

Legal limit for driving in European countries

**Comply with the applicable legislation in terms of
breath alcohol levels behind the wheel**

Limit in mg/L	Description
0.40	United Kingdom, Ireland, Luxembourg, Malta
0.25	Austria, Belgium, Bulgaria, Cyprus, Denmark, Finland, France , Germany, Greece, Italy, Latvia, the Netherlands, Portugal, Slovenia, Spain
0.20	Lithuania
0.10	Norway, Poland, Sweden
Zero tolerance	Estonia, Romania, Slovakia, Czech Republic, Hungary

Relationship between the different units used in Europe:
0.25 mg/L = 25 µg/100 ml

DISPLAY MODE: (Option chosen at the time of acquisition)

Display mode 1: Your ETHYWAY V2 has NF certification for a legal limit of 0.25 mg/L of exhaled air (legal limit in France). Above 0.24 mg/L, your device displays HI and emits a beep.

Display mode 2: For special use such as in a medical context, associations in the fight against alcohol behind the wheel and simple screening, the device displays a digital value above the legal limit up to 0.49 mg/L of exhaled air in compliance with NF EN 16280. The message "HI" is displayed above this limit. The alarm goes off once 0.25 mg/L is reached.

Introduction

• This system is designed to measure the alcohol level in human breath. The measurements obtained with this system are used to diagnose alcohol intoxication.

This system's precision has been established at an alcohol concentration of 0.00 - 0.18 and 0.30 mg/L.

Important information before testing:

- Wait at least 20 minutes after your last alcoholic drink.
- Wait at least 5 minutes after consuming any food, drink, cigarettes or medicines.

Certain substances may disturb your results (food, drink, cigarettes or medicines, etc.).

- Not following these procedures may lead to erroneous results.
- Operating temperature between +10°C and +40°C.

› **Power supply**

- Slide the cover off the back of the device
- Insert two 1.5-V AAA alkaline batteries, being careful with the polarity symbols: +/-

› **Instructions for use**

- Insert a mouthpiece into the mouthpiece holder (change the mouthpiece with each use).

• **Using mouthpieces:**

Tear open the protective film.

Hold the protective film in place to protect the area where the lips will come into contact to avoid all risk of contamination. Attach the mouthpiece to the device while holding the other end with the protective film between your fingers.

After use, remove the mouthpiece while protecting yourself with the film that you should save for this purpose.

Do not touch the disposable mouthpieces directly

- Press the "TEST" button and hold it down.

Release once the device switches on.

The number of tests already performed is displayed.

- The Breathalyser is now preparing for the test.

Wait for the end of the countdown:

- The letters 'CCC' are displayed at the end of the countdown.

Take a deep breath and blow into the mouthpiece continuously as long as the sound signal lasts until you hear the pump start with a "click".

- The screen now displays «---» whilst awaiting the results of the test.

Your results will then be displayed for 15 seconds

- The device switches off automatically.

•Memory mode:

After your test, the results are displayed for 15 seconds. In the meantime, after 7 seconds the device beeps. After this signal, press the test button to display the last 10 results. The memory is displayed starting with the last test performed.

›Troubleshooting

Message	Description	Comment
No display	Press and hold the "TEST" button down. Release once the device switches on	If the problem persists, check the batteries
"E01~ E08"	Problem detecting breath	You must blow continuously for 5 to 7 seconds. The most common message is E06 for discontinued blowing or insufficient volume
"bat"	Low battery	Replace batteries.
"HI"	Alcohol level above the display limit	Above 0.24 mg/L for France. (display mode 1) Above 0.49 mg/L. (display mode 2)
"Err"	Device not ready	Start test over
"E-0"	Outside the range of temperatures for use	Use the device in a place where the temperature is between 10 and 40°C

Important information

- Never use the breathalyser without a disposable mouthpiece. This could cause permanent damage to the fuel cell and will not be covered by the warranty.
- Wait at least 20 minutes after consuming the last alcoholic beverage.
- Wait 5 minutes after drinking a non-alcoholic beverage or after eating food or taking medicine.
- Use within a range of temperatures between 10°C and 40°C.
- Storage: -20°C to +70°C
- Calibration: the maximum period of use between two calibrations is 1 year (see inspection date on the device).
Caution: exceeding this 1-year period may lead to erroneous results. Calibration operations can only be performed by the technical services at OBJECTIF PREVENTION.
- When there is a temperature difference between two locations, wait a few minutes before using.
- Do not store in full sunlight.
- Avoid dropping or giving a sharp blow.
- The results obtained do not have legal standing against those obtained by the police.
- The maximum breath alcohol level is reached after at least 20 minutes. All measurements taken earlier will automatically give a breath alcohol level that is lower than the actual level.
- The maximum value for which the system will give a null value is 0.04 mg/L.

Technical features

- Sensor: 11-mm electrochemical sensor
- Display: LED
- Dimensions: 105 x 45 x 17 mm
- Power supply: Two 1.5-V AAA alkaline batteries
- Operating temperature: +10°C to +40°C
- Auto-OFF: 15 seconds
- Accuracy: +/- 0.03 mg/L to 0.25 mg/L
- Measurement range: 0.00 mg/L to 0.24 mg/L (display mode 1)
0.00 mg/L to 0.49 mg/L (display mode 2)
- Memory: Last 10 tests
- Calibration: 12 months
- Warranty: 12 months from date of purchase
- Storage: -20°C to +70°C
- Breath detection: Pressure sensor insensible to ambient noise

Laboratory address (returns, calibration and after-sales service):

OBJECTIF PREVENTION

BREATHALYSER DIVISION

7, RUE DE LA MICARDIERE

50530 SARTILLY FRANCE

Tel:+ 33 (0)2 33 48 92 15

E-mail: infos@objectif-prevention.fr

► **Environment and safety**

Do not throw batteries into fire. Alkaline batteries can be recharged. Danger of explosion! Only use the recommended single-use batteries and mouthpieces.

• All persons in possession of batteries and accumulators are responsible for managing their disposal. They must ensure they are disposed of in compliance with the applicable regulations. Article L 541-2 of the French Environmental Code.

• The recommended frequency for calibration and adjustment operations is a maximum of 1 year between two calibrations.

• **Calibration conditions:**

- The gas used must be a wet gas and must have a temperature of $(34.0 \pm 1.0)^\circ\text{C}$

- The ambient temperature must be $22^\circ\text{C} \pm 4^\circ\text{C}$.

- Humidity of the ambient air (20 to 80)% RH.

- The value of the calibration solution is 0.25 ± 0.01 mg/L

- Breathalysers should be stored at 20°C for at least 2 hours before calibration.

- Ambient atmospheric pressure

- Volume of breath (1.5 ± 0.1)L

These calibration and adjustment operations must be performed by competent people

Contact OBJECTIF PREVENTION for any additional information

Name and address of the certifying organisation:

L.N.E., 1 rue Gaston Boissier, 75015 Paris, France

Website: www.marque-nf.com

Key features certified:

- Suitability for use

- Metrological qualities

▸ Warranty

The warranty applies if the defective product is returned during the warranty period along with the purchase invoice.

The warranty does not cover:

- Transport costs or risks incurred during transport
- Periodic maintenance
- Consumables
- Deterioration or defects resulting from use that is not in accordance with these operating instructions
- Repairs performed or attempted by people
- If the inspection label on the back of the device has been damaged, removed or torn, if the device has been opened or if storage conditions are not in compliance



ETHYWAYV2 has been approved according to European standard

NF EN 16280:2012.

Manufacturer: SKYFINE

Distributor: OBJECTIF PREVENTION

Model: ETHYWAY V2 Breathalyser equipped with an electrochemical cell