

WHITE PAPER SERIES



# THE EASY CHECK PERSONAL BREATHALYSER

## ABSTRACT

The Alcolizer Easy Check (EC) is the personal breath alcohol test unit relied on by thousands to keep safe.

By Laurie Wilson



## INTRODUCTION

The Alcolizer Easy Check (EC) is the personal breath alcohol test unit relied on by thousands to keep safe.

The Alcolizer EC uses the same electrochemical fuel cell sensing technology as used by Australian Police Forces, but comes at an affordable price for personal users.

Whilst the Alcolizer EC utilises police standard electrochemical fuel cell sensing technology, the vast majority of 'personal breath testers' in the market use low cost semi-conductor sensors or cheap, low grade manufactured fuel cells. Alcolizer chooses to exclusively use the highest-grade platinum fuel cells for all of our products, including the Alcolizer EC.

Manufactured to the highest quality standard (ISO:9001) and holding Australian Standard AS 3547 Type 2, the EC is the smart choice for the personal user.

## ALCOHOL BREATH TESTING AND FUEL CELL TECHNOLOGY

Police grade breath testers are designed to monitor the exhaled breath of a subject and analyse a sample of "deep lung air," where the quantity of any alcohol in the blood

is found by the breath moving in and out of the deepest parts of the lungs.

By accurately measuring the blow pressure, high quality breath testers, like the Alcolizer EC, collect a sample of true deep lung air, then accurately analyse any alcohol present in the breath using high grade platinum fuel cell technology. Very few alcohol breath testers meet the stringent standards of accuracy and sensitivity of Australian Police. As the largest manufacturer and supplier to Australian Police, Alcolizer insists on using the same grade of electrochemical fuel cell sensors in all our instruments, including the Alcolizer EC personal breath tester.

Members of the public can test themselves on an Alcolizer EC, knowing that the technology and accuracy is the same as they might be tested on by Police on the roadside.



## MAINTAINING AUSTRALIAN STANDARDS

In order to maintain Australian Standards Certification, the Alcolizer EC must be recalibrated every six months.

All Alcolizer EC's should be returned to Alcolizer in the Express Post envelope supplied with the instrument when "RECAL" appears on the display screen.

Full service and calibration is conducted by highly trained Factory Certified Technicians to ensure that the instrument continues to analyse blood alcohol concentration (BAC) in strict compliance with the Australian Standard AS 3547 Type II.

## THE EASY CHECK BATTERY LIFE

**Please Note:** The Alcolizer EC **does not** require any change of battery between the six-monthly service and recalibration.

The instrument holds a display on the screen in a 'low power mode' (appearing that it hasn't switched off) however this is normal operation. The battery will not go flat between calibrations.

## BAC LEVEL AND EFFECTS FROM ALCOHOL ON DRIVING

BAC Level	Effects from alcohol on driving
0.025 to 0.05	Reduced ability to see or locate moving lights correctly
	Reduced ability to judge distances
	Increased tendency to take risks
	Decreased ability to respond to several stimuli
0.05	Twice as likely to have a crash as before you started drinking
0.05 to 0.08	Further reduction in your ability to judge distances
	Impaired sensitivity to red lights
	Slower reactions
	Shorter concentration span
0.08	Five times more likely to have a crash than before you started drinking
0.08 to 0.12	Overestimate abilities
	“Euphoria” sets in
	Impaired peripheral vision
	Impaired perception of obstacles
	Ten time more likely to have a crash

*(Drinkwise Australia 2014)*

## CONCLUSION

When it comes to alcohol breath-testing, it is paramount to test yourself with the most accurate equipment on the market. Quality fuel cell sensor alcohol testers, are used exclusively by Australian Police Forces to conduct roadside alcohol screening. As the largest manufacturer and supplier to Australian Police, Alcolizer insists on using the same grade electro-chemical fuel cell sensors in all our instruments, including the Alcolizer EC personal breath tester.

For more information regarding Alcolizer Easy Check Breathalysers, **contact Alcolizer on 1300 789 908 or talk to a sales specialist.**

## ABOUT ALCOLIZER TECHNOLOGY

Alcolizer Technology is a world-leader in the field of Alcohol and other Drugs (AOD) testing and is recognised as one of Australia’s most innovative and forward-thinking company’s.

Headquartered in Brisbane, Australia, we have been one of the world’s leading manufacturers of alcohol breath testing equipment for almost 25 years. Law enforcement agencies, industry, and personal users trust Alcolizer to keep themselves and their employees safe.

Alcolizer is the largest provider of Breath Testing devices to Australian Police and the largest provider to the Australian Resource sector. Our products are built in Australia, for Australia, and shipped around the world wherever people value quality, reliability and innovation.

As our company name implies, we started out in alcohol breath testing and quickly became a leader in the field. In 2012 Alcolizer continued its track record of innovation and launched Druglizer™, an industry leading drug testing service designed to complement its financial investment in Oxford University start-up company OxTox.

At Alcolizer, we believe alcohol and drug testing is critical for personal safety and a safe and productive work place. So whether you are a law enforcement agency, need industrial-scale testing or are a personal user, you can trust Alcolizer Technology to be at the forefront of alcohol and other drugs testing technology, with world class products and services to support you wherever you are.

As a technology company focussed on Alcohol and other Drugs testing, our dedicated research and development (R&D) teams keep us at the forefront of the AOD industry; our in-house manufacturing expertise gives us full control over product quality; and our dedicated and professional sales team is focussed on meeting the individual needs of our customers. We complement this with tailored education programs to help our customers meet the challenges of AOD program deployment and our factory certified technical support and service specialists providing the industry’s best support when, and where, you need it.

With leading-edge products and services, we are a world leader in our field.

## ABOUT THE AUTHOR

After a long and successful career as a professional educator and small business innovator, Laurie Wilson joined engineer Laddie Nadilo in 1998 to grow an embryonic alcohol breath test manufacturing operation from Laddie's garage; growing to become the QLD Small Business of the Year (2004), a Finalist in the Australian Design Awards, and the exclusive supplier of alcohol breath test screeners to NSW Police, SA Police, the AFP, NT Police and thousands of businesses across Australia and Internationally.

Always focused on innovation and tailoring both products and services to customers requirements, Laurie became a specialist in the alcohol breath test industry and built strong relationships with Police across

Australia and in more than a dozen foreign countries.

After more than 13 years as a Business Development Manager specialising in Police, Laurie assumed the role of General Manager of Alcolizer and continued the growth of the company to the present day, where Alcolizer is now acknowledged as Australia's leading manufacturer and supplier of alcohol breath test instruments and service, and the major supplier to Police and big business in Australia and across the region.

Always maintaining an interest in alcohol and drug testing technology, Laurie has driven R&D projects and registered patents for new technology. From all of Alcolizer's achievements over the last 16 years, Laurie is most proud of leading

the company in its work with the World Health Organisation to provide instruments and training for alcohol breath testing programs in developing nations.

Alcolizer has recently restructured to run under a Board of Management, on which Laurie sits with responsibilities for national and international sales, and as a voice on R&D, and future company direction. With Alcolizer now involved in the development of exciting new drug testing technology, and R&D to develop industry leading new alcohol breath testing technologies, there will be plenty of opportunity for Laurie to continue his passion for this industry.

**Alcolizer**  
technology

