



Online Pollution Monitoring

Powered by

DATOMS™

An **Online Pollution Monitoring Tool** which **monitors, accumulates, analyses and predicts** vital information about industrial effluents and emissions effectively

DATOMS™

for

Online Environment Monitoring Tool

Stack Monitoring Systems, Ambient Air Quality Monitoring Systems and Effluent Monitoring Systems are installed in the Industries to comply with the statutory requirements of the SPCB and the CPCB. Transmitting devices are connected to these monitoring systems to continuously send the monitored data to cloud server for cumulative storage.



Air Pollution Monitoring



Stack Monitoring



Effluent



The stored data is then accessed to facilitate statistical Pollution information on any device with a working internet connection.

Introduction of this solution helps industries to reduce frequent on-site visits and reduce operational costs for maintaining the analysers.

Parameters

Effluent

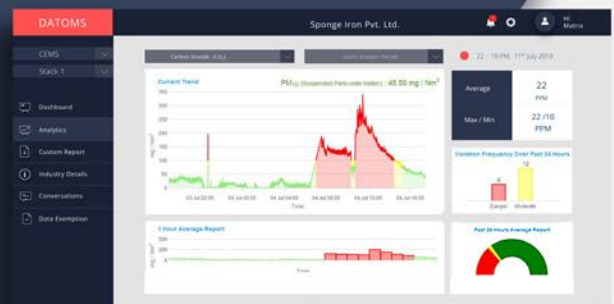
- Total Suspended Solid
- PH
- Biological Oxygen Demand
- Chemical Oxygen Demand
- Flow Rate

Stack

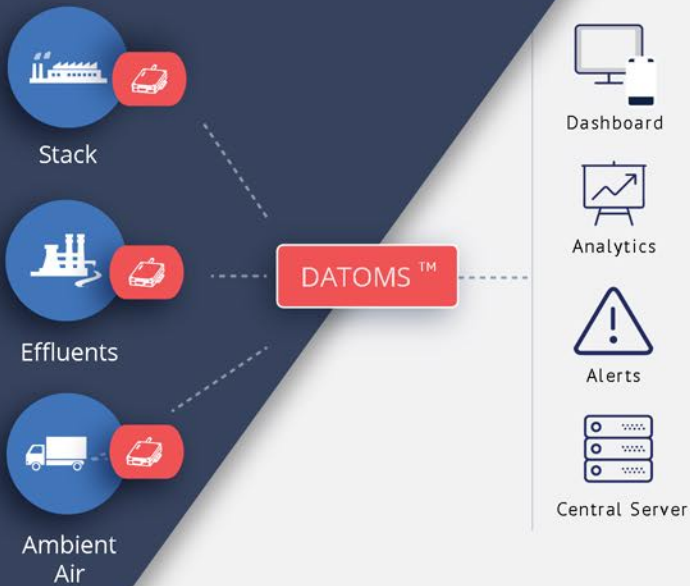
- CO - Carbon Monoxide
- CO₂ - Carbon Dioxide
- NO₂ - Nitrogen Dioxide
- SO₂ - Sulphur Dioxide
- SPM - Suspended Particulate Matter

Ambient

- PM10 - Particulate Matter
- PM2.5 - Particulate Matter
- SO₂ - Sulphur Dioxide
- NOx - Oxides of Nitrogen
- CO - Carbon Monoxide
- O₃ - Ozone



How it Works



Various sensors are connected to analysers to monitor the pollution parameters in industries. Transmitters are connected to these analysers in order to gather pollution data through standard industrial protocols. The transmitters send the data to the cloud server using secure encryption standards maintaining the authenticity. The data is stored at the cloud server for real-time and easy access. The pollution information can be easily accessed and visualized through an interactive online Web Interface and Mobile Application.

Features



Real-Time Dashboards

Representation of analysed data through different statistical tools like bar graphs, line graphs, pie charts, etc. to enable easy and proactive visualization.



Intelligent Vigilance & Alarm

Round the clock monitoring with efficient alarm system to detect and warn any deviations from the national standards under a variety of environmental laws.



Customized Analytics

Date-wise access and visualization of statistical pollution information to draw informed and wise conclusions for dynamic pollution management.



User Management

Highly secure and unique user access and functionalities for different hierarchy of employees in the industries.



Device Diagnostics

Automatic detection of device malfunction followed by remote configuration and calibration without the need for installed location visits every time.



Flexible API

Standard APIs to integrate the data in third party websites and mobile apps for wider sharing of pollution information to improve transparency.

About Us

Phoenix Robotix Pvt. Ltd. strives to innovate, create and deliver on Internet of Things (IoT) and Wireless Sensor Networks (WSN) for Industries and Smart Cities. We aim to be a pioneer in software integrated hardware solutions to eliminate real-world problems of Industries and Cities by bringing People, Government and Industries closer.



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