lion alcolmeter® SD-400P

...a breath alcohol evidential instrument for field use - anywhere!   ...fast ...simple ...accurate!
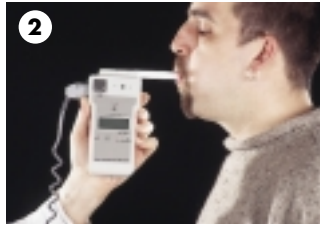
Instrument Features

- **SIMPLE TO USE:** the **lion alcolmeter® SD-400P** is fully automatic.   This means 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 readings are shown on a large illuminated display. Four indicator lights inform and instruct the operator.

- **INTEGRAL PRINTER:** delivers a comprehensive test record - with alcohol readings, date and times. Names, signatures and the location are then entered by hand. The printout is available in various languages: customisation on request.

- **CONFIGURATION:** operating parameters may be set to meet the user's needs.

- **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 **400P** 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!

1

SWITCH ON: SELF CHECK: ATTACH MOUTHPIECE

2

INSTRUCT THE SUBJECT: BREATH SAMPLE PROVIDED

3

NOTE ALCOHOL READING

4

OBTAIN PRINTOUT

Specifications and Features

- **Fuel Cell Sensor:** high specificity 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 0.02 to 2.00mg/litre BrAC. An overrange indication is given at higher levels.
- **Analytical Response Time:** normally within 30 seconds; but within 5 seconds at zero alcohol levels.
- **Date and Time:** each test result is stored with date and time [internal battery backed].
- **Temperature Range:** from -5˚C to +40˚C, for optimum operation.
- **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 0.35mg/litre BrAC; 4 minutes at 2.00mg/litre.
- **Memory Capacity:** 500 tests as standard, expandable up to 5,000.
- **Print Copies per Charge:** approximately 120.
- **Printer Recharging Time:** approximately 14 hours.
- **Print Copies per Paper Roll:** approximately 120.
- **400 Power Supply:** 5 new AA cells give at least 3,000 breath tests. Two stage low power warning system.
- **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:**   *Shoulder Bag:* 250 x 330 x 130mm;   2.5Kg [complete with contents].
     Hard Carry Case: 460 x 380 x 170mm;   5.5Kg [complete with contents].

Accessory Items

- **Disposable Mouthpieces:** 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.

- **Rechargeable Power Unit [for 400 instrument]:** with 220 volts AC/12volts DC intelligent charger.

- **Vehicle Power Unit:** powers the **400** from a vehicle's 12 volt DC supply [via the cigarette lighter socket].

- **Handbooks:** a range of handbooks covering all aspects of use of the instrument and accessories.

- **Protective Leather Pouch:** protects the **400** instrument and fits inside the carry case or bag.

Accessory PC Software

- **Data-400™ :** 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 instructions.

- **DataMac-400™ :** the same application as for **Data-400™**, but used in Apple Macintosh PC's

  Supplied with connector cable and full instructions.