

breathalyser



AlcoTrue[®] M Breathalyser

Professional medical breathalyser for rapid accurate determination of breath alcohol concentration



Ideal for use by

- Emergency Services
- Accident and Emergency Departments
- Rehabilitation Clinics



Professional Breathalyser for rapid accurate determination of breath alcohol concentration. AlcoTrue M is designed for diagnostic use, e.g. hospitals and rehabilitation clinics

AlcoTrue M Standard Package

- AlcoTrue M Breathalyser; with active & fast modes**
- 25 mouthpieces (individually wrapped)
- Battery holder (4 x AA)
- 4 x AA batteries
- Instructions for use
- Small hard carrying case

** Further modes can be activated by Viamed, please confirm when ordering.



Key Features of the AlcoTrue M Breathalyser

- Professional fuel cell technology
- Precision intelligent microprocessor sampling system
- Automatic self-test after switch on
- Rapid, precise and reliable measurements, even at sub-zero ambient conditions
- Intuitive user interface
- Ready to test < 6 seconds
- Results are shown on a 1.77" colour display
- Compact, ergonomic design
- Low maintenance and spare part costs

Measurement Modes

The **AlcoTrue M** provides up to five measurement modes, ideal for any situation:

■ Active mode AM

To determine the precise alcohol level in the end-expiratory breath of the person to be tested after achieving a minimal breath volume from 1.2 L. It is ensured that only deep lung breath (alveolar breath) is analysed.

■ Fast mode FM

Intended for persons suffering from COPD, Asthma or reduced lung capacity, whom might not be able to provide the standard minimum sample volume.

■ Passive mode PM*

To obtain a precise measurement, the sample uptake must be triggered when the person is breathing out. The measurement mode is to determine the quantitative value of alcohol concentration.

■ Scan mode SM*

Qualitative testing of the ambient air alcohol content, qualitative determination of alcohol content in exhaled air of a person who is not able to provide a breath sample (e.g. unconscious person), qualitative test of "non-alcoholic" drinks for alcohol content.

■ Mouth alcohol mode MA*

Consists of two tests with a determined waiting period between first and second measurement.

* Measurement modes only available if activated.



Applications

The AlcoTrue M Professional Breathalyser is ideal for use by:

- Emergency Services
- Accident and Emergency Departments
- Rehabilitation Clinics

AlcoTrue M Breathalyser Kit

- AlcoTrue M Breathalyser
- Battery holder (4 x AA)
- 4 x AA batteries
- Li-Poly battery
- UK or EU* main power adapter with USB data cable
- Vehicle power adapter
- 25 hygienic mouthpieces (individually wrapped)
- AlcoPrint P printer
- Printer cable
- AlcoPrint UK or EU* mains power cable
- AlcoPrint vehicle power cable
- Single roll of printer paper
- PC software & USB cable
- Large hard carry case

* Must be specified at time of ordering.



The AlcoPrint P Printer

The **AlcoTrue M** Breathalyser Kit includes a AlcoPrint P USB wireless printer, this can print wirelessly from a range of 5 - 10 metres or connected directly to the unit with the USB cable provided. The AlcoPrint P printer is powered by either a vehicle or mains* power cable (provided). The AlcoPrint P printer is a thermal transfer printer.

The Printer Set is also available to purchase separately and includes: AlcoPrint P Printer, Printer Cable, UK or EU* Mains and Vehicle adapter and a roll of printer paper.



AlcoPrint USB Wireless Printer

PC Software Kit

The **AlcoTrue M** PC Software Kit includes a USB cable and PC software CD.

The PC Software CD is also available without the USB cable.



PC Software

Additional Accessories

Mouthpieces are available in packs of 25.

AlcoPrint paper rolls are available in packs of 5.



Clinically tested in-built non-return valve and water trap

AlcoTrue[®] M Breathalyser

CE0482

Principles of measurement

Long life electrochemical sensor with precision intelligent microprocessor sampling system

Breath sample

Controlled blow volume and time, default 1.2 l

Measurement modes

Active mode (default)
Fast mode (activated)
Passive mode (activated)
Mouth alcohol mode (if activated)
Scanning mode (if activated)

Measurement range

Breath alcohol concentration (BrAC) 0.00 to 2.6 mg/l, 0 to 2600 µl, 0.000 to 0.550 g/210 l, 0 to 260 µg/100 ml, 0 to 260 µg%
(Ethanol mass per breath volume at 34°C and 1013 hPa.)

Blood alcohol concentration (BAC) 0.00 to 5.50 ‰, 0.000 to 0.550 ‰, 0.00 to 5.50 g/l, 0 to 550 mg/100 ml, 0 to 550 mg%, 0.00 to 5.50 mg/ml
(Ethanol mass per blood volume resp. mass at 20°C and 1013 hPa)

This data is given using a conversion factor of 2100:1 between breath and blood alcohol concentrations.
Other conversion factors are available upon request.

Measurement accuracy

Reproducibility with ethanol standard

0 to 0.476 mg/l	0.008 mg/l	0 to 1 ‰	0.017 mg/l
> 0.476 mg/l to 1 mg/l	4 % of measured value	> 1 ‰ to 2 ‰	4 % of measured value
> 1 mg/l	8 % of measured value	> 2 ‰	8 % of measured value

Sensitivity drift of measured value/month Typically 0.5 ‰

Ready for operation: < 6 seconds after switching on

Result format and unit Digital in green/yellow/red and in mg/l BrAC (default) or in ‰ BAC. Other units/limits can be selected via the authorised service menu.

Configurable Units	µg/l	g/210 l
	µg/100 ml	µg%
	%	g/l
	g/100 ml	mg/100 ml
	mg%	mg/ml
	P/A/F	P/F

Ambient conditions

Operation -5 to 50°C (23 to 122°F), 10 to 100 % R.H. (non-condensing), 600 to 1400 hPa

Storage -20 to 65°C (-4 to 149°F), 10 to 100 % R.H. (non-condensing), 600 to 1400 hPa

Dimensions (W x H x D) 185 mm x 55 mm x 40 mm

Weight 240g (including Alkaline batteries)
195g (including Li-Poly battery)

Display 1.77" TFT Colour display

Data memory Up to 35,000 test result measurements with date/time, calibration status

Protection IP43 (IPX3 protection against spraying water acc IEC 60529)

Standards IEC 60601-1 (3rd edition) - certified
IEC 60601-1-2:2007, EN 61326:2006,
IEC 60068-2-6:2007, IEC 60068-2-27:2008
IEC 60068-2-64:2008,
IEC 68-2-32:1975 + A1/A2:1980,
EN 60529:1991 + A1:2000

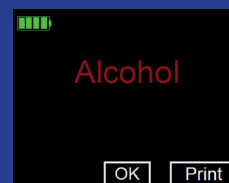
Calibration required 6 months with automatic reminder

CE marking 93/42/EEC, 2004/108/EC

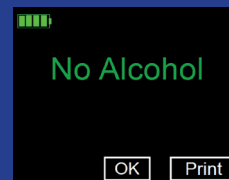
Part Numbers AlcoTrue M Standard Package 4710010
AlcoTrue M UK Kit 4710030
AlcoTrue M EU Kit 4710031

Screen Displays

Qualitative results indications (Scanning and Mouth Alcohol modes)

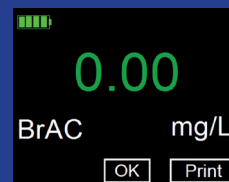


Alcohol detected in gas sample

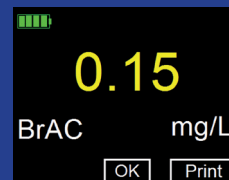


No alcohol detected in gas sample

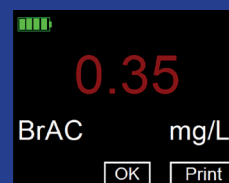
Quantitative results indications (Active, Fast, Passive and Mouth alcohol modes)



Pass



Alert



Fail

Distributed by:



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