

Alcohol Screening

Using Rapid Tests and Instruments

Unsuitable Alcohol use is a danger to all

Ensure your colleagues are abstaining and safe to undertake their responsibilities



Alcometer
Fuel Cell Sensor

Use: For situations where reliable, accurate screening is required.
Range:
0.00 ~ 0.40‰ Promile
0.00 ~ 2.00mg/l BrAC
Accuracy:
± 0.005% BAC at 0.050% BAC

Test Strip

Use: Colorimetric saliva test for detection of alcohol
Range: 0.00-0.30% BAC



Alcolimit

Use: Breath tube for specific alcohol cutoffs
Range: 0.02 or 0.05% BAC

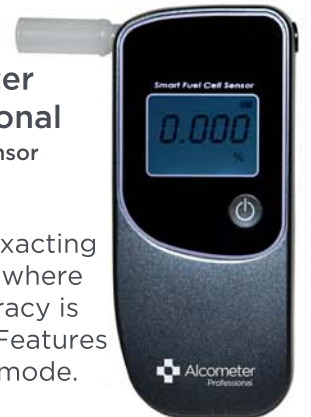


Intoximeter
Fuel Cell Sensor

Use: For exacting situations where high accuracy is required, and data stored.
Range:
0.000 to 0.440% BAC
Accuracy:
<0.01 at 0.10 BAC

Alcometer Professional
Fuel Cell Sensor

Use: For exacting situations where high accuracy is required. Features rapid use mode.
Range:
0.000 ~ 0.400‰ Promile
0.000 ~ 2.000mg/l BrAC
Accuracy:
± 0.005% BAC at 0.050% BAC



Measuring Alcohol

Blood Alcohol Content, or BAC, is most commonly used as a measure of a person's intoxication for legal and medical purposes, and expressed as milligrams per millilitre; mg/ml.

When using a breathalyser, we are looking for the level of BrAC - Breath Alcohol Content, expressed as micrograms per millilitre; ug/ml or milligrams per litre; mg/l.

The difference in the units is due to the ratio of alcohol content in the blood to breath, known as the partition ratio. Using this calculation we know that there are 2100 parts of alcohol in the blood for every 1 part in the breath, allowing us to determine an accurate BAC level by analysing breath.

The formula for calculating this would be highly complex. Fortunately we all exhale breath at the same temperature, meaning calculating temperature differentiation unnecessary. These sophisticated instruments work out the rest, giving a highly accurate result.

Semi conductor vs. Fuel Cell

Since the 1970s, breathalysers have been refined into reliable and inexpensive instruments. Inside our meters, a fuel cell features a platinum wired sensor that measures a difference in electron charge when alcohol is applied to one side of it. This highly sensitive device is able to detect very small changes in the concentration of alcohol in breath, and from this measurement, calculate the concentration of BAC.

The construction of a fuel cell means that the product life is longer than that of a semi-conductor instrument, as platinum does not corrode when in contact with H₂O, O₂ and alcohol.

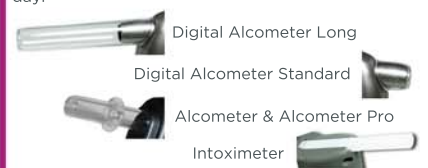
Contact us to discuss your requirements:

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Or email response@surescreen.com

Mouthpieces

Replacement mouthpieces for the Digital Alcometer Alcolimit and Intoximeter are readily available, and we hold large stocks, so we can deliver to you next day.



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