

# 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 colour OLED 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**  
Suitable to determine the precise alcohol level in expired air. It ensures that only deep lung air is delivered to the sensor.
- **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 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 mouthpieces (individually wrapped)
- AlcoPrint 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 Printer

The **AlcoTrue M** Breathalyser Kit includes a AlcoPrint 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 printer is powered by either a vehicle or mains\* power cable (provided).

The Printer Set is also available to purchase separately and includes: AlcoPrint 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



Mouthpiece

## Additional Accessories

Mouthpieces are available in packs of 25.

AlcoPrint paper rolls are available in packs of 5.

# AlcoTrue® M Breathalyser

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<b>Sensor type</b>	A318 Electrochemical sensor		
<b>Sampling system</b>	High precision sampling system 0.2ml		
<b>Measurement modes</b>	Active mode (default) Fast mode (activated) Passive mode (activated) Mouth alcohol mode (if activated) Scanning mode (if activated)		
<b>Measurement range</b>			
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.			
<b>Ambient conditions</b>			
For operations	-5 to 50°C (23 to 122°F), 10 to 100 % R.H., 600 to 1400 hPa		
For storage	-20 to 65°C (-4 to 149°F)		
<b>Sample conditions</b>			
Minimal acceptable flow	Adjustable upon request, 12 l/min (set as default)		
Minimal volume	Adjustable, 1.2L ( set as default)		
<b>Measurement accuracy</b>			
Reproducibility with ethanol standard 0 to 0.476 mg/l      0.008 mg/l      0 to 1%. > 0.476 mg/l to 1 mg/l      4% of measured value      > 1 %. > 1 mg/l      8% of measured value      to 2 %. > 2 %. 0.017 mg/l 4% of measured value 8% of measured value			
<b>Sensitivity drift of measured value/month</b>	Typically 0.5%		
<b>Ready for operation</b>			
After switching on	< 6 seconds		
After completing a measurement in range (breath alcohol unit):	Typically 0.00 mg/l      ≤ 2 seconds 0.25 mg/l      ≤ 4 seconds 0.50 mg/l      ≤ 6 seconds 1.00 mg/l      ≤ 10 seconds >1.5 mg/l      ≤ 15 seconds		
After completing a measurement in range (blood alcohol unit):	0.00%.      ≤ 2 seconds 0.50%.      ≤ 4 seconds 1.00%.      ≤ 6 seconds 2.00%.      ≤ 10 seconds >3.00%.      ≤ 15 seconds		
<b>Dimensions (W x H x D)</b>	185 mm x 55 mm x 40 mm		
<b>Weight</b>	240g (including Alkaline batteries) 195g (including Li-Poly battery)		
<b>Display</b>	Colour OLED, 256,000 colours		
<b>Data memory</b>	Up to 9999 measurements		
<b>Standards</b>	EN 60601-1:2005 EN 55011:2007, EN61326-2006 preEN 15964:2010-11 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		
<b>Calibration required</b>	12 months		

Distributed by:



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Part Number: 4790020  
 Date: 12/12



BS EN ISO 9001:2008  
 ISO 13485:2003

## Screen Displays

Qualitative results indications  
 (Scanning and Mouth Alcohol modes)



Alcohol detected in gas sample

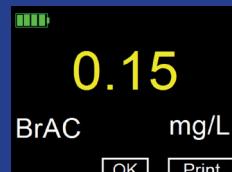


No alcohol detected in gas sample

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



Pass



Alert



Fail