

Intoximeters

Experience • Service • Integrity



Alco-Sensor FST®

Evidential-grade, handheld breath alcohol tester with a patented rear-facing display designed for officer safety

Made in the U.S.A.

Since 1945, Intoximeters, Inc., the oldest operating breath alcohol instrument manufacturer in the world, has been manufacturing the highest quality instrumentation to assist in DUI enforcement.

Since the 1970's, the Alco-Sensor® line of handheld breath alcohol detectors has defined and has been at the forefront of innovation in the handheld breath alcohol analyzer market. With over 500,000 instruments placed into service, Intoximeters has an advantage over its competitors. We have market knowledge and experience acquired through the customer feedback from more than 70 years in business.

Intoximeters, Inc. developed the first evidential grade fuel cell based breath alcohol analytical system. We have been the pioneer in improving the fuel cell sensor's stability and longevity. Data shows that our instruments are the highest quality analytical sensors available in the law enforcement market today, and our records indicate that we offer the longest lasting fuel cell sensors available.

Handheld breath test devices are often used in an uncontrolled environment. Frequently they are enlisted at the side of the road, most often at night and sometimes with a combative suspect. Designing the device to be easy to use with a form factor and operating protocol that reduces danger to the operator was a need that Intoximeters identified and met.

The following features of the Alco-Sensor FST are some of the reasons we have sold more evidential handheld breath alcohol detection instruments than all other manufacturers combined:

Fuel Cell Performance:

- Highest quality instruments for accuracy and precision available
- Longest lived fuel cells available in the market today

Officer Safety Features:

- Patented Rear Facing Display –
 - allows the operator to view the instrument's display while remaining in control of the subject and monitoring the surrounding environment.
 - orients the subject in a manner that s/he is away from the officers sidearm
- Lighted Mouthpiece Guide – Assists in attaching the mouthpiece in low light conditions
- Unique Lever and Snap mouthpiece:
 - makes proper mouthpiece installations quick and easy
 - diverts the subject's breath away from the operator during the sample collection process.

A Variety of Testing Methods:

- Direct Subject Testing with Automatic and/or Manual Sampling
- Passive Testing Mode with Automatic and/or Manual Sampling
- Manual Sampling the headspace of an open container for alcohol content

Sure-grip™ Sleeve:

- Soft Touch surface for reliable, comfortable grip
- Enhanced impact resistance
- Includes a display lens that offers additional protection for the display
- Includes magnets within the sleeve to adhere the device to the frame of the police vehicle, if not the hood. This reduces the likelihood of loss or damage in the midst of an arrest.
- Easy change battery access design makes changing batteries while the grip is on simple and quick.

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Analytical System

Utilizes an Intoximeters electrochemical fuel cell sensor which generates an electrical response that is proportional to the Breath Alcohol Concentration in the provided, fixed volume sample. The fuel cell sensor is highly selective for alcohol. It does not respond to acetone or other substances found in the human breath after a fifteen minute deprivation period.

Measurement Types

Direct Test / Manual Sample
Direct Test / Automatic Sample
Passive Test / Manual Sample
Passive Test / Automatic Sample
Headspace Test / Manual Sample

Measurement Range

.000 to .440 g/210L (custom ranges and units of measure are available)

Accuracy and Precision

Meets the NHTSA model specifications for Evidential Breath Test Devices

Environmental Limitations

Instrument is designed to be used, and has a proven track record in almost any environment that law enforcement could expose breath alcohol testing instruments to. Instrument operates in a wide range of temperatures, ambient humidity, and ambient pressures.

Mouthpiece

Direct Sample - The Intoximeters-designed mouthpiece provides both a "lever and snap" alignment for simple installation and provides a tested and proven mouthpiece that produces accurate and repeatable results.
Passive Sample - Passive cup adapter
Headspace Sample - drink sniffer adapter

Visual Output

Easy to read backlit, multi-colored graphic display and lighted mouthpiece guide

Audio Output

Audible tone to support visual messaging

Data Storage

Last test

Power Options

Disposable Batteries - 2 1.5V AA alkaline batteries
Optional Rechargeable Batteries - 2 NiMH batteries (battery charger sold separately)

Case Construction

Instrument - ABS/Polycarbonate with a yellow rubber Sure-grip™ sleeve. The Sure-grip™ sleeve is also available, upon request, in black or blue.
Carrying Case - Blow molded plastic case is provided in standard package

Physical

Instrument Dimensions - 4.75" x 2.75" x 1.75"
Instrument Weight (with batteries) - 0.47 lbs
Standard Carrying Case Dimensions - 7" x 3.5" x 9"
Standard Carrying Case Weight (loaded) - 1.3 lbs

Approvals

NHTSA (US DOT) EBT, Inquire for list of approved US States or certifications in countries outside of the USA. CE Mark

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Magnets on both sides of the instrument strongly adhere to ferrous metal surfaces such as a car, to prevent instrument loss during the heat of an arrest.



Standard Package Includes

eManual
25 Mouthpieces
Magnets on both sides of instrument sleeve
Access to online web-based training

Training

Access to online web-based training with instrument serial number.