

breathalyser

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:

every 6 months

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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