

Documentation of breath alcohol measurement results:

Dräger Alcotest 6810 and Dräger Mobile Printer



Together with the breath-alcohol measuring instrument Dräger Alcotest 6810 the new developed Dräger Mobile Printer delivers a complete system for measuring and logging of breath-alcohol analyses. A wireless data transfer allows professional users a fast documentation of the precise measurement results and all relevant information. The manageable size of both instruments makes quick breath-alcohol measurements and printout in mobile and stationary application possible.

FG DIAGNOSTICS

Breath-alcohol measurement with the Dräger Alcotest 6810

**Safe and easy to use**

Automatic sampling and calibration processes make the instrument easy to use. All measurement functions are controlled via a single key, while menu navigation is by two menu keys. The special way the mouthpieces are designed means they can be fitted quickly and securely even in poor light conditions. Thanks to its compact dimensions, the Dräger Alcotest 6810 even fits into a short pocket. The ergonomic design makes the instrument equally easy to use for right and left-handed people.

Rapid ready for use

The very latest in electronics technology ensures that the instrument is ready for use in some seconds at all.

Quick and precise analysis

The 1/4"-DrägerSensor with its optimized gas dynamics measures specifically alcohol. Even at high concentrations direct gas paths, fast pneumatic components and short reaction times of the sensor ensure the measurement result will be displayed quickly. The Dräger Alcotest 6810 also allows the use of NiMH batteries which can be charged inside the instrument.

Low energy consumption

More than 1,500 breath alcohol tests can be conducted on just two mignon batteries (AA size).

"Slide'n'click" mouthpiece

The shape of the mouthpiece means you will intuitively fit it correctly. An air outlet which cannot be obstructed prevents any manipulation when the breath sample is given. The individually packaged mouthpieces can be attached to the instrument easily and hygienically.

Optimized instrument interaction

Interaction between operator and instrument takes place via the backlit display with its easily comprehensible plain text messages. A light emitting diode with different colours and audible signals support the display.

Datalogger

The last 250 measurement results with their respective test numbers, date and time are stored in the datalogger. Individual results can either be called up from the log by pressing the menu keys or transferred to a PC.

"Slide'n'click mouthpiece:
For intuitive, easy and hygienic attachment

Backlit display:
Delivers clear and easy to understand text messages



Optical interface:
For a wireless communication with the Dräger Mobile Printer

Menu keys:
For intuitive operation

OK-Button:
All measuring functions are to be operated by solely one button

Dräger Alcotest 6810

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Full documentation of the test results with the Dräger Mobile Printer



Documentation

By using the Dräger Mobile Printer the results of a breath-alcohol analysis with the accordant data of the test subject can be printed as a protocol. Consequently the printer paired with the Dräger Alcotest 6810 delivers a hand-held system for breath-alcohol measurements which allows full documentation of the result. But still the Dräger Alcotest 6810 can be used as an usual screening device, of course.

User-friendliness

For both devices the same types of batteries can be used. Charging of NiMH batteries inside the devices is possible with the same power supply. Additionally the Dräger Mobile Printer is a thermal printer, it needs no toner or ink to operate. It's low maintenance costs, the long lifetime of the thermal head and the easy paper change are very user-friendly.

Wireless data transfer

The optical interface of the Dräger Alcotest 6810 and the Dräger Mobile Printer allow a wireless data transfer from the Alcotest device to the printer. This kind of transmission enables an easy, fast and tamperproof record of all data of the test in mobile as well as in stationary application. No confusing wiring is necessary, no problems with bad contacts of connection cables can occur.

Quickness and quality

The breath-alcohol measurement result is transferred to the Dräger Mobile Printer in no time at all and the thermal printer delivers a fast, quiet and high-class document printout.

Test protocol:

Documentation of all relevant data in different languages possible



LED:

Three coloured LED and a audible cue indicate the status

ON/OFF Button:

For switching the device on, paper feed and test printout

Optical interface:

Interface for a wireless and fast data reception

Opening Button:

Opens the paper lid for a fast and easy change of the paper roll



IR port:

For interaction with other devices

Charging socket:

Charging of the NiMH batteries inside the device is possible

RS 232 interface:

Connection of a network adapter is possible

USB interface:

Interface for a fast and easy connection to a PC

PS2 interface:

Transmission of keyboard-/card reader data



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TECHNICAL DATA: Dräger Alcotest 6810

Principle of measurement	Electrochemical DrägerSensor in 1/4" technology; alcohol-specific
Measurement range	0 to 2.5 mg/L; if measurement range limit is exceeded, a message is displayed
Sampling	Standard: automatic sampling when minimum volume is reached Passive sampling without mouthpiece or manual initiation of sampling possible
Ready for use	Approx. 6 s after switching on
Display of measurement result	After approx. 3 s (at 0 mg/L); after approx. 10 s (at 0.5 mg/L, room temperature)
Operating temperature	-5 to +50 °C / 23 to 122 °F
Display	Graphic backlit LCD display; 41 mm x 24 mm / 1.6" x 0.9" (128 x 64 pixels)
LED	3-colour, to support display and warning messages/optical interface for printer
Audible signal	Different signal tones to support display messages and warnings
Datalogger	Storage of last 250 tests with test numbers, date and time
Power Supply	Two AA alkaline or NiMH batteries. Charge status on the display. Approx. 1,500 tests can be performed on one set of alkaline batteries. Internal charging of NiMH batteries possible.
Calibration	Wet gas or dry gas calibration
Size, weight	Approx. 140 mm x 70 mm x 30 mm / 5.5" x 2.8" x 1.2", approx. 195 g / 0.5 lbs, incl. batteries
Instrument configuration	Direct menu-guided configuration of instrument settings (PIN required) No additional PC software needed
Vibration and shock	Conforms to EN 60068-2-6, EN 60068-2-29
CE marking	Directive 89/336/EC (electromagnetic compatibility)
Data interfaces	RS 232 for connection to a PC; optical interface to the Alcotest-Printer

TECHNICAL DATA: Dräger Mobile Printer

Environmental conditions	Dimensions	110 mm x 60 mm x 205 mm (W x H x D)	
For operation:	Weight	about 400g	
Temperature	-5 to +45°C, max. 2°C/min	Power Supply	
Humidity	100%, not condensing	Batteries	4 x 1.5V Type Alkaline (Mignon, LR6, AA) or 4 x 1.2V Type NiMH (Mignon, LR6, AA)
Atmos. pressure	600 to 1050 mbar	Components	
For storage:	Temperature	Printer	Thermal printer
Temperature	-20 to +50°C, short time (4h) -40 to +70°C	Printer paper	Thermal paper, width 58 mm
Humidity	100%, not condensing	CE marking	Directive 89/336/EC (electromagnetic compatibility)
Atmos. pressure	600 to 1050 mbar		

ORDER INFORMATION

Dräger Alcotest 6810 incl. 3 mouthpieces, 2 batteries, wrist strap, plastic case)	83 18 570	Alkaline battery (1 piece)	13 35 804
Dräger Alcotest mouthpieces/slide'n'click (100pcs.)	68 10 690	NiMH rechargeable battery (1 piece)	18 90 092
Dräger Mobile Printer	83 19 310	Power supply for charging NiMH batteries inside of both devices	83 16 991
Printer paper (5 rolls) storage durability 7 years	83 19 002		
Long time printer paper, storage durability 25 years	83 18 461		