

INDUSTRY TESTING

Digital Alcohol Breathalyzer Machine

Smart Safety Solution: Ensure workplace security instantly with the most accurate Digital Alcohol Breathalyzer Machine in Bangladesh. This portable device uses advanced sensors to give reliable results in seconds, making it perfect for office, factory, and security teams.

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Official Brochure



SOLUTION SNAPSHOT

INSTANT BAC TESTING	WORKPLACE SAFETY MANAGEMENT	ON-THE-SPOT PRINTING
AUTOMATED DATA HISTORY	SAFE & HYGIENIC USE	LONG BATTERY LIFE

Built for Real Operations

Smart Safety Solution: Ensure workplace security instantly with the most accurate Digital Alcohol Breathalyzer Machine in Bangladesh. This portable device uses advanced sensors to give reliable results in seconds, making it perfect for office, factory, and security teams.

CAPABILITIES

Key Features & Product Modules

High Precision Fuel Cell Sensor

This is the core heart of the device that instantly detects alcohol molecules from the deeply exhaled breath. It uses advanced electrochemical technology that only reacts to alcohol, completely ignoring other elements like smoke or coffee, ensuring zero false results.

Intelligent Microcontroller Unit

It acts as the smart brain of the machine, processing raw data from the sensor and calculating the exact BAC level within seconds. This powerful microchip runs on an optimized modern algorithm to deliver ultra-fast, stable, and error free computations every single time.

Smart Air-Sampling Pump System

It automatically draws a continuous and precise volume of deep lung breath into the sensor chamber for analysis. It makes sure the user cannot cheat the test by blowing too softly or too hard, giving a fair and accurate measurement.

Direct Integrated Thermal Printer

It prints out physical test receipts right on the spot with real-time text data. Built with durable, inkless thermal technology, it operates without messy ink cartridges, making official record-keeping incredibly clean and effortless.

High Capacity Rechargeable Lithium-Ion Battery

It supplies steady, long-lasting power to the entire electronic system during field operations. Equipped with modern circuit protection, it prevents overheating and handles thousands of quick tests on a single charge via a standard Type-C port.

Anti Backflow Hygienic Mouthpieces

These are specially designed detachable blow tubes through which the individual blows into the machine. The unique one-way valve prevents any saliva or reverse airflow from entering the device, maintaining 100% hygiene and protecting the internal sensor.

Heavy Duty Industrial ABS Enclosure

It forms the rugged outer shell and protective sliding body that shields all sensitive internal electronics. It is built with high-grade, shock-absorbing material that protects the device from accidental drops, dust, and rough handling in busy industrial zones.

Backlit High Definition Graphical Display

It clearly displays the testing steps, final digital numbers, and status warnings in real time. This bright, energy-efficient screen ensures crisp readability under direct sunlight as well as in complete darkness during night-shift duty.

Where This Product Fits



Factory and Construction Site Safety Check



Roadside Alcohol Testing on Highway



Bus Driver Safety Sobriety Check



Clinical Alcohol Testing by Doctor



Night Traffic Checkpoint Safety Test

OPERATIONAL VALUE

Software, Benefits & Outcomes

Real Time Data Synchronization Engine

This core module automatically syncs every test result from the device to your central system instantly.

- View alcohol test records online the exact second a worker or driver blows into the machine.
- Saves all test logs securely in a central database, completely eliminating the risk of lost paperwork.
- Monitor multiple breathalyzer devices across different locations or checkpoints from a single dashboard.

Smart Employee & Driver Profiling System

It links test results directly to individual worker or driver profiles for easy identification.

- Instantly connects test data with employee names, photos, and ID numbers to prevent identity cheating.
- Track the sobriety patterns of specific drivers or workers over days, weeks, or months.
- Automatically flags individuals who repeatedly fail tests, helping you catch high-risk personnel early.

One Click Analytical Reporting & Insights

This reporting tool converts raw test numbers into professional, readable safety reports.

- Generate and download official PDF or Excel compliance reports with just a single click.
- Displays easy-to-understand graphs showing daily pass/fail rates and peak violation hours.
- Provides clean, tamper-proof digital records that serve as strong evidence for corporate safety audits.

Q. How accurate is this digital alcohol tester?

A. Our breathalyzer uses professional-grade sensors. It provides high-precision results that are trusted for law enforcement and industrial safety standards.

Q. Can many people use the same device?

A. Yes. It comes with multiple replaceable mouthpieces. You can change the tip after every test to keep it clean and safe for everyone.

Q. Does it work at night or in dark places?

A. Yes, the device has a bright digital display. You can easily read the results even at night or in low-light environments.

Q. Is it easy to carry for field operations?

A. Absolutely. It is lightweight and compact. It comes with a protective carrying case, making it very easy for mobile teams to carry.

Ready to deploy Digital Alcohol Breathalyzer Machine?

Talk to Nirikhon for product consultation, installation planning, integration support, and enterprise deployment.

Hotline: 01712345678 | Website: www.nirikhon.com