AUM - PEMS

Ultimate Solution for Real Drive Emission Monitoring



AUM - PEMS
(Air Unique-quality Monitor Pollution Emission
Monitoring System)

AUM PEMS - A single photonic system monitoring Real Drive Emission, capturing Registration Plate/Number, as well as Speed and Acceleration of the Vehicle.

FEATURES

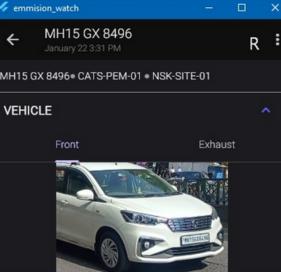
- Integration Of Cutting-edge Technologies:
 - LASER Backscattering
 - ●Big Data & Al
 - •loT (Internet of Things)
- Real-time Monitoring Of Various
 Parameters like Gases, Opacity, as
 well as Meteorological Data
- Portable and Compact.
- Low Power Consumption.
- Low Maintenance, One-time Calibration.
- Cloud-based Big Data Analytics and Streaming for Global Access.
- Precision in Emission
 Monitoring: AUM PEMS offers
 versatile gas monitoring, precisely
 measuring Hydrocarbons, CO, NO,
 NH3, CO2, SO2, CH4, NO2, PM2.5
 and PM10 within specified ranges,
 meeting the highest regulatory
 standards.
- Rugged Design: AUM PEMS withstands shocks, vibrations, temperature fluctuations, air pressure changes, and electromagnetic interferences.

- Regulatory Compliance & Comprehensive Monitoring: AUM PEMS meets BHARAT/Euro Stage VI and AIS 170 standards, providing real-time tracking for strict regulatory adherence.
- Effortless Vehicle
 Identification: AUM PEMS
 employs Automatic License Plate
 Recognition (ALPR), a specialized
 OCR technology, capturing
 moving vehicle registration
 plates for applications like car
 parking control, toll collection,
 and vehicle tracking, as well as
 speed and acceleration of the
 vehicle.
- GPS and Time-Stamped: Each emission data point is GPS and time-stamped, offering precise location and temporal information.
- **Trend Analysis:** Analyzes historical data trends for each pollutant, aiding decision-making and policy adjustments.





AUM-PEMS CATSMART BIG DATA



- **Seamless Connectivity:** CATSMART's Big Data analytical software integrates effortlessly with AUM_PEMS, providing a user-friendly interface for extensive data analysis.
- **Dashboard Overview:** Interactive dashboard providing information of each and every vehicle.
- Vahaan Portal Integration: Ensure regulatory compliance and streamlined reporting by integrating seamlessly with the Vahaan Portal through API.
- **Communication Integration:** Integrate communication protocols such as SMS and emails for efficient data dissemination.
- Security Assurance: Robust default controls for data integrity and confidentiality. Opacity

