



— L I O N —

lion alcolmeter® 900



**Introducing the latest
handheld alcohol in
breath screening
instrument certified to
EN15964 from
Lion Laboratories Ltd**

www.lionlaboratories.com



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Overview

- The lion alcolmeter® 900 is a handheld portable instrument for fast, accurate on the spot determination of a subject's breath alcohol concentration level.
- Electrochemical fuel cell sensor technology measures the concentration of alcohol in the subject's expired breath, a measured amount of which is drawn from the mouthpiece into the fuel cell by means of the sampling system.
- The lion alcolmeter® 900 features include: GPS, Bluetooth, AlcoHub App, Non Return Valve Mouthpieces (NRV), Passive Breath test capability and a heated breath inlet so making the instrument ideal for law enforcement and commercial market sectors.
- The lion alcolmeter® 900 has inbuilt Bluetooth connectivity enabling direct connection to a wide range of printers. It is also compatible with the Able 1300 thermal printer which can be supplied as part of a complete instrument package from Lion.

GPS & Bluetooth

- Automatic positioning. The latitude and longitude are stored as fields in each test record.
- Bluetooth connectivity to portable devices such as a printer, PC or mobile phone. Compatible with 5G technology.

Data Collection

- Test data can be retrieved from the lion alcolmeter® 900 via USB or Bluetooth.
- Support-900 Software provides test data extraction and device configuration over a USB-C connection.
- AlcoHub (android) - Provides automated database extraction via a Bluetooth connection.
- AlcoHub (server) - Provides user administration, inventory management and data dashboard.

Calibration

- Lion Laboratories Ltd confirm that the instrument is stable for a period of 12 months. However, if the instrument is in frequent use, a monthly or quarterly calibration check is recommended.
- Dry Gas or Wet Simulator Solutions must be used for calibration.
- Automatic barometric correction for dry/pressurised gas calibration and calibration checks.

Certification & Approval

lion alcolmeter® 900 is certified to EN15964 & IP54

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Technical Details

Measurement range	0.00mg/L breath (BrAC) 3.00mg/L breath (BrAC)	Minimum Maximum
Measurement Accuracy	$\pm 0.02\text{mg/L} \leq 0.300\text{mg/L}$ $\pm 10\%$ above 0.20mg/L	In Active Mode only
Measurement step	0.01mg/L	0.001mg/L in metrological mode
Response time	Less than 10 seconds	0.25mg/L alcohol level
Recovery time	Less than 30 seconds	0.25mg/L alcohol level
Sampling frequency	Less than 10 seconds	Negative test result
Operating temperature	-5°C 40°C	Minimum Maximum
Ready time	Less than 5 seconds Under 60 seconds	From switch on at 20°C From switch on at -5°C
Operating humidity	20% to 95%	Non-condensing
Storage temperature	-20°C 70°C	Minimum Maximum
Trigger Flow	9L/min	In active test mode only
Trigger Volume	1.2L	In active test mode only
Power supply	4 x 'AA' Alkaline batteries	RPU Power Pack Optional Accessory
Number of tests	8000 on a set of batteries	Zero alcohol repeat tests
Database capacity	10000 records	Rolling database
Instrument weight	210g	325g With batteries
Dimensions	210mm x 75mm x 45mm	