Dräger Alcotest 7510

The Dräger Alcotest 7510 is a compact and robust handheld breath alcohol measuring instrument, especially designed for advanced screening applications. Ideal for use by police as well as in commerce and industry as an alcohol screening device, it can also be used for evidential testing purposes, subject to relevant local and market sector approvals.



DRÄGER ALCOTEST 7510

Hygienic, easy to use and providing fast, accurate and reliable results in an easy to read format, it can be easily adapted to meet different international regulations and guidelines. Flexible data management featuring a large data memory and easy data transfer to a mobile printer or PC, this intuitive system can also be used with GPS and Li-Ion battery technology.

Ergonomic design

The device has a simple, three button operation and is designed for ambidextrous, single-handed use. Housed in a non-slip rubber mantle complete with wrist strap for added security, it features a large, high resolution, monochrome graphic display and multi-lingual text. Designed with different environments in mind, it also incorporates an innovative transflective display to ensure that it can be read easily in bright sunlight.

Advanced technology

Using the latest Dräger sensor technology, the Dräger Alcotest 7510 ensures fast, precise measurements. A built-in heating element controls the effects of condensation and ensures, by regulating the temperature of the fuel cell, quick measurements even at low temperatures. Automatically excluding cross sensitivity to other substances, and eliminating the possibility of breath sample manipulation, it provides an alcohol specific result time after time. A modified sampling unit, driven by a Piezo motor, enables the unit to signal if alcohol is present in the mouth and, in that event, the test should be retaken.

Easy to use

With minimal waiting time at start up and automatic sampling and calibration processes, this battery powered instrument is fast and easy to use. All measurements are controlled via a single push button, with two up and down keys making menu navigation both quick and simple. The backlit display provides clear, plain text messages even in poor light conditions and three light emitting diodes (LEDs) in red, yellow or green support the information shown on the display.



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Hygienic and safe
The position of the disposable mouthpiece and the moulded hand grip automatically provide a safe, hygienic distance between you and the subject. The mouthpieces incorporate a special spacer to prevent the subject's lips from coming into contact with either the instrument or you. Designed for maximum hygiene, a special mouthpiece ejection system initiates quick and simple mouthpiece ejection, without you needing to come into contact with it, and also prevents accidental ejection whilst in use. Where, for instance, you suspect that alcohol may be present in a vehicle, or where the subject is incapable or unwilling to take the test, a passive sampling measurement can also be selected.

Data management
Offering comprehensive data management, the Dräger Alcotest 7510 is able to capture and store a wealth of information. Using pick lists or free text, the unit can be customised to suit specific needs. Amongst others, for example, calibration intervals, the vehicle type and registration, the name of the operator and the location and reason for measurement can all be logged – the options are endless. Together with these entries, the test result, a unique reference number and the time and date can all be stored.

Powerful ally
Offered with either alkali or rechargeable batteries, the Dräger Alcotest 7510 can also be supplied with the latest, high capacity Li-Ion battery technology for multiple, repetitive applications such as those required at check points. For maximum flexibility, a wide range of charging and charging/downloading cradles are available for wall, vehicle or desk mounting applications.

True flexibility
Ready for immediate use in any location, the Dräger Alcotest 7510 is suitable for use in temperatures from -10 °C to +50 °C and, when fitted with an absolute pressure sensor, the device will automatically compensate for atmospheric pressure during dry gas calibration. Test results can be sent wirelessly to the Dräger Mobile Printer or, for fast, secure downloads, the device can be connected to a PC. Other optional accessories include a GPS module to allow positional coordinates to be recorded and used for future statistical analysis, together with rugged carry cases, belt bags and storage racks for multiple devices.



ORDER INFORMATION

Dräger Alcotest 7510	Order-No.
Dräger Alcotest 7510 Consisting of: measuring device 7510 (mouthpiece positioning from the right), case, 3 mouthpieces, USB-cable and Product-CD	83 19 760
Dräger Alcotest 7510, modular system Configured to customer's requirements and is available with a selection of modules (e.g. GPS, Li-ion batteries and absolute pressure sensor)	83 19 700

Accessories	
Mouthpieces “Standard” (slide’n’click) (100 pieces) each individually packed	68 10 690
Mouthpieces “Standard” (slide’n’click) with non-return valve (100 pieces), each individually packed	68 11 055
Power Supply Unit (constant current) charging NiMH batteries (18 900 92) inside of the Dräger Alcotest 7510	83 16 991
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.	83 20 252
Dräger Alcotest 7510 Holster Set Consisting of: holster, belt clip, protective cover with velcro fastenings (e.g. to attach inside vehicles). The device can still be used whilst in the holster.	83 19 761
Dräger Alcotest 7510 Desktop Charging Cradle 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).	83 19 762
Dräger Alcotest 7510 IR-Module 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.	83 19 763
Dräger Alcotest 7510 IR-Module and Holster Set 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.	83 19 764
Dräger Alcotest 7510 Holster Mobile Upgrade Consisting of: belt clip, protective cover and velcro fastenings. 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)	83 19 765
Dräger Alcotest 7510 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.	83 20 251
Dräger Mobile Printer	83 19 310
Printer paper (5 rolls), 7 year shelf life	83 19 002
Printer paper (5 rolls), 25 year shelf life	83 18 461
"Compact" Keyboard (QWERTY), English, for PS/2	83 15 497
"Compact" Keyboard (QWERTZ), German, for PS/2	83 15 095
"Compact" Keyboard (AZERTY), French, for PS/2	83 15 142
PC communication cable with Mini-USB for use with the Dräger Mobile Printer	83 18 657

ACCESSORIES

Dräger Alcotest 7510 Holster Set



ST-11898-2008

Dräger Alcotest 7510 Desktop Charging Cradle



ST-11902-2008

Dräger Mobile Printer



ST-8390-2006

TECHNICAL DATA

Dräger Alcotest 7510	
Principle of measurement	Electrochemical DrägerSensor in ¼" technology; alcohol-specific
Measurement range	0 to 3.0 mg/L (if measurement range limit it exceeded a message is displayed).
Sampling	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).
Ready for use	After approximatelly 6 s of switching on (temperature-dependent)
Display of measurement result	After approximatelly 3 s (at 0 mg/L); after approximatelly 10 s (at 0.5 mg/L, room temperature)
Operating temperature (temperature range is monitored)	-10 to +50 °C (14 to 122 °F)
Display	Graphic backlit LCD display (128 x 169 pixels); 35 mm x 45 mm (1.38" x 1.77")
LED	3 light emitting diodes (LEDs) in red, yellow and green to support display and warning messages
Audible signal	Different signal tones to support display messages and warnings
Datalogger	Storage of > 5,000 tests with test numbers, date and time
Power supply	Four AA alkaline or NiMH batteries, charge status is displayed. Approximately 1,500 breath tests can be performed with one set of batteries. Optional: Lithium-Ion batteries can perform approximatelly 50% more measurements than with NiMH rechargeable batteries.
Calibration	Wet gas or dry gas calibration. Optional: with absolute pressure sensor for the compensation of atmospheric pressure during dry gas calibration
Size	Approximatelly 185 mm x 90 mm x 45 mm (7.3" x 3.5" x 1.77")
Weight (including four NiMH batteries)	Approximatelly 430g (0.96 lbs)
Instrument configuration	Direct menu-guided configuration of instrument settings (PIN required). Additional configuration via PC software
Vibration and shock	Conforms to EN 60068-2-6, EN 60068-2-29
CE marking	Directive 89/336/EC (electromagnetic compatibility) RoHs Compliance
Data interfaces	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)

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