



AlcoTrue® M Breathalyser

Technical Specification

Sensor type	Professional Electrochemical sensor		
Sampling systems	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)		
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		

Calibration required

Permissible calibration range for unit of measuring value:

mg/l	0.145 to 0.750 mg/l
µg/l	145 to 750 µg/l
g/210l	0.035 to 0.150 g/210l
µg/100ml	14.5 to 75 µg/100ml
µg%	14.5 to 75 µg%
‰	0.35 to 1.50‰
%	0.035 to 0.150%
g/l	0.35 to 1.50 g/l
mg/100ml	35 to 150 mg/100ml
mg%	35 to 150 mg%
mg/ml	0.35 to 1.50 mg/ml

Standard calibration value:

mg/l	0.476 mg/l
µg/l	476 µg/l
g/210l	0.100 g/210l
µg/100ml	47.6 µg/100ml
µg%	47.6 µg%
‰	1.00‰
%	0.100%
g/l	1.00 g/l
mg/100ml	100 mg/100ml

The use of these standard calibration values corresponds to a conversion factor of 2100:1 between breath and blood alcohol concentration values

Units

Available:

mg/l (set as default)
‰

Upon request:

µg/l
g/210l
µg/100ml (Default for UK + 2300:1)
µg%
‰
%
g/l
mg/100ml
mg%
mg/ml
P/A/F
P/F

Available units can be selected by authorised personnel

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

EN 60601-1:2005 + Corr 1 (2006) + Corr 2 (2007)
EN 55011:2007, EN61326-:2006
EN 60529:1991 +A1:2000

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