

# Lifeloc

TECHNOLOGIES



Since 1983, Lifeloc Technologies has provided advanced alcohol testing equipment and training for law enforcement, medical, industrial, and transportation professionals. Lifeloc is a trusted global leader in economical breath alcohol testing equipment, new products, technology innovation, and Five Star customer care.

Our FC (FUEL CELL) Series and LifeGuard breath alcohol testers use advanced platinum fuel cells. These instruments surpass United States government performance standards and are also certified in many countries around the world.

Trust an industry leader. Trust Lifeloc



## Unlock the Power of Alcohol & Drug Testing

[www.lifeloc.com](http://www.lifeloc.com)

# WHY CHOOSE LIFELOC?

Lifeloc partners with private and public organizations of all types in the development of alcohol and drug testing programs. We are experts in breath alcohol testing for law enforcement, medical, security, transportation, aviation, mining, petroleum, and many other industries around the world. Lifeloc products are designed, engineered and manufactured in the United States to the highest quality standards.

Lifeloc manufactures precision platinum fuel cell devices for professional and personal use devices. We do not offer semi-conductor alcohol testers because of their inherent inaccuracy and inconsistency.

Lifeloc products are currently used in over 60 countries. We support our international customers through a global network of knowledgeable local distributors.



**Fuel Cell vs Semiconductor: A Study**  
Semiconductor breath alcohol sensing technology is acceptable for detecting the presence of alcohol in human breath but has never been approved or cleared by any U.S. regulatory agency including the Department of Transportation (DOT) and the Food and Drug Administration (FDA) for the accurate measure of breath alcohol content (BAC). Semiconductor technology is not found in professional breath alcohol testers where measurement accuracy and precision are critical, such as in Law Enforcement and Workplace testing.

## LIFELOC IS INTERNATIONALLY RECOGNIZED FOR:

### Product Innovation

- Advanced features
- Customizable software
- Wireless computer interfaces
- Data management solutions
- Affordable pricing

### Precision Instruments

- Full sized platinum fuel cell
- Precision breath sampling system
- Rapid & repeatable test taking
- Fastest response times
- Wide operating temperature

### Ease of Use

- Automatic operation
- Menu selectable features
- Easy to understand prompts with full text alerts
- Rugged design
- Long battery life



U.S. DOT  
National Highway  
Traffic Safety  
Administration



# PROFESSIONAL AND INDUSTRIAL SOLUTIONS

## FC5 Hornet

The economical FC5 Hornet from Lifeloc Technologies is a new generation of alcohol screener for use in zero tolerance environments such as schools, traffic police, probation, jails, mining and related safety sensitive industries. Screening for the presence of alcohol has never been easier. No mouthpieces or special attachments are required. Using icons to eliminate misinterpretation due to language barriers, the FC5 Hornet is simple to learn, operate and read.

The three test modes allows the operator to control the testing process on subjects, ambient air and open containers. The device comes with a protective safety-yellow silicone jacket to guard against bumps and falls plus a crushproof carry case and can be easily concealed in a purse or pocket.



## FC5 Hornet Comparison



### FC5 HORNET

### ALCOSCAN

### ALCOBLOW

Testing has never been easier. No mouthpieces or special attachments are required. Uses an LCD display with icons eliminating misinterpretation due to language barriers. Automatic operation.

Uses 3 LED lights, Green, Amber and Red to display the alcohol levels which can lead to operator misinterpretation and confusion. Manual triggering with required for all testing.

Automatically triggered only when the subject is 1" from the cone blowing straight on. Holding at an angle can cause difficulty triggering tests. LED lights provide results to the user.

# PROFESSIONAL AND INDUSTRIAL SOLUTIONS

## Lifeloc FC Series

### Product Innovation

- Advanced Feature Set
- Customizable Software
- Password Protection & Lockout Features
- AlcoMark® Software Compatible
- Data Management Solutions

### Precision Instruments

- Platinum Fuel Cell with lifetime warranty
- Superior Pump Sampling System
- Rapid & Repeatable Test Taking
- Fastest Response Times
- Widest Operating Temperature
- Built-In Barometric Pressure Sensor (optional on FC20 and FC20BT)

### Ease of Use

- Automatic Operation
- Menu Selectable Features
- Easy to Understand Prompts with Full Text Alerts
- Sturdy & Rugged Design
- Long Battery Life

### Five Star Customer Care

- Live, Onsite Technical Support
- Fast Repairs, 5 days or less
- Comprehensive Service Packages
- Affordable Product, Solutions & Supplies
- All Product Manufactured & Serviced Responsibly in USA



Unit Comparison	FC5	FC10	FC10 <sup>Plus</sup>	FC20	FC20BT
Platinum Fuel Cell with lifetime warranty	✓	✓	✓	✓	✓
Battery Status Indicator & Warnings	✓	✓	✓	✓	✓
Long Battery Life (# of tests)	4700	6000	6000	6000	1900
4 AA Alkaline or NiMH Rechargeable Batteries	✓	✓	✓	✓	✓
Superior Pump Sampling	✓	✓	✓	✓	✓
Backlit LCD Screen	✓	✓	✓	✓	✓
Chart Alcohol Curve	✓	✓	✓	✓	✓
≤ 10 sec. response time	✓	✓	✓	✓	✓
≤ 30 sec. recovery time	✓	✓	✓	✓	✓
Drop Standards: IEC 68-2-32	✓	✓	✓	✓	✓
Shock Standards: IEC 68-2-27 & IEC 68-2-29	✓	✓	✓	✓	✓
Vibration Standards: IEC 68-2-6	✓	✓	✓	✓	✓
Size: 2.6" x 5" x 1.25"	✓	✓	✓	✓	✓
Weight: 8 oz. (226 grams)	✓	✓	✓	✓	✓
Protective Silicone Grip	✓	✓	✓	✓	✓
Best in Class Operating Temperature 32° - 130°F (0° - 55°C)	✓	✓	✓	✓	✓
User Selectable Test Mode	✓	✓	✓	✓	✓
Temperature Lockout	✓	✓	✓	✓	✓
Automatic Self Diagnostics	✓	✓	✓	✓	✓
Auto Shut-Off	✓	✓	✓	✓	✓
Icon Driven User Interface	✓				
Passive Testing	✓	✓	✓	✓	✓
Automatic Testing		✓	✓	✓	✓
Multi-Language Capabilities		✓	✓	✓	✓
Breath Flow Graph		✓	✓	✓	✓
Detection Range: .000 to .600 BAC		✓	✓	✓	✓
Accuracy: ± .005 to .100 BAC, ± 5% between .100 to .400 BAC		✓	✓	✓	✓
DOT/NHTSA Approved		✓	✓	✓	✓
On Board Test Memory			100	4000	4000
Results Display: BAC or Pass, Warn, Fail			✓	✓	✓
Real Time Clock			✓	✓	✓
Password Protection			✓	✓	✓
Cal/Cal Check Reminder			✓	✓	✓
Cal/Cal Check Lockout			✓	✓	✓
Remaining Tests or Time before Lockout			✓	✓	✓
Display Breath Flow Volume in Liters while Blowing			✓	✓	✓
AlcoMark® Software Compatible			✓	✓	✓
Data Input Fields				✓	✓
Printing Capability				✓	✓
Barometric Pressure Sensor (optional)				✓	✓
Bluetooth Communication Indicator Light					✓
Wireless Printing Capability					✓
Wireless Keyboard Capability					✓
Bluetooth Connectivity					✓
Bluetooth Communication with Other Devices (Custom)					✓

# PROFESSIONAL AND INDUSTRIAL SOLUTIONS

## Data Management System

The DMS Kit marks a significant step forward in breath alcohol testing. A fully integrated solution, the Lifeloc FC20 DMS Kit\* combines the power of the FC20 breath alcohol tester with convenient keyboard data entry, printing and storage of your subject's alcohol testing data.



FC20BT DMS



FC20 DMS

\*Available with cabled or wireless communications.

## AlcoMark® Breath Testing Management Software

A total system approach to managing your breath alcohol test and calibration data. With AlcoMark you can use your PC to print, sort, edit or save your data. The perfect tool for analyzing and archiving your results.



AlcoMark also provides remote diagnostic capability, allowing your breath testing equipment to communicate directly with Lifeloc Technical Support in order to easily diagnose and quickly resolve any issues.

### Features

- Upload breath test and calibration results into database
- Customize database view
- Print test and calibration results directly from AlcoMark
- Export data to Excel, XML and Text files
- Search, sort and filter results for data analysis
- Archive test and calibration results
- Remote diagnostics

# PROFESSIONAL AND INDUSTRIAL SOLUTIONS

## EASYCAL® DOT Approved Automatic Calibration Station



In the department, lab or on the road, cal-checks and calibrations are accurate, effortless and worry-free. EASYCAL® lowers your cost of ownership through lower gas usage and time savings. EASYCAL® takes the fear out of calibration and cal-checks by reducing human error through automation and security, which prevents users from performing the wrong operation and locking down settings. And like your Lifeloc PBT, EASYCAL® is engineered with Lifeloc accuracy and reliability. Breath Tester compliance has never been this easy.

### Compliance Management Features

- Cylinder Expiry Lockout prevents the use of out-of-date gas.
- Gas Standard Override averts mismatch of gas standard with alcohol tester.
- Low Gas Alert warns of low gas volume and shows percent tank remaining.
- Auto Altitude Correction automatically checks and sets altitude correction factors.
- Security allows you to assign, enable or disable users and passwords.
- Sequence Software ensures all calibrations finish with an automatic calibration check.
- PBT Serial Numbers are read and stored with each cal event.
- Print Log stores all checks and calibrations across unlimited breath alcohol testers.

### Fast and Simple to Use

- One-touch calibration and calibration checks.
- Large color touchscreen for easy navigation.
- Prints to your Lifeloc Printer.
- Lab, office and mobile operation.
- Reduces gas usage up to 50% versus manual cal/cal-checks.
- Up to 5X faster calibrations than the competition.
- Displays date, time, and power status.
- Calibration and cal-check progress bar.

Display	Full Color Digital LCD Resistive Touchscreen
Cylinder Size	Industry Standard 34 L and 105 L Dry Gas Cylinders*
Available Gas Standards	.04, .08, .100**
EBT Seat Sensor	Ensures Proper Device Seating
Cylinder Pressure Sensor	Automatically checks tank volume
Barometric Pressure Sensor	Automatically Corrects Altitude
Recovery Time	Immediate
Calibration Time	< 2 minutes
Calibration Check Time	< 30 seconds
Operating Temperature Range	68°F - 95°F (20°C - 35°C)
User Selectable Power Options	110/220 Volt auto-switching power supply or 4 AA Lithium Batteries
Power Save Feature	Auto Shutoff
Dimensions	Approx. 9.9" L x 8.5" W x 3.5" D (251 x 216 x 89 mm)
Weight	3 Pounds (48 ounces, 1360 grams)
Printer Communication Standard	Thermal, IR (PermAffix) and Bluetooth
Software Updates	USB
Record Memory	250 Records before Overwrite
Unit of Measure	BAC Standard International UOM Available
Language	English Standard Additional Languages Available.
Date/Time	User Selectable International Date and Time Formats
Certifications	CE
Housing	Ruggedized ABS Antimicrobial Plastic
Warranty	1 year Limited Parts and Labor

\* Due to the cylinder size, an adapter is required when using the 105 L cylinders.

\*\*Other Common Standards Available Upon Request

# PROFESSIONAL AND INDUSTRIAL SOLUTIONS

## Accessories for Lifeloc Breath Alcohol Testers

### EasyTab™ Mouthpiece



All Lifeloc Mouthpieces feature our EasyTab™ mouthpiece ejector which prevents the operator having to touch the “wet” end of a used mouthpiece. As an additional safeguard, our mouthpieces channel breath flow away from the operator for user comfort and good hygiene. EasyTab™ Mouthpieces are used with the following Lifeloc breath alcohol testers: FC10, FC10*Plus*, FC20, and FC20BT.

### Wet Bath Calibration Kit

Wet Bath Calibration Kit, includes Digital Simulator, 6 bottles of solution, calibration pump, and calibration adapter.



### Certified Calibration Solution

Ready to use premixed solution for use with all of Lifeloc’s wet bath calibration simulators. NIST\* traceable standards are used to provide optimal accuracy and results. Available as single bottle or 6-pack.

### Dry Gas Calibration Kits

An economical option, the Lifeloc Dry Gas Calibration Kits offer superior performance and accuracy. All of Lifeloc dry gas tanks are NIST\* traceable and work with all of Lifeloc’s breath alcohol testers. Available in either 34L or 105L.

**Note: Not available in all countries, please contact your local distributor.**



### Thermal Printer Upgrade

Includes thermal printer, printer charger, printer cable.



### Thermalast™ Printer Paper



“Thermalast” thermal imaging paper is laboratory tested to maintain image quality up to 20 years in normal office conditions. “Thermalast” is coated on the front and the back for image sharpness and durability and will not fade or darken when stored or exposed to long term office conditions. 4 rolls per pack.

\*National Institute of Standards and Technology

## Impairment Goggles



Let the innovative Drunk Buster goggles help you create the most effective alcohol and drug awareness programs.

Using a specially crafted lens, the Drunk Buster alcohol and drug impairment goggles allow you to simulate the effects of alcohol consumption and drug impairment on your body.

Easy to use, simply slip the goggles over your head and you'll begin to experience the simulated effects of impairment.

Symptoms include reduced alertness, slowed reaction time, confusion, visual distortion, alteration of depth and distance perception, reduction of peripheral vision, double vision, and lack of muscular coordination.

The Drunk Buster goggles are now being used in over 72 different countries creating the perfect solution for drunk driving prevention, drug and alcohol awareness programs and driver education classrooms.

### Daytime Goggles



Part # 14401: .04 - .06 BAC (.19 - .28 mg/L)  
Part # 14403: .08 - .15 BAC (.38 - .71 mg/L)  
Part # 14405: .26 - .35 BAC (1.24 - 1.66 mg/L)

### Nighttime Goggles



Part # 14402: .06 - .08 BAC (.28 - .38 mg/L)  
Part # 14404: .15 - .25 BAC (.71 - 1.19 mg/L)

### Drug Impairment Goggles



Part # 14406: Drug Impairment  
Part # 14409: Cannabis Impairment

### Red Eye Goggles



Part # 14408: Red Eye

### Sleep Deprivation Goggles



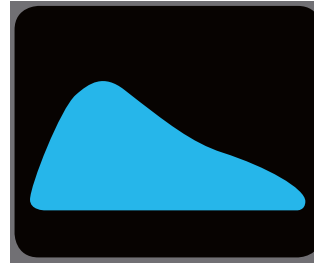
Part # 14407: Sleep Deprivation



# PERSONAL SOLUTIONS & ACCESSORIES

## Why Buy The LifeGuard?

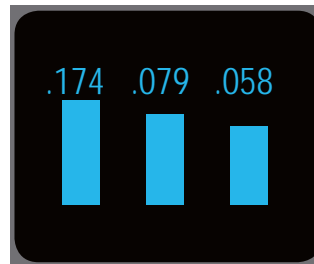
- **Alcohol Specific.** LifeGuard is always and only alcohol specific. Common semiconductor devices can give positive readings even when no alcohol is present.
- **BAC Management.** LifeGuard charts your last three test results so that you can visually confirm whether your Blood Alcohol Content (BAC) is rising or falling. Wide range of units of measure available.
- **Reliable.** The combination of long working life, BAC management, alcohol specificity and high accuracy adds up to a device that can be trusted.
- **Accurate.** LifeGuard uses the same fuel cell technology that we use in our law enforcement breathalyzers. No other portable breath tester is more accurate.
- **Easy to Use.** LifeGuard prompts you with easy to understand icons on a high resolution screen.
- **Economical.** Cheaper semiconductor units are not as accurate and have a shorter life expectancy, making the LifeGuard much more economical in the long run.



**See the alcohol curve**  
Instantly see how much alcohol is in your breath



**3-digit BAC readout**  
Accuracy to the thousandths of a percent



**3 chart graph**  
Trend your last three test results to see if your BAC is rising or falling



The permanent mouthpiece folds into the unit for storage and transport



Sensor	Electrochemical Fuel Cell
Accuracy	+/- .005 BAC up to .100 BAC +5% above .100 BAC +0.02mg/l up to 0.47mg/l +5% above 0.47mg/l
Units of Measure	BAC (Breath Alcohol Content), Promille, mg/l, g/l, others available
Power	9V alkaline battery
Battery Life	Up to 1200 tests
Display	High Resolution Graphic Display
Size	31.7 mm X 63.6 mm x 127 mm (1.25" x 2.5" x 5")
Weight	w/Battery 5oz (142 grams)
Warranty	1 year limited warranty
Mouthpiece	Permanent and Disposable (both included)
Storage	Nylon Sleeve and Hard Shell Carrying Case
Manufacture	Made in the USA by Lifeloc Technologies, Inc.

## LifeGuard Accessories



Personal Mouthpiece



Disposable Mouthpiece



Protective Boot



Carrying Case

# DRUG TESTING WITH EASE

## Drug Testing Products

For over 25 years, Lifeloc Technologies has manufactured precision alcohol testing equipment. Our reputation for superior quality, ease of use, and outstanding service has never been stronger.

Lifeloc now offers an extensive range of drug screening products to complement our precision alcohol testers. Manufactured to the highest quality specifications, you will find everything you need from urine collection cups, oral fluids detectors to drug testing supplies.

### Split Key Specimen Cup

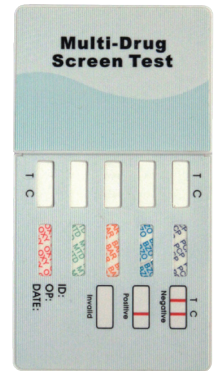
With a unique drug test cup design, the split cup eliminates urine handling and donor tampering, providing a simple solution to drug collection. The perfect solution for non-negative drug tests, the split cup uses a push button trigger that transfers 2ml of specimen into a separate testing chamber allowing you to send the remaining sample to the lab for verification. The push system also acts as a trigger mechanism for the instant drug test allowing the collector to be in complete control.



CE

### Drug Testing Dip Card

Dip cards are a fast, accurate and innovative solution for onsite urine testing. The easy to use dip card tests for multiple drugs on a single device. Negative test results appear within 1-2 minutes. Available in multiple configurations.



CE

### Oral Fluid Swab

Oral Fluids clinical drug of abuse test provides quick, non-evasive specimen collection using saliva from your donor's mouth. Tests for Cocaine, Amphetamine, Methamphetamine, Marijuana, Benzodiazepine, and Opiates.

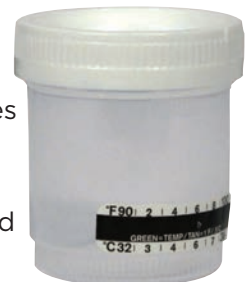
**\*Not for sale in USA.**



CE

### Collection Cup

Durable, leak proof specimen cup for urine collection and testing. Each cup measures both US ounces and millimeters and comes with a tamper evident seal and temperature strip. The screw top lid provides a tight seal making shipping a snap.



**Contact Lifeloc or your local distributor for additional product information.**

## BreathScan Disposable Alcohol Testers

BreathScan® is a reliable, single-use, breath alcohol detector. It provides convenient, non-invasive alcohol screening and detection on the job, at home or anywhere you go. Easy to carry and simple to use, and alcohol specific.

- Squeeze tube to break ampoule and activate the crystals
- Blow through the tube
- Get your result

If BreathScan® detects the presence of alcohol in an individual's breath, the crystals will change color.



# INDUSTRIAL ALCOHOL TESTING

## Sentinel™ Breath Alcohol Screening Entry System



Product Features	
<b>Entry System</b>	Designed to work with turnstiles, entry booths, time clocks and many other gate or entry access devices
<b>Passive Testing</b>	Screens for the presence of alcohol in a subject. The test is automatically triggered as the subject blows towards the designated port. No Mouthpieces Required. Low Cost Per Test.
<b>Rapid Repeatability</b>	Instant response on NEG tests, under 10 seconds on POS tests. The Sentinel™ is capable of taking hundreds of tests per hour.
<b>Rugged Housing</b>	Anodized aluminum construction designed to protect against dust and vibration
<b>Remote Updating</b>	System is field upgradable using the internal USB interface
<b>Serviceability</b>	Calibrate the unit without opening the device or taking it off the wall. Sentinel has modular components for easy in-field replacements.
<b>Communication</b>	Uses a full color LCD screen along with easy to understand icons to clearly communicate with the subject. There is no user interpretation.

The SENTINEL™ Alcohol Screening System enables high volume “zero tolerance” screening of employees, visitors or contractors in safety sensitive industries such as Mining, Transportation, Construction and Oil & Gas.

SENTINEL™ alcohol monitoring is fast, totally automated, and completely non-invasive. Tests are triggered automatically by blowing at the breath collector cone. No mouthpieces, straws or test supervision is required. SENTINEL™ uses internationally recognizable color icons to prompt subjects to blow and to display test results. There are no buttons to push or lights to interpret. Subject training or pre-qualification is unnecessary.

The system can be stand-alone or be sequenced with existing turnstiles, time clocks and other access control systems. Annual calibration and service is performed without having to take the SENTINEL™ out of service.

# INDUSTRIAL ALCOHOL TESTING

Unlock the power of the ATS 500, the automated and connected alcohol testing system.

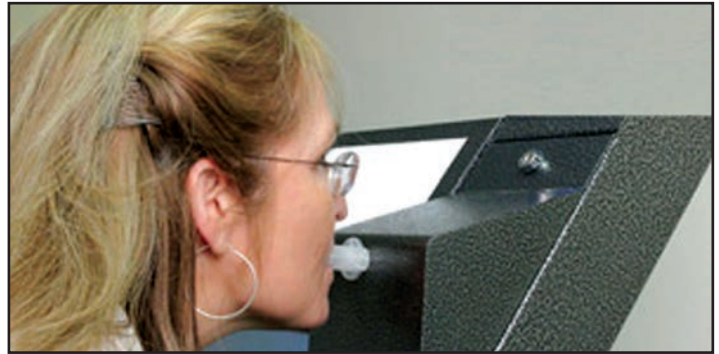
Verify identity, manage information and take accurate breath alcohol tests, in one networked solution. The ATS 500 is designed specifically for environments that demand security and accountability.

Automate breath alcohol testing in high traffic environments. The client simply checks-in using the touchscreen on the front of the kiosk and is then prompted through the testing procedure. The breath alcohol tester is housed inside the kiosk and provides both passive and direct testing. Depending on the configuration you choose, the kiosk can take a picture or video of the subject as well as register their fingerprint for verification. The kiosk can feed test information via wireless or Ethernet connection to a server and database. Once the information is sent, e-mail alerts can be automated if client tests positive.



## Available Features

Dimensions	Customized sizes available
Material	Powder Coated Steel
Screen	various sizes available, all are full touch screen
Computer	customized for memory and speed requirements
Image Capture	still and video available
Speakers	inquire for list of options
Biometric Measurement	fingerprint or voice recognition available
Currency Acceptor	cash or credit card available
Networking	WiFi and Ethernet options available
Data Input	automated barcode reader and keyboard available
Power	various current configurations and battery backup available
Printing	Thermal receipts available Contact Lifeloc for additional options per custom requirements



# Lifeloc

## TECHNOLOGIES

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