

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

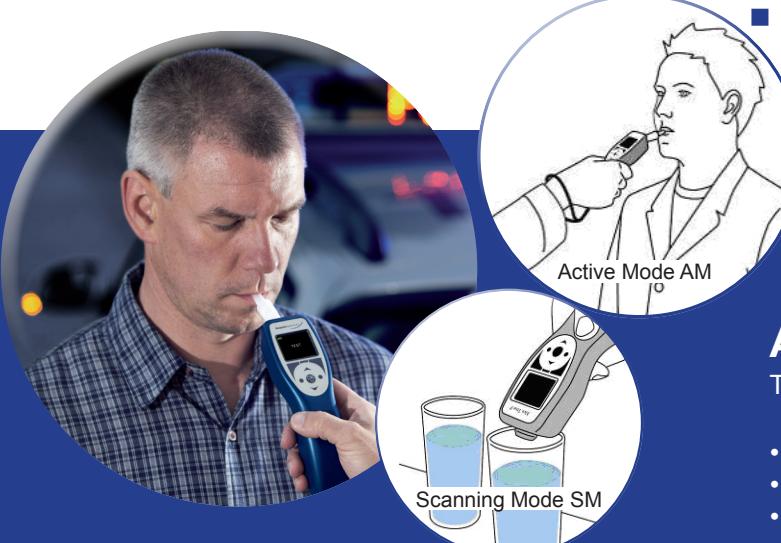
- AlcoTrue M Breathalyser; with active & fast modes**
- 25 mouthpieces (individually wrapped)
- Battery holder (4 x AA)
- 4 x AA batteries
- Instructions for use
- Small hard carrying case

** 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



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

AlcoTrue® M Breathalyser

CE0482

Sensor type	Professional Electrochemical sensor			
Sampling system	High precision sampling system 0.2ml			
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/210L, 0 to 260 µg/100mL, 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/100ml, 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.				
Ambient conditions				
For operations	-5 to 50°C (23 to 122°F), 10 to 100 % R.H. (non-condensing), 600 to 1400 hPa			
For storage	-20 to 65°C (-4 to 149°F), 10 to 100 % R.H. (non-condensing), 600 to 1400 hPa			
Sample conditions				
Minimal volume	Adjustable, 1.2L (set as default)			
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: After switching on	< 6 seconds			
Configurable Units	µg/l µg/100ml % g/100ml mg% P/A/F			
				g/210l µg% g/l mg/100ml mg/ml P/F
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			
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			
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

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