breathalyser

AlcoTrue® P Breathalyser

Professional breathalyser for rapid accurate determination of breath alcohol concentration

Ideal for use
- Police
- Workplaces
- Prisons

VIAMED

Professional Breathalyser for rapid accurate determination of alcohol concentration in exhaled air.

AlcoTrue P Standard Package

- AlcoTrue P 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 P Breathalyser

- Professional fuel cell technology
- High 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, even at temperatures below zero
- Results are shown on a 1.77˝ colour display
- Compact, ergonomic design
- Low maintenance and spare part costs

Measurement Modes

The **AlcoTrue P** 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.

Active Mode AM

Scanning Mode SM

Passive Mode PM

Applications

The AlcoTrue P Professional Breathalyser is ideal for use:

- Police
- Workplaces
- Prisons

AlcoTrue P Breathalyser Kit

- AlcoTrue P 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 P** 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.
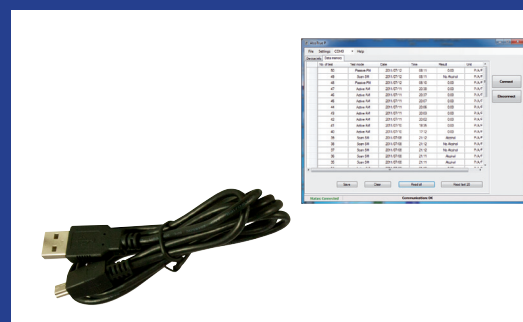

AlcoPrint USB Wireless Printer

PC Software Kit

The **AlcoTrue P** 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
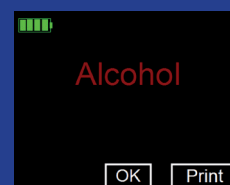
AlcoTrue® P Breathalyser

CE 0482

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/l, 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)

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

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

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″ Colour display
Data memory	Up to 35,000 test result measurements
Standards	IEC 60068-2-6:2007, IEC 60068-2-27:2008, IEC 60068-2-64:2008, IEC 60068-2-32:1975 + A1/A2:1990
Calibration required	6 months

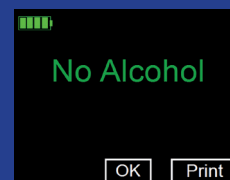| **Part Numbers**		
	AlcoTrue P Standard Package	4710011
	AlcoTrue P UK Kit	4710032
	AlcoTrue P EU Kit	4710033

Specification Subject to Change

Screen Displays

**Qualitative results indications
(Scanning and Mouth Alcohol modes)**

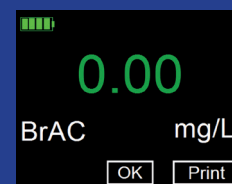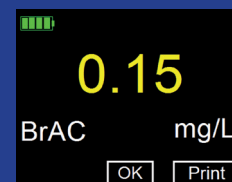
Alcohol detected in gas sample
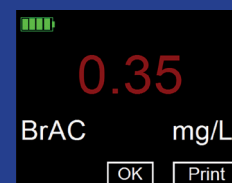

No alcohol detected in gas sample

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

Pass

Alert

Fail

Distributed by:

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