

# CREW MANAGEMENT SYSTEM

CREW MANAGEMENT SYSTEM (CMS) solution with Alcohol analyzers in bus transport systems are crucial for ensuring the safety of passengers, drivers, and other road users by detecting alcohol impairment in bus drivers. They help maintain high standards of safety, comply with legal requirements, and prevent accidents due to alcohol consumption.



The CMS software is Industry standard software using middle ware and integrating devices, hardware components and LAN/WAN network components. The business transactions are transacted so as to provide timely information with increased productivity and reduced paper work to a great extent at the lobby locations. The CMS system is being implemented by ADDISOFT in the Railways Lobbies locations(Location where Railways crew are booked) with touch screen along with biometric devices for Sign-On/Off of crew from their duties. BA (Breathalyzer) capabilities are being integrated in to the Kiosks. It is very important from the point of view of safety running of the train wherein the crew blows air from his mouth into the Breath Analyzer (BA) device to find alcohol content inside the body before duty is joined.



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## Features of CMS with Alcohol Analyzers for Bus Transport Systems:

### 1. Accurate BAC Detection:

- Alcohol analyzers use advanced sensor technologies (such as electrochemical, fuel-cell, or semiconductor sensors) to measure Blood Alcohol Content (BAC) levels accurately from a driver's breath.
- These devices provide precise and reliable readings, ensuring that impaired drivers are detected before they begin operating the bus.

### 2. Real-Time Alcohol Monitoring:

- CMS systems are capable of continuous alcohol monitoring, allowing for real-time detection of alcohol levels. If a driver consumes alcohol during their shift, the system can immediately identify the issue.

### 3. Breathalyzer Interface:

- The devices are typically designed with a breath analyser interface, where the driver blows into the device to determine their BAC. The system provides a quick, easy-to-understand reading, indicating whether the driver is fit to drive.

### 4. Data Logging and Reporting:

- Alcohol analyzers can store data, including BAC test results, timestamps, and driver details, for compliance and auditing purposes. This data is vital for regulatory inspections and can be used to track alcohol-related incidents. Data can be accessed by management or monitoring authorities for review and decision-making.

### 5. Tamper-Resistant and Secure:

- Alcohol analyzers are designed to be tamper-proof, preventing the device from being bypassed or altered. This ensures the reliability of the results and maintains system integrity.

### 6. Compliance with Safety Regulations:

- Alcohol analyzers are built to meet local, national, and international alcohol-testing standards in the transport industry, ensuring that bus transport systems remain compliant with legal requirements.



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## Benefits of CMS with Alcohol Analyzers for Bus Transport Systems:

### 1. Improved Passenger Safety:

- Alcohol analyzers significantly reduce the risk of accidents caused by alcohol-impaired driving. Ensuring that bus drivers are sober before operating their vehicles directly protects the safety of passengers, pedestrians, and other road users.

### 2. Compliance with Legal and Regulatory Standards:

- Alcohol analyzers help bus companies comply with alcohol testing regulations, which are often mandatory in many regions for commercial drivers. Compliance reduces the risk of legal penalties, fines, and the suspension of operating licenses.

### 3. Reduced Risk of Accidents:

- By ensuring that drivers are not under the influence of alcohol, the analyzer prevents alcohol-related accidents, which could otherwise result in serious injuries or fatalities, both for the driver and passengers.

### 4. Enhanced Company Reputation:

- Bus transport systems that implement alcohol monitoring programs demonstrate their commitment to safety and responsibility, improving their reputation with passengers, regulatory authorities, and the general public.

### 5. Prevention of Driver Impairment:

- Alcohol analyzers act as a preventative measure, reducing the likelihood of drivers attempting to operate buses while under the influence. Knowing that they will be tested may deter alcohol consumption in the first place.

### 6. Increased Accountability and Responsibility:

- Bus drivers are more likely to adhere to safety protocols when they know alcohol testing is in place. It promotes a culture of responsibility within the company, ensuring that drivers understand the importance of staying sober while operating public transport.

### 7. Accurate and Unbiased Testing:

- Alcohol analyzers provide objective, evidence-based results for alcohol testing, removing human error or subjective judgment from the process. This makes the process more transparent and reliable.

### 8. Protection Against Legal Liabilities:

- With alcohol analyzers in place, a bus company can show proof of due diligence in ensuring drivers are fit to operate buses, potentially protecting the company from legal liabilities if an alcohol-related incident were to occur.

### 9. Supports Driver Health and Well-being:

- Regular alcohol testing helps foster a health-conscious and professional environment. It discourages alcohol misuse and helps promote the physical and mental well-being of drivers.

### 10. Cost Savings from Reduced Accidents:

- By preventing accidents that could lead to vehicle damage, medical costs, and legal fees, alcohol analyzers contribute to substantial cost savings for bus transport operators.

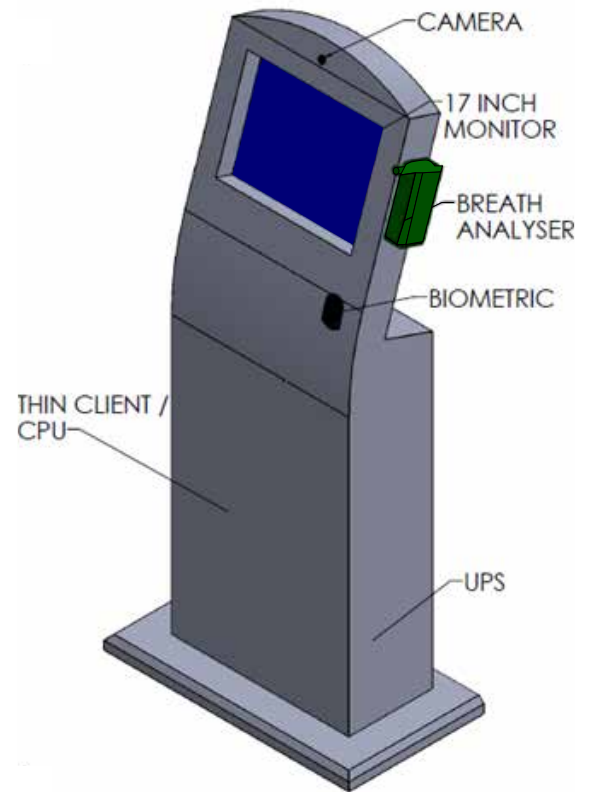
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## (CMS) KIOSK TECHNICAL SPECIFICATIONS

Enclosure	Mild Steel Cabinet with Powder coated finish, Wall/Floor mount
Display	17" Monitor with PCT touch screen
Processor	The kiosk shall have provision for providing thin client such that thin client is rigidly secured within KIOSK
BA device mounting	Breath Analyzer device completely concealed inside the kiosk, with only a small hole visible for fitment of the BA mouthpiece.
Biometric device	Bio metric device completely concealed inside the kiosk with only a small area open for placement of the finger.
Camera	Camera integrated inside the kiosk for capturing image of the crew during operation
UPS	The kiosk shall have provision for providing UPS such UPS client is rigidly secured within KIOSK
Keyboard and mouse tray	KIOSK shall have slide out tray for keeping key board and mouse.



## ADDISOFT TECHNOLOGIES LIMITED

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