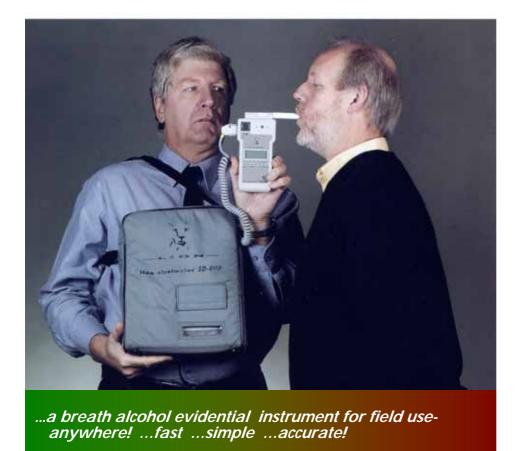
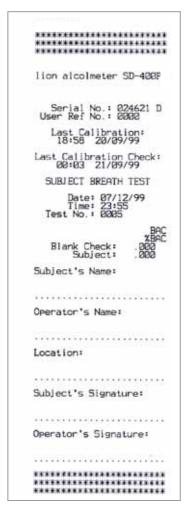
# lion alcolmeter®SD-400





- **SIMPLE TO USE:** the **lion alcolmeter** \*SD-400 is fully automatic. This mean it's very simple to use, so training requirements are minimal.
- FAST, ACCURATE ANALYSIS: using the Lion *fuel cell* sensor. This ensures high specificity to alcohol, and a long stable working life.
- EASY TO READ DISPLAY: alcohol reading are shown on a large illuminated display. Four indicator lights inform instruct the operator. Pass/Fail display upon request.
- CONFIGURATION: operating parameters may be set meet the user's needs.
- INTEGRAL PRINTER: delivers a comprehensive test record with alcohol readings, test number, serial number, date and times, Names, signatures and the location are then entered by hand. The printout is available in various languages: customization on request.
- LAST TEST RECALL: the result of the last breath test can be recalled and reprinted, even if the instrument has since been switched off.
- SHOULDER-BAG OR CARRY-CASE: the 400 comes housed in a soft water-resistant shoulder bag as standard. However, a hard, water-proof carry-case (fitted to carry an AlcoCal® alcohol standard) is also available as an alternative option.
- AUTOMATIC DATA COLLECTION: alcohol readings are stored in memory, with date and time. This data can then be
  downloaded to a printer or PC
- CALIBRATION SECURITY: by means of a 'dongle' electronic key.
- APPROVALS: Approved by law enforcement authorities worldwide, for evidential testing.





## Simple Operating Procedure



ONE BUTTOM SWITCH ON SELF CHECK ATTACH MOUTHPIECE



INSTRUCT THE SUBJECT BREATH SAMPLE PROVIDED



NOTE ALCOHOL READING



**OBTAIN PRINTOUT** 

# **Specifications and Features**

- Fuel Cell Sensor: high specification to alcohol, unaffected by other possible breath contaminants
- Warm-up Time: the instrument is ready for use within 15 seconds of switch on, at any temperature.
- Measuring Range: normally 0.00 to 2.00 mg/litre BrAC or 0 400 mg% BAC.
- Breath Sampling System: deep lung breath sampling or passive sampling.
- Analytical Response Time: normally within 30 seconds; but within 5 seconds at zero alcohol levels.
- Analytical Precision & Accuracy: ±0.01 mg/litre BrAC or ±2 mg% BAC
- Display: four digit, illuminated LCD
- Alcohol Unit: Blood Alcohol (BAC); mg/100ml (mg%)
- Date and Time: each test result is stored with date and time [internal battery backed].
- Memory Capacity: 500 tests as standard, expandable up to 5,000.
- Audible indicator: beeper signals fault conditions and changes in instrument status.
- Instrument Status: four light emitting diodes indicate current status.
- Communication: RS-232 serial interface to printer or personal computer for test data transfer.
- Memory Function: stores more than 500 test results including date and time, reprints last breath test and store test
  can be download to optional printer or PC
- Recalibration: at least every six months, using either a wet-bath simulator or AlcoCal® gas standard.
- Recovery Times: typically 10 seconds at zero alcohol; 60 seconds at 0.35 mg/litre BrAC; 4 minutes at 2.00 mg/litre BrAC.
- **Temperature Range:** from 5°C to +40°C for optimum operation.
- 400 Power Supply: 5 AA alkaline batteries give at least 3,000 breath tests.
- Radio Frequency Immunity: exceeds requirement of EN 50082-1.
- Shock/Vibration: impact resistant ABS: meets IEC 68-2-27 Part 2.1 Test EA and IEC 68-2-6 Part 2.1 Test FC.
- Dimensions and Weight: 80mm(w) x 39mm(d) x 169mm(h) instrument only; approximately 525 grams.
- Optional Accessories: printer, carrying bag, printer cable, PC link cable or plastic case.

#### **Accessory Items**

- Disposable Mouthpiece: low resistance to breath flow; individually and hygienically wrapped.
- Reusable Sampling Cup: an alternative to the mouthpiece, for rapid subject sampling and turnover, such as at a Police roadblock or factory gate.
- Handbook: a range of handbooks covering all aspects of use of the instrument and accessories

### **Accessory PC Software**

 Data-400<sup>tm</sup>: retrieve test data from the instrument's memory and store it on your PC's hard disk; then export to any standard database or spreadsheet program. Operates under MS Windows.

Supplied with connector cable and full instruments.







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