



USER MANUAL 2007/2008

WWW.MTCHEALTHCARE.COM

Overview of the Alcologic Personal Alcohol Breathalyser

The Alcologic personal alcohol breathalyser has been designed to give an indication of the presence of alcohol in the blood. The device gives a digital read out of a person's approximate blood alcohol concentration (known from here on as **BAC**).

It is recommended that the Alcologic be used for personal use only. Using the unit an abnormal amount of times on multiple persons will shorten the life of this product or may diminish its accuracy.

It is vital that these instructions are read in their entirety in order to ensure a longer life of the unit and to fully maximise its potential.

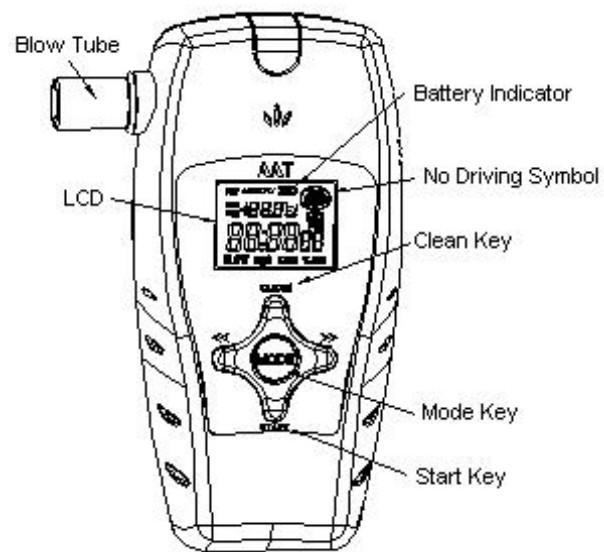
How does alcohol testing work?

When alcohol enters the blood through our alimentary canal (mouth, throat, stomach and intestines) it is distributed through every part of the body including the lungs. As the blood passes through the lungs a quantity of alcohol passes through the alveoli (tiny sacs of air in the lungs). This quantity of alcohol that passes through the alveoli is proportionate to the amount of alcohol present in the blood. By using a breath testing device it is possible to measure this quantity of alcohol that passes through the alveoli, and consequently calculate the person's BAC (Blood Alcohol Concentration). The ratio of breath alcohol to BAC is 2,100:1. In simple terms every 2100 millilitres of breath will contain the same amount of alcohol as 1 millilitre of blood. For this reason it is necessary for a test subject to blow into the Alcologic for at least 7 seconds so that a sufficient deep air lung sample is obtained. Failure to do so may result in an artificially low reading. Please read the full instructions carefully for proper use of the Alcologic unit.

Effects of alcohol on the body: Alcohol intoxication

The users of the Alcologic should be aware that a digital reading of BAC does not give an indication of alcohol intoxication. A person is said to suffer from alcohol intoxication when the quantity of alcohol the person consumes exceeds the individual's tolerance for alcohol and produces behavioral or physical abnormalities. In other words, the person's mental and physical abilities are impaired. The effects of alcohol intoxication on each individual vary greatly among users depending on a number of variables for example metabolism, age, sex, weight and even altitude and temperature. It is for this reason that some users may become intoxicated at much lower levels than others and a perceived safe reading on a breathalyser in % BAC does not mean that the person's mental and physical abilities are not impaired. The majority of countries in the European Union consider a reading of 0.08% BAC or higher to be unsafe to drive a vehicle and therefore doing so is punishable by law. This does not mean that driving or operating machinery at this level is safe. Never ever drink and drive.

COMPONENTS DIAGRAM



OPERATING INSTRUCTIONS

THESE MUST BE READ BEFORE USE

Preparation

Install 3 x 1.5V alkaline batteries in the battery component located on the reverse side of the unit. All segments of the LCD screen will turn on for a short period. The unit will then revert to real time clock mode (RTC)

IMPORTANT: BEFORE THE TEST YOU MUST WAIT AT LEAST 20 MINUTES BEFORE EATING, DRINKING OR SMOKING. IF YOU DO NOT THE TEST RESULT MAY BE ALTERED AND THE UNIT MAY BE DAMAGED.

1. Press MODE key to toggle Real Time clock mode (RTC) & Alcohol mode (DAC).
2. Activate self cleaning function: "AIRExit"

In DAC mode, press TEMP/AIR Exit to activate the 10 second air exhaust feature to make sure there are no alcohol residues or dust particles inside the gas chamber.

3. Insert the provided blowing tube into the gas inlet
4. Press the START Key to activate an approximate 30 seconds sensor-warm-up process. "PH" flashes for about 30 seconds and is then followed by 12-second count down. "BLOW" flashes together with beep tone when the unit counts down to zero. You are now ready to start the test.
5. Blow continuously through the blowing tube for approximately 7 seconds. After 7 seconds of continuous and steady blowing you will hear a beep tone. Only then should you stop blowing. **Note:** You must blow for at least 7 seconds to get an accurate reading of **BAC**. Failure to do so may result in an abnormally low reading as you may not be giving a deep air lung sample. Getting a deep air lung sample means you are expelling the last portion of air in your lungs. It is this sample that provides the most accurate estimate of your BAC.
6. You are now ready to read your result: **NEVER DRINK AND DRIVE!**
 - A measurement of less than 0.01% BAC will show "LO" with the white back light.
 - A measurement between 0.01% BAC and 0.065% BAC will show its digital reading on the LCD. The back light remains white

- **PRE-ALERT!** : A measurement between 0.066% and 0.079% BAC will cause the LCD to give the warning “HI” and flash red, the unit will also beep 4 times. The back light on the LCD will remain red until the next test. This is a warning that you are approaching the danger level of 0.08% BAC.
- **ALERT!** : A measurement between 0.08% and 0.089% will cause the unit to give the warning “HI” and beep 10 times along with the LCD flashing red. The back light on the LCD will remain red until the next test. This is a warning that you have exceeded or equal the danger level of 0.08% BAC.
- **EXCEED LEVEL:** A measurement that exceeds 0.089% BAC will cause the unit give the warning “HI” and flash red/beep for 20 seconds. The unit will also give a digital reading of BAC up to 0.15%. This is a warning that you are far beyond the danger level.

QUICK GUIDE TO PRE-SET ALERTS: NEVER DRINK AND DRIVE

Alert Level	BAC Range %	Alert Warning	What it means
LOW	Less than %0.01 BAC	“LO” with no change to Back light	Less than 0.01% Alcohol in blood
LOWER RANGE	Between 0.01 AND 0.065 BAC	Unit shows digital BAC Reading – no back light change	More than 0.01% alcohol present but less than 0.065%
PRE-ALERT LEVEL: (approaching alert level)	Between 0.066% and 0.079 % BAC	LCD Reads “HI” flashed red, unit beeps 4 times	Danger you are approaching the critical limit of 0.08% BAC
ALERT LEVEL	Between 0.08% and 0.089% BAC	LCD reads “HI” flashes red, unit beeps 10 times	You have exceeded the critical limit of 0.08% BAC
EXCEED LEVEL	Above 0.089% BAC, unit will only read up to 0.15%	LCD reads “HI” flashes red and beeps for 20 seconds. A digital BAC reading is also shown	Alcohol BAC is estimated to be extremely high exceeding 0.089%

Understanding the Alert Signals: Warning:

The Alcolagic has been preset to provide digital, audio and visual warnings at various % BAC readings. The result that is displayed on the device is an estimate of the subject’s % BAC. Therefore preset alert levels are meant as a guide line only. The UK, Irish and other European governments have %0.08 as the legal limit for operating a motor vehicle. The Alcolagic should only be used as a screening device and may only give a reading of the possible presence of alcohol in the blood of the test subject. Therefore the device must not be used to determine whether a person is fit to drive or operate machinery. The Correlation of Breath Alcohol to BAC depends on many factors including temperature and the test subjects health conditions. The exact BAC of a subject cannot be determined by using a breath alcohol screening device. NEVER EVER DRINK & DRIVE

Please refer to sections “Effects of alcohol on the body: Alcohol intoxication”, and “Warnings & Precautions” for a further insight into understanding your result.

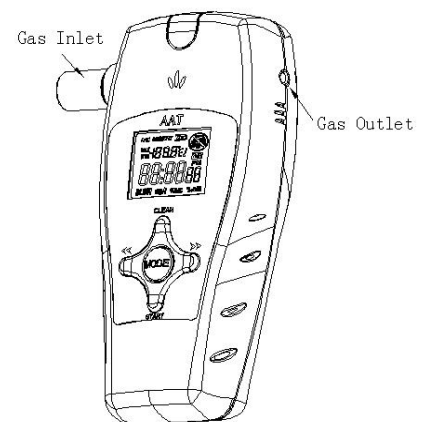
NEVER EVER DRINK & DRIVE

Enhanced feature instructions

- **Switching between Real Time Clock and Alcohol Mode:** Hold MODE Key toggle Real Time clock (RTC) / Alcohol mode (DAC).
- **Using the Memory Function:** In DAC mode, press >> or << key to scroll forward or backward the 99 memory readings. Hold >> or << key for 2 seconds to clear the memory readings in alcohol mode.
- **Using the Self Cleaning Function:** Whilst in DAC mode : Press CLEAN to activate the 10-second air exhaust feature and display Air clr and the count down figure.
- **Setting the time:** Press << or >> key to decrease or increase the selected digit in real time setting mode. Press START key once to shift the select digit in real time setting mode.
- **Using the thermometer:** Press << key to toggle the temperature unit (°C/°F) when showing the temperature. Press >> key recall the MAX/MIN temperature memories Press & Hold >> key for one seconds to clear the MAX/MIN temperature memories

Warnings & Precautions:

- 1) Wait at a minimum of 20 minutes after drinking, eating or smoking before the test.
- 2) Do not test in an enclosed environment with heavy amounts of smoke
- 3) Do not test in an area where there is heavy winds
- 4) Do not test in an enclosed area where large amounts of alcohol is being consumed
- 5) Don not for any reason blow smoke, food or liquid into gas chamber as this may damage the sensor.
- 6) During the breath sampling, users should not block the gas outlet. Otherwise, the reading will be affected.
- 7) After any 5 consecutive tests, allow the device to rest for 2 minutes.
- 8) When the product is unused, please store in a dry environment.
- 9) When the battery energy not is too low to perform a test, “LOB” flashes and then returns to Real Time Clock mode. Please replace the batteries immediately.



You can also gauge how much battery power is left by viewing the battery graphic on the LCD.

10) If the difference between two successive readings is $> 0.01\%$ BAC, user should test again.

11) THE RESULTS OF THE ALCOLOGIC SHOULD NOT BE USED TO DETERMINE WHETHER A PERSON SHOULD DRIVE OR OPERATE MACHINERY.

A PERSONS BAC CAN CHANGE OVER TIME, DEPENDING ON A NUMBER OF FACTORS. A BAC READING AT A PARTICULAR TIME DOES NOT MEAN THAT THE BAC READING WILL BE THE SAME EVEN A SHORT WHILE LATER. THE RESULTS OF THE ALCOLOGIC CANNOT BE GIVEN AS LEGAL EVIDENCE OR IN AN EVIDENTIAL/WORKPLACE ALCOHOL TESTING PROGRAMMES. NEVER EVER DRINK & DRIVE, ALWAYS HAVE A DESIGNATED DRIVER!

PRODUCT SPECIFICATIONS:

1.	Display Range:	<i>Low, 0.01 0.15 % BAC, Hi</i>
2.	Memory:	99 memories
3.	Power Input:	3*1.5V <u>Alkaline</u> batteries
4.	Display:	Graphic & Digital display with Bi-color backlighting
5.	Real time clock power save mode:	2 minutes after any key in
6.	Breath sampling:	About 7 seconds continuous breath sample
7.	Recycle time:	~60 seconds
8.	Dimensions:	125.7*63.2*27.8 mm
9.	Weight:	78g (without batteries)
10.	Alert level calibrated:	0.08% BAC
11.	Agency Approval:	CE
12.	Accessories:	2 pcs blowing tubes, Wrist strap
13.	Operating temperature:	0 -40°
14.	Temperature measuring range:	-15 -50

ACCESSORIES & PROFESSIONAL ENQUIRES:

WORKPLACE EVDENTIAL UNITS AND OTHER MULTI-USER DEVICES CAN BE PURCHASED FROM MTCHEALTHCARE CUSTOMER SERVICE BY CALLING 1850 851 958 OR VISITING WWW.MTCHEALTHCARE.COM . OTHER ACCESSORIES SUCH AS MOUTH PIECES, WRSIT STRAPS AND CALIBRATION SERVICES MAY ALSO BE PURCHASED FROM MTC HEALTHCARE OR BY ASKING YOU LOCAL REATILER.

CALIBRATION

All alcohol breathalysers require re-calibration Furthermore the device should be re-calibrated every 6 – 12 months with more frequent re-calibration required if the device If used very regularly such as once per day. Furthermore If the unit is providing unusual or inconsistent results (e.g. If the reading is abnormally high or there is no reading at all even though alcohol has been consumed) then the unit will have to be checked.

PLEASE ASK YOUR LOCAL RETAILER OR DISTRIBUTOR FOR CALIBRATION SERVICE DETAILS OR CONTACT MTC HEALTHCARE ON 1850 851 959 OR VISIT WWW.MTCHEALTHCARE.COM FOR FURTHER INFORMATION.

LIMITED WARRANTY

The manufacturer and MTC Healthcare Ltd. And the Retailers warrant this device to be free from defects in workmanship or material (excluding calibration) under normal use for one year from date of purchase.

The obligations of the manufacturer, MTC Healthcare Ltd. And the Retailers under the limited warranty are limited to replacing, adjusting or repairing the unit if returned along with proof of purchase. This warranty is void if the unit has been tampered with or damaged.

The enforceability of this warranty is limited to the original consumer purchaser and is not transferable to, or enforceable by, any subsequent owner. In the event of a defect, malfunction or any other failure to conform to this warranty the manufacturer or MTC Healthcare Ltd. or the retailer, will, at its sole discretion: (1) repair or (2) replace the unit at no charge or (3) refund the cost at the time of purchase the consumer. You are responsible for all shipping cost in connection with warranty service. This warranty commences on the date of retail purchase and shall be effective for a period of one year.

THERE ARE NO EXPRESS WARRANTIES COVERING THE UNIT OTHER THAN THOSE SET FORTH IN THIS WARRANTY. ALL IMPLIED WARRANTIES ARE LIMITED TO THE PERIOD OF THIS WARRANTY AND NO WARRANTIES, EXPRESS OR IMPLIED BY STATUTE, EXTEND BEYOND THIS PERIOD.

The manufacturer, retailers or MTC Healthcare Ltd. will in no event be liable for any consequential, incidental, indirect or special damages (including but not limited to loss of profits) arising out of or in connection with the use, misuse or function of the unit.

THIS WARRANTY MUST BE READ IN CONJUNCTION WITH THE INSTRUCTIONS AND DISCLAIMER.

Obtaining Service during the Warranty period

To obtain service during the warranty period please contact MTC Healthcare on +353 1 87 48 727 or email service@mtchealthcare.com

PRODUCT SPECIFICATIONS:

DISCLAIMER:

A)The manufacturer, retailers and MTC Healthcare Ltd. make no warranties, express or implied as to the ability of the device to determine whether a user of this product is legally intoxicated, and MTC healthcare expressly disclaims any liability for incidental, special, or consequential damages of any nature.

B) Decisions and/or actions based upon the reading of this device shall be entirely the persons own risk.

C) The Manufacturer, retailers and MTC Healthcare Ltd. make no warranties express or implied that the Alcologic or any modification or adjustment thereof is a legal protector or evidence or defence against any police or public procedure or judicial or investigative proceedings in any jurisdiction.

D) The manufacturer, retailers and MTC Healthcare Ltd. does not warrant the veracity of the readings of the Alcologic unit as evidence.

E) The manufacturer, retailers and MTC healthcare Ltd. assumes no responsibility for users who test negative when and later show that they are under the influence of alcohol or are proven to be intoxicated by alcohol.

F) This Alcologic Unit should only be used as screening device and may only give an indication as to the possible BAC of the test subject at the exact time of using the Alcologic Unit. Correlation between breath alcohol content and BAC depends on numerous variables, including temperature and health conditions. A safe BAC reading does not mean that the test subject is not intoxicated to the point where his or her reactions are impaired. The precise correlation of alcohol in a test subject's blood cannot be determined solely by using a breath alcohol screening device.

THIS DISCLAIMER MUST BE READ IN CONUNCTION WITH THE INSTRUCTIONS AND WARRANTIES.



USER MANUAL

MTC Healthacre 2007 www.mtchealthcare.com