

THE INDUSTRY LEADER IN ALCOHOL BREATH TESTING SINCE 1945

ALCO-SENSOR IV-XL **@Point of Arrest System**



Intoximeters Inc.

Alco-Sensor IV-XL @Point of Arrest System

THE INSTRUMENT

The Alco-Sensor IV-XL with @Point of Arrest System is a comprehensive, automated, portable, evidential breath alcohol testing system that combines a hand held computer with a state of the art hand held breath alcohol analyzer. The system provides a simple, accurate and economical method of determining a subject's breath/blood alcohol level and is capable of printing and electronically storing test data and results.

UNIQUE FEATURES

A step-by-step program makes collection of test information on the hand held computer straightforward. Data entry is simplified by a keyboard and touch-screen display. Test data entered on the hand held computer is easily transferred to the Alco-Sensor IV-XL through wireless, infrared communication.

The Alco-Sensor IV-XL follows a program driven test procedure which includes quality assurance review and auto disable if the Quality Assurance requirements are not met. Each function is displayed on an LED panel providing the operator with step-by-step instructions for fail-safe testing. The Alco-Sensor IV-XL automatically samples deep lung breath, displays results and stores the test data in memory for upload to a computer and printer through wireless, infrared communication.

ANALYTICAL

Sensor

The electrochemical fuel cell sensor generates an electronic response that is proportional to the Breath Alcohol Concentration (BrAC) in the provided breath sample.

Accuracy & Precision

Approved by the US DOT (NHTSA) for evidential use. The ASIV-XL utilizes an Intoximeters patented analytical routine which provides the highest level of accuracy and precision offered in fuel cell instrumentation.

Specificity

The fuel cell sensor is specific for alcohol. It does not respond to acetone or other substances which are found in human breath after a 15-minute deprivation period.

Linear Range of Sensor

The Alco-Sensor IV-XL accurately detects breath alcohol levels up to .400 BrAC.

Response Time

The instrument responds within 5-10 seconds on negative samples and within 20 - 45 seconds on positive samples.

Environmental

Operates over a wide ambient temperature range: -20°C to 40°C.

SAMPLING SYSTEM

The patented analytical system permits automatic sampling of deep lung breath. The instrument will record volume of breath and duration of the breath sample provided.

QUALITY ASSURANCE AND CALIBRATION

Calibration Checks are required after a programmable number of tests have been performed and/or a programmable number of days have been exceeded. Calibration and Accuracy Checks should be performed with either a National Highway Traffic Safety Administration's (NHTSA) approved wet bath simulator or an approved dry gas standard. Calibration and Accuracy Check routines are automated and documented when uploaded to the compatible @Point of Arrest Software program.

SAMPLING REQUIREMENTS

Sample Error Detection

The software monitored diagnostic system ensures proper battery power, proper instrument temperature, proper attachment of the mouthpiece, successful instrument pretest blank, the delivery of a "deep lung" breath specimen and no detectable RFI before automatically taking a sample of breath and reporting a result.

Mouthpiece

The disposable one-way check valve mouthpiece is individually wrapped and can be automatically ejected from the ASIV-XL eliminating the need for operator contact and reducing the possibility of disease transmission.

(Note: Use only mouthpieces manufactured or approved by Intoximeters. Using other mouthpieces may cause damage to the instrument and/or influence the accuracy of test results. Use of unapproved mouthpieces will void the instrument warranty).

ELECTRICAL REQUIREMENTS

Power Supply/Capacity

9 volt alkaline battery for Alco-Sensor IV-XL, 500+ tests per battery; Low Battery Indicator included in software. Built-in rechargeable battery for the printer and the hand held computer. Both can be recharged via 110 VAC or 12 VDC.

A 12-volt adapter is optional.

SIZE & WEIGHT / CONSTRUCTION

Physical Characteristics

Alco-Sensor IV-XL - Hand held (11 oz)
Total Package with Carrying Case – 10 lbs.
16 11/16"L x 13 1/16"W x 4 3/8"D (OD)

Case Construction

Alco-Sensor IV-XL - ABS plastic with built in RFI shielding. Carrying case is a watertight Pelican hard case.

MEMORY/COMMUNICATIONS

Data Storage

ASIV-XL stores up to 10,000 test records. Memory full warning indicator built into software.

Display

Four character alpha-numeric LED display.

Communications

Infrared communication between the Alco-Sensor IV-XL and hand held computer. Built in modem communications from the hand held computer to central database.

Options

IntoxNet Software is an optional program that allows the networking of a series of systems into one database for centralized storage and reporting.

Note: The above specifications reflect the operating characteristics for our standard production Alco-Sensor IV-XL @POA. The instrument can be configured to perform under different tolerances upon request.

Intoximeters Inc.