
</tr>
<tr>
<td>Power Supply Unit (constant current) charging NiMH batteries (18 900 92) inside of the Dräger Alcotest® 7510</td>
<td>Car charger 600 mA charging NiMH batteries (18 900 92) inside of the Dräger Alcotest® 7510 using a direct connection to the 12 V DC supply of a motor vehicle.</td>
<td>83 16 991</td>
</tr>
<tr>
<td>Dräger Alcotest® 7510 Holster Set</td>
<td>Consisting of: holster, belt clip, protective cover with hook-and-loop fastener (e.g. to attach inside vehicles). The device can still be used while in the holster.</td>
<td>83 19 761</td>
</tr>
<tr>
<td>Dräger Alcotest® 7510 Desktop Charging Cradle</td>
<td>Consisting of: charging cradle base unit, charging cradle adapter and wall bracket. To charge the Dräger Alcotest® 7510 with power supply unit (83 16 991) and car charger 600 mA (83 20 252).</td>
<td>83 19 762</td>
</tr>
<tr>
<td>Dräger Alcotest® 7510 IR-Module</td>
<td>Infrared Interface Adapter for use with the Dräger Alcotest® 7510 Holster Set to enable data transfer. The adapter is connected to a PC using a USB-cable, thus minimising the need to frequently connect and disconnect the cable from the instrument.</td>
<td>83 19 763</td>
</tr>
<tr>
<td>Dräger Alcotest® 7510 IR-Module and Holster Set</td>
<td>Consisting of: Dräger Alcotest® 7510 Holster and IR-Module (83 19 763). Use in conjunction with 83 19 765 for mobile use. Use in conjunction with 83 19 762 for stationary use.</td>
<td>83 19 764</td>
</tr>
<tr>
<td>Dräger Alcotest® 7510 Holster Mobile Upgrade</td>
<td>Consisting of: belt clip, protective cover and hook-and-loop fastener Can be seen as an upgrade to the Dräger Alcotest® 7510 IR-Module (83 19 764) or as a spare part kit to the Dräger Alcotest® 7510 Holster Set (83 19 761)</td>
<td>83 19 765</td>
</tr>
<tr>
<td>Dräger Alcotest® 7510 System Case</td>
<td>With space to accommodate the Dräger Alcotest® 7510 instrument, the Dräger Mobile Printer, mouthpieces, batteries, paper rolls, charging cable, USB-Cable, keyboard etc.</td>
<td>83 23 890</td>
</tr>
<tr>
<td>Dräger Mobile Printer</td>
<td></td>
<td>83 19 310</td>
</tr>
<tr>
<td>Printer paper (5 rolls), 7 year shelf life</td>
<td></td>
<td>83 19 002</td>
</tr>
<tr>
<td>Printer paper (5 rolls), 25 year shelf life</td>
<td></td>
<td>83 18 461</td>
</tr>
</tbody>
</table>
## Ordering Information

<table>
<thead>
<tr>
<th>Keyboard Type</th>
<th>Order Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;Compact&quot; Keyboard (QWERTY), English, for PS/2</td>
<td>83 15 497</td>
</tr>
<tr>
<td>&quot;Compact&quot; Keyboard (QWERTZ), German, for PS/2</td>
<td>83 15 095</td>
</tr>
<tr>
<td>&quot;Compact&quot; Keyboard (AZERTY), French, for PS/2</td>
<td>83 15 142</td>
</tr>
<tr>
<td>PC communication cable with Mini-USB for use with the Dräger Mobile Printer</td>
<td>83 18 657</td>
</tr>
</tbody>
</table>
Notes

Not all products, features, or services are for sale in all countries. Mentioned Trademarks are only registered in certain countries and not necessarily in the country in which this material is released. Go to www.draeger.com/trademarks to find the current status.