



ALCOHOL COUNTERMEASURE SYSTEMS

SERES ETHYLOMETRE 679 SE



Breath Alcohol Tester



When quality is paramount, the SERES ETHYLOMETRE 679 SE infrared evidential alcohol tester is our most sophisticated model with an accuracy range of 0.01 mg/l. The 679 SE conforms to the French X20-701 and OIML specifications.

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Measuring Principle

The Seres Ethylometre 679 SE is based on the absorption of infrared radiation focused at 9.5 microns by the ethyl alcohol molecule. This wavelength was chosen for its characteristic - OH bond that makes the analyser insensitive to potential interferences such as water vapour, acetone, carbon dioxide, hydrocarbons, solvents, and other gases.

Outstanding Features

- Lightweight and robust compact analyser
- The 679 SE can be operated directly from a 12 VDC battery pack via the car cigarette-lighter and optionally from a 230 VAC external converter
- Self-contained, portable unit with a built-in transport case
- One button operation
- Infrared light absorption technology that has proven its efficiency with over 5000 instruments in operation worldwide

Conformity

- Conforms to O.I.M.L. R126
- Conforms to French standard AFNOR X20-701

Warranty

ACS breath alcohol testers are warranted to be free from defects in workmanship and material for one year from the date of purchase. It is recommended that only qualified Technicians perform maintenance of any breath alcohol tester.



Specifications

Size & Weight:	40cm x 32cm x 16cm – 7 kg
Measuring Cycle:	Conforming to OIML regulations: operation auto-control, alveolar air measurement, detection of alcohol in mouth, cleaning of the measuring chamber with active charcoal filtered air
Infrared Source:	Designed for light emission at 9.5 microns heated silica base (no aging)
Measuring Range:	0 – 2.00 mg/L alcohol in exhaled air
Measuring Unit:	mg/L, µg/L in breath; µg/dL, g/dL, g/L in blood
Measurement Frequency:	Less than 1 min. between two consecutive tests but depends on custom software requirements
Accuracy:	0.01 mg/L
Repeatability:	Standard deviation less than 0.002 mg
Ambient Temperature:	0°C to 50°C
Warm Up Time:	5 to 12 minutes, from start up depending on ambient conditions
Display:	20-characters alpha-numerical, backlit LCD
Mouthpiece:	Integrated saliva trap, in alimentary plastic individual waterproof sealed wrapping
Printer:	Integrated built-in roll-printer on option
Output & Data Storage:	RS232C & built-in memory on option
Keyboard:	Alpha-numerical keyboard interface, external keyboard on option
Power Supply:	Internal 12VDC/external converter for mains supply 230VAC/50Hz (110VAC/60Hz on option)
Power Consumption:	40 to 80 W