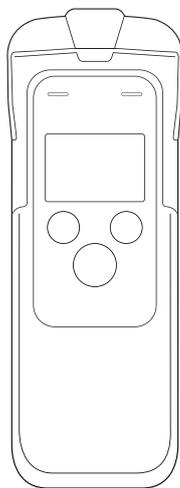


Dräger Alcotest 6000

— Instructions for use



Download IFU at
https://www.draeger.com/en-us_ca/Safety/Alcohol-And-Drug-Testing/Technical-Support-Alcotest-6000-LE

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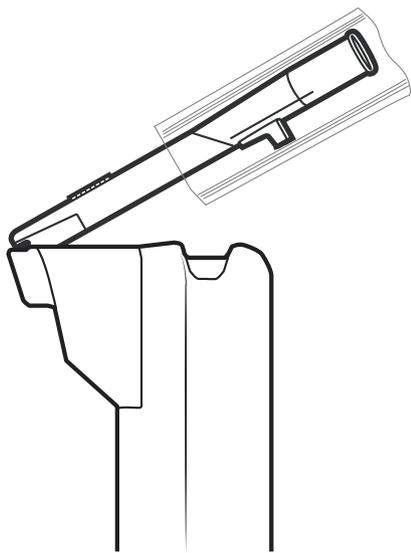
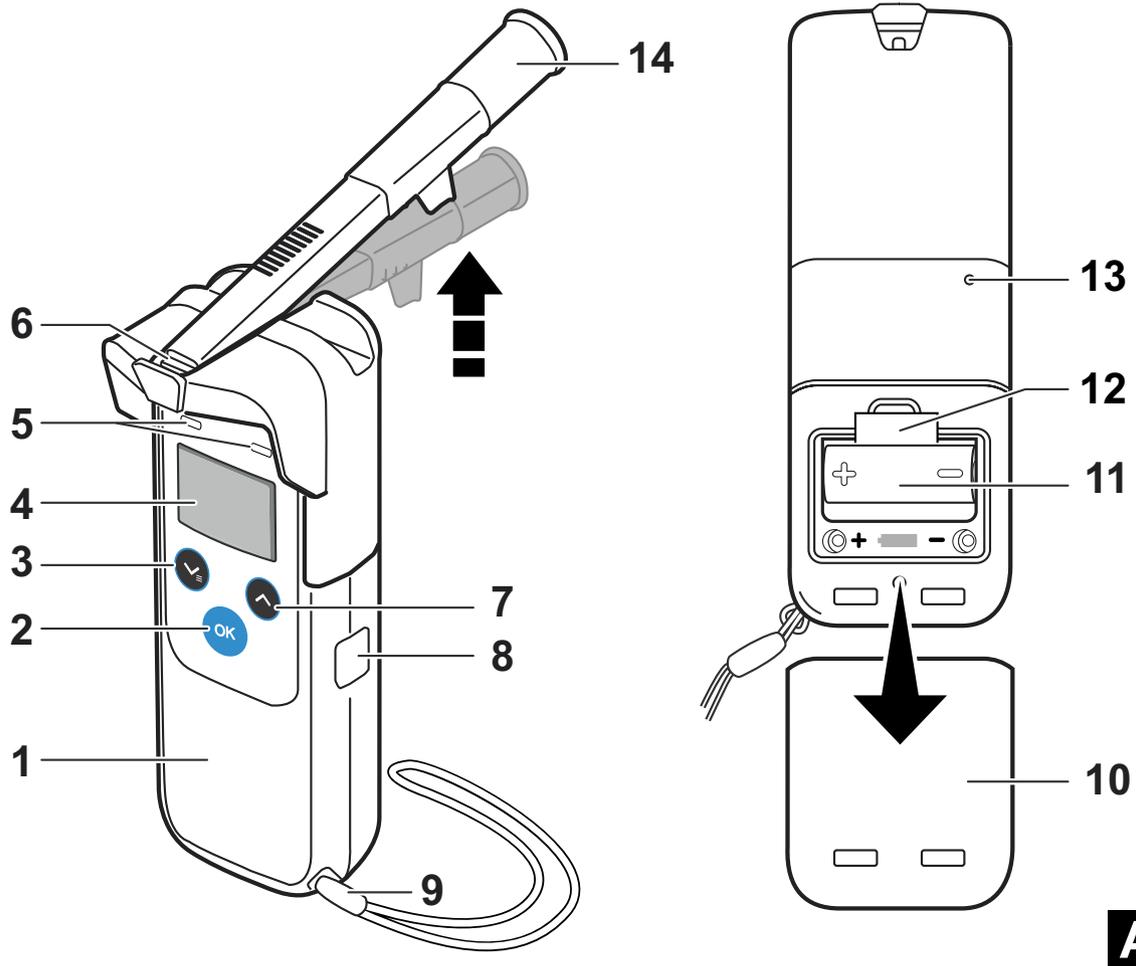
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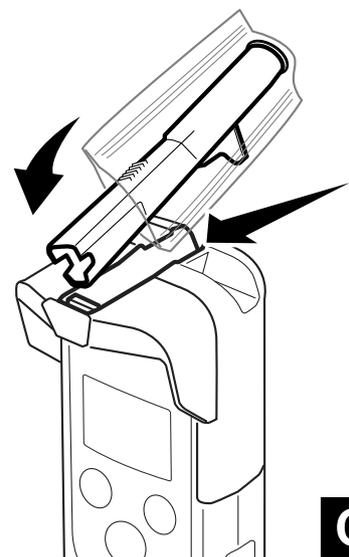
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1 Safety-related information

- Before using this product, carefully read these instructions for use and those of the associated products.
- Strictly follow the instructions for use. The user must fully understand and strictly observe the instructions. Use the product only for the purposes specified in the intended use section of this document.
- Do not dispose of the instructions for use. Ensure that they are stored and used appropriately by the user.
- Only trained and competent users are permitted to use this product.
- Do not use a faulty or incomplete product. Do not modify the product.
- Notify Dräger in the event of any component fault or failure.
- Comply with all local and national rules and regulations associated with this product.
- Only trained and competent personnel are permitted to inspect, repair and service the product. Dräger recommend a Dräger service contract for all maintenance activities and that all repairs are carried out by Dräger.
- Use only genuine Dräger spare parts and accessories. Otherwise, the proper functioning of the product may be impaired.
- Only use chargers, power packs, batteries, or rechargeable batteries that Dräger has approved for this product.

2 Conventions in this document

2.1 Meaning of the warnings

The following warnings are used in this document to alert the user to possible hazards. A definition of the meaning of each warning is as follows:

Warning symbols	Signal word	Classification of warning
	WARNING	Indicates a potentially hazardous situation. If not avoided, it could result in death or serious injury.
	CAUTION	Indicates a potentially hazardous situation. If not avoided, it could result in physical injury. It may also be used to alert against unsafe practices.
	NOTICE	Indicates a potentially hazardous situation. If not avoided, it could result in damage to the product or environment.

2.2 Typographical conventions

Text	Text in bold identifies labels on the device and text on the display.
▶	This triangle in warnings identifies the options available for avoiding the hazard.
>	The greater-than symbol identifies a navigation path in a menu.
	This symbol indicates information that may make the use of this product easier.

3 Description

Devices are configured according to the customer's specifications prior to delivery. Any features the customer wishes to make mandatory will be locked, preventing changes by the user. However they can be changed by Dräger if needed or requested by the customer.

3.1 Product overview

See fold-out page

1	Breath alcohol testing device
2	 button (turning the device on/off; confirming entries)
3	 button (calling up the menu; setting a value)
4	Display
5	LEDs
6	Mouthpiece receptacle
7	 button (setting a value)
8	USB port (not for charging the device, for service personnel only)
9	Wrist strap
10	Battery compartment cover
11	Battery
12	Strap for changing the battery
13	Loudspeaker
14	Mouthpiece

3.2 Intended use

The Dräger Alcotest 6000¹⁾ breath alcohol testing device is used to measure the breath alcohol concentration in a person's breath. This measurement is used to determine a person's blood alcohol level. Therapeutic measures should not be taken on the basis of the measurement.

1) Alcotest is a registered trademark of Dräger.

4 Use

4.1 Prerequisites for use

WARNING

Small parts of the device may come loose and be swallowed.

- ▶ The device is not intended for children under the age of 3.
-

The device is adjusted in the factory before delivery. If the adjustment date is more than 12 months ago, then the device should be adjusted, e.g. by DrägerService or trained technician.

- After the last alcohol consumption, wait for approx. 15 minutes.
- The wait time cannot be shortened by rinsing the mouth with water or a non-alcoholic drink.
- Residual mouth alcohol or aromatic drinks (e.g. fruit juice), alcoholic mouth sprays and medicines can falsify the measurement.
- Burping and vomiting can falsify the measurement result.

4.1.1 Before sampling

The test person must breathe regularly and calmly before sampling. The test person must be capable of providing the minimum breath volume required for sampling.

4.1.2 Attaching the wrist strap

Use the wrist strap to secure the device to your wrist.

1. Feed the fastening lug of the wrist strap through the eye on the device.
2. Pull the top part of the wrist strap through the fastening lug.

4.1.3 Preparing for use

1. Make sure a sufficiently charged battery has been correctly inserted.
2. Make sure a clean mouthpiece has been attached.
3. Make sure the device is securely held by using the wrist strap correctly.

4.1.4 Turning on the device

1. Press and hold the  button for approx. 1 second.
2. When the device is switched on, both the days until the next calibration and the device temperature are displayed.

4.1.5 Turning off the device

- Press and hold the  button for approx. 3 seconds.

 The device will turn itself off 4 minutes after last being operated.

4.2 Taking an automatic breath sample

i Use a new mouthpiece for every test person.

i Do not apply high concentrations of breath alcohol to the sensor, e.g. by rinsing the mouth with high-proof alcohol shortly before taking the measurement. Doing so would reduce the life span of the sensor.

i It is not possible to take a manual or passive sampling by pressing any button. The device only allows to perform automatic breath samples by blowing into the mouthpiece.

i The device displays a numeric “mg%” result within a specific range, a “warn/caution/alert result” within a subsequent range, and a “fail result” once the warn/caution/alert range has been exceeded.

1. Remove the mouthpiece (order no. 68 10 690 “Standard”) from the packaging. For hygiene reasons, leave the mouth contact area protected by the packaging until the mouthpiece is firmly fixed on the device.
2. Place the mouthpiece in the mouthpiece receptacle at an angle, then press it into the mouthpiece receptacle (see fold-out page, figures B, C).
The ribbed marking (contact surface) of the mouthpiece points upwards.
⇒ The mouthpiece audibly clicks into place.
3. Completely remove the packaging.
4. Press and hold the  button for approx. 1 second until the startup screen appears.
An air blank is performed. Approx. 4 seconds later, the display shows the following:
 - **READY**
⇒ The device is ready to perform a measurement.
5. Blow evenly and without interruption into the mouthpiece. A progress bar is displayed. An adequate breath flow is signalled by a continuous tone sounding. The continuous tone will stop with an audible click once an acceptable breath sample has been provided.
After a few seconds, the measurement result is displayed with date and time. The result will be displayed for 15 seconds, then the device will automatically shut off.
6. To carry out another measurement briefly press the  button.
Once the sensor’s recovery time has elapsed (see “Technical data”, page 13), **READY** is shown.

4.3 Removing the mouthpiece

- Push the mouthpiece at the mounting spacer up and out of the mouthpiece receptacle and dispose of it (see fold-out page, figure A).

4.4 Menu

To access the menu:

- Press the  button.

To navigate to the menu or to configure the settings:

1. Press the  or  button.
2. Press the  button to confirm the function/input chosen.

To exit the menu:

- Choose the menu item **Back** in the sub-menus.
- Choose **Measuring** in the main menu.

4.5 Menu items

4.5.1 Measurement results

Shows the last result with measurement unit, date and time, as well as sample number.

4.5.2 Infoscreen

Shows the part number and the serial number of the device, as well as the serial number of the EC sensor.

4.5.3 Next service

Displays the time until next accuracy check (calibration check) and next annual maintenance.

4.5.4 Date and time (available in PIN1)

Sets the date and time.

1. Change the digits using the  or  button.
2. Confirm with the  button.

4.5.5 Contrast

Adjusts the contrast.

1. Change the contrast setting using the  or  button.
2. Confirm with the  button.

4.5.6 Loudspeaker

Adjusts the volume.

1. Set the volume using the  or  button.
2. Confirm with the  button.

4.5.7 Language

Sets the language.

1. Select the language using the  or  button.
2. Confirm with the  button.

4.5.8 Measurement unit (available in PIN1)

Sets the measurement unit.

1. Select the measurement unit using the  or  button.
2. Confirm with the  button.

4.5.9 Software version

Displays the version number and part number of the software.

4.5.10 Signing in

The device is not password protected for the operator; however a password will be required for calibrator or service personnel.

1. Enter the four-digit code to open the service menu.

4.5.11 Turning off

Turns off the device.

 The device will turn itself off 4 minutes after last being operated.

1. Briefly press the .
- ✓ The device turns off.

5 Troubleshooting

In the event of a device malfunction, an error message will be shown. The number which appears underneath the message is used for service functions. If the malfunction does not disappear after turning the device on and off several times, contact DrägerService.

Malfunction/ Error	Cause	Remedy
Device cannot be turned on.	The battery is depleted.	Change the battery.
Volume too small/sample invalid	The test person is blowing unevenly or not strongly enough.	Blow into the funnel with more force and without interruption.
Device outside temperature range	The device is too hot or too cold.	The device will auto shut-off in 15 seconds. Allow the device to cool down or warm up and restart the device.

Malfunction/ Error	Cause	Remedy
↑↑↑ (measuring range exceeded)	The measuring range has been exceeded. Residual mouth alcohol can lead to incorrect measured values.	At least 15 minutes wait time must have passed since alcohol was last consumed through the mouth. To repeat, press the  button.
Sample interruption	Irregular exhalation, abrupt ending or inhalation	Repeat the breath sample by pressing the  button
Error number	Device error	Turn the device off and then back on. If the error persists, contact DrägerService or your retailer.

6 Maintenance

6.1 Maintenance and annual service

Dräger recommends that the device is verified for calibration at a minimum 12 months. Calibration, calibration check and maintenance should only be carried out by authorized persons.

The calibration should be performed with wet bath alcohol standard.

The calibration check should be performed by either wet bath or dry gas alcohol standards.

Dräger recommends that users adhere to the requirements of the Alcohol Testing Committee (ATC) as well as their provincial recommendations. Dräger can assist with creating the required configuration.

The calibration can be done via the PIN protected menu without the use of any accessory equipment.

Calibration certificates: <https://www.draeger.com/productioncertificates>

6.2 Changing the battery

The device shows the battery charge level indicator on the display. An almost empty battery charge level indicator displays the message **Empty battery** and the device switches off again.

1. Turn off the device.
2. Push off the battery cover.
3. Replace the battery (battery type: 3 V CR123A; order no.: 45 43 808). Ensure that the polarity is correct when doing so. For the device safety, the device is equipped with a polarity protection.
4. Reattach the battery cover.
5. Check whether the time has been set correctly.

 If changing the battery takes more than 5 minutes, the time needs to be reset. Measurements cannot be performed if the time has not been set.

6.3 Cleaning

Clean the device using an ethanol-based cleaning agent.

To clean the device:

1. Turn off the device.
2. Remove the mouthpiece from the device.
3. Wipe the device using a disposable cloth moistened with cleaning agent. Do not apply the cleaning agent directly to the device.

 Make sure that no liquid enters the metal piece of the mouthpiece receptacle at the top of the device.

4. Carry out a passive sampling to ensure there is no residual ethanol inside the device and that the result displayed is **NO ALCOHOL**.
5. If **ALCOHOL** continues to be shown, repeat the passive sampling after a short break (10-15 minutes) until **NO ALCOHOL** is displayed.
6. If **ALCOHOL** continues to be shown, store the device for up to 24 hours to allow the cleaning agent to evaporate. Repeat the passive sampling after some time.

For information on disinfecting Alcotest devices, see document 9300698 at www.draeger.com/IFU.

7 Storage

WARNING

Damage to the device

Leaking battery acid can cause damage to the device.

- Remove the battery if the device is not going to be used for a prolonged period of time.
-

8 Disposal



This product must not be disposed of as household waste. This is indicated by the adjacent symbol.



You can return this product to Dräger free of charge. For information please contact the national marketing organizations or Dräger.



Batteries must not be disposed of as household waste. They are therefore marked with the adjacent symbol. Dispose of batteries at battery collection centres as specified by the applicable regulations.

9 Technical data

Measuring principle

Electrochemical sensor (fuel cell)

Measuring range

Alcohol concentration 0 to 525 mg%
(Ethanol mass per blood volume or mass at 20 °C and 1013 hPa)

A conversion factor of 2100 is used to calculate the blood alcohol concentration using the breath alcohol concentration data (factory setting, country-specific conversion factors can be configured).

Measurement units

mg%

The device is approved in Canada as a screening device under section 320.11 of the Criminal Code. It is configured in accordance with the standard.

Measured value

Display

0 mg% to 10 mg%

0 mg%

IRP (Immediate Roadside Prohibition)

0 mg% to 59 mg%

Numerical in mg%

60 mg% to 99 mg%

Warn

100 mg% or greater

Fail

Standard

0 mg% to 49 mg%

Numerical in mg%

50 mg% to 99 mg%

Warn

100 mg% or greater

Fail

Ambient conditions

During operation

-6 °C to +51 °C
(+21 °F to +124 °F)
10 to 100 % RH
(non-condensing)
600 to 1300 hPa

During storage

-20 °C to +60 °C
(-4 °F to +140 °F)

15 to 75 % RH (10 to 100 % RH <48 h)

Sampling

Breath volume

>1.2 L (default setting)

Breath flow

>10 L/min (default setting)

Breath duration

>1.6 s (default setting)

Measurement accuracy

Standard deviation of repeatability with ethanol standard

Up to 100 mg%

1.7 mg%

≥100 mg%

1.7 % of the measured value

depending on which value is higher

Sensitivity drift

Typically 0.4 % of the measured value per month

Ready stage following a previous test conducted at room temperature

0 mg%: <2 s

100 mg%: <25 s

Calibration

Recommendation: every 12 months (local deviations possible)

Dimensions

5 cm × 14.4 cm × 5.3 cm (W × H × D)

Backlit LED display dimensions

3.2 cm x 2.2 cm (W x H)

Weight

150 g

Power supply

1 × 3 V CR123A

The battery is designed for up to 1500 measurements (depending on use and ambient conditions)

Protection class

IP 54

Interface

Micro-USB, 2.0 fullspeed; for service personnel only

CE marking

Electromagnetic compatibility

Electromagnetic Compatibility (EMC)

- CE Mark compliant for EMC compatibility for emissions and immunity
- In case of high levels of EMC/RFI, the device will detect it, will show error message and will shut down.

Configuration possible, see nameplate