

# lion alcolmeter® 500



## Functional

- Lightweight yet robust, ergonomic design
- Simple two button operation
- Two AAA batteries provide power for approx 400 tests

## Proven

- Tried and tested lion fuel-cell technology
- Police variant now in use by UK forces
- Used by law enforcement agencies across Europe, Far East and the Americas



## Versatile

- Back-lit graphics display
- Allows Zero/Pass/Warn/Fail results, numerical values ( $\mu\text{g}/100\text{ml}$ ), or both



## Practical

- Uses same calibration and check gases as S-L2 and SL-400
- Supplied with high visibility leather case



## Dependable

- Lion Quality
- Lion Reputation
- Lion Service
- Lion Support



# TECHNICAL SPECIFICATIONS

- **ANALYTICAL PRINCIPLE:** Lion fuel cell sensor for alcohol analysis. Unaffected by acetone, hydrocarbons, non-alcoholic food and drug vapours, and all other likely breath contaminants.
- **MEASURING RANGE:** 2 to 200µg/100ml BrAc. An over-range indication is given at higher levels.
- **BREATH SAMPLING:** automatically samples deep lung air. An optional manual override feature may also be used, if required.
- **ANALYTICAL RESPONSE TIME:** normally within 30seconds, but within 5 seconds at the 'zero' alcohol level.
- **RECOVERY TIME:** approximately 100 seconds at 0.50mg/l.
- **OPERATING TEMPERATURE :** -5 to +40°C.
- **STORAGE TEMPERATURE:** -20 to +65°C.
- **POWER SUPPLY:** two AAA cells provide sufficient power for around 400 breath tests. Two stage low power warning system.
- **HUMIDITY:** 10 to 95%, non-condensing.
- **BAROMETRIC PRESSURE:** 600 to 1,300hPa.
- **CALIBRATION:** adjustment should not be required more frequently than every 6 months, using either a wet-bath simulator, or an AlcoCal<sup>®</sup> dry-gas standard.
- **DISPLAY:** LCD graphics, dimensions 45mm x 21 mm, 128 x 64 pixels, with backlighting.
- **AUDIBLE BEEPER:** gives auxiliary warning messages.
- **MICROCONTROLLER:** H8/3664.
- **MEMORY:** the last test is stored in memory for later recall if required.
- **WARM-UP TIME:** the instrument is not heated, therefore no warm-up time.
- **DISPOSABLE MOUTHPIECE:** disposable 'pressure' tube, the same as used with the S-D2/S-L2.
- **RFI CERTIFICATION:** exceeds requirements of EN 50081-1 : 1992 (emission) and EN 50082-1 : 1997 (immunity). Meets ACPO/FSS requirements regarding TETRA and mobile phones.
- **VIBRATION AND SHOCK:** meets IEC 68-2-27 Part 2.1 Test EA: and IEC 68-2-6 Part 2.1 Test FC.
- **CASE CONSTRUCTION:** impact resistant ABS.
- **SOFTWARE CONFIGURATION:** various software settings may be configured by users with supervisor status.
- **DIMENSIONS:** 125mm x 654mm x 15mm.
- **WEIGHT:** approximately 140g, including batteries.