



GPMS



**GPMS TECHNOLOGY
PRIVATE LIMITED**



**REALTIME DATA
TRANSMISSION &
CEMS SERVICES**




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ABOUT US

The advancement of technology has comforted human life in various aspects but this is accompanied with fast deterioration of environment, keeping the life on planet earth at stake . There are a wide range of emerging technologies to ameliorate the situation caused by industrial pollution. As yet, there is very little performance data available for large-scale industrial applications of such technologies.



GPMS focuses on providing quality services to enable our customers to perceive their actual necessities, this is made possible by expanding our multiple tasking engineering by, leveraging its cutting edge technology to bring the best quality service.

GPMS stands tall in India as a trusted vendor of gas analyzers, gas detectors ,dew point meters, particulate monitors, stack gas analyzers.

Our approach revolves around One Stop Solution to all the pollution measurement, analysis & transmission. We also provide an IOT solution, that captures real time data from a wide spectrum of sensors and analyzers and ensures its storage as timestamped data in big database.

Analytics

- Effluent Quality Monitoring
- Continuous Emission Monitoring
- Portable Flue Gas Analyzers
- Ambient Air Monitoring
- Gas Detection System
- Coal Analyzers

Measurement

- Flow for Liquid & Gas
- Level
- Temperature
- Moisture
- pH, COD, BOD, TSS
- Conductivity

OUR OFFERINGS

Projects

- Effluent Treatment Plants
- Sewage Treatment Plants
- Water Recycling Unit
- Zero Liquid Discharge

GPMS

GPMS provides the complete monitoring software solution to control the setup, communication, data transfer and verification. Reports can be generated automatically as Excel or PDF files.

EMISSION MONITORING SYSTEM



The gas analyzers are based on NDIR/UV DOAS, which measures simultaneous and continuous concentration of up to 5 gases components, have excellent prolonged stability, compact size and simple operation. The sensors with low impedance has excellent noise resistance while with no moveable parts, is impervious to vibration and virtually unaffected by the interference of moisture.



- ▶ Remote Calibration
- ▶ Data Normalization

Sample Handling & Conditioning System

Hot & Wet Extraction: Sample is extracted and maintained above dew point using heated sample line to avoid condensation. It is further cooled and moisture removed before analyzing.

Cold & Dry Extraction: Sample is extracted, cooled and moisture removed at the sampling point itself, transported to the analyzer using simple PTFE line.

PM ANALYZER FOR STACK EMISSION



EZ320 LBS



EZ320 TR

FEATURES

- ▶ In situ measurement directly in exhaust gas
- ▶ Modulated LED/Laser source for long term stability and immunity to ambient light
- ▶ In situ zero and calibration check facility
- ▶ Choice of interface option enabling easy integration
- ▶ Free utility software for PC based set-up, control and data logging.

BENEFITS

- ▶ Simple installation
- ▶ Better accuracy
- ▶ Rugged design with no moving parts so low maintenance
- ▶ Latched head and lid design to enable ease of access for installation and maintenance

THE TECHNOLOGY

The **EZ320 TR** is an optical instruments designed to measure dust, smoke and particulate concentration present in an exhaust gas in a duct or stack. It uses light transmission technique which measure change in the intensity of a light beam, using folded beam Transceiver/Reflector arrangement. Increased dust or particulate density in the stack causes the amplitude of the signal to increase.

EZ320 LBS is an online dust monitoring system, employing laser backward scattering principle. It is used for continuous monitoring of PM emission from stack, which are prone to vibrations and misalignment.

The monitor is used in the industries including thermal power plants, metal processing, petrochemical industry, cement production, waste incineration, flue gas emission monitoring in all kind of power generating boilers, industrial kilns and industrial boilers, monitoring and control in Flue Gas Desulphurization (FGD) and dust removal process.

AMBIENT AIR QUALITY MONITORING SYSTEM



PM_{2.5}, PM₁₀, SO₂, NO_x, CO & O₃



DustCount

Dustcount is an Online Particulate Monitoring System for Ambient applications. It is capable to monitor various particulate matter like PM₁, PM_{2.5} & PM₁₀. Dustcount is an ideal choice for applications like construction sites, mines, quarries, port, research projects, etc.

Poll-IQ

PollIQ is an Ambient Air Quality Monitoring System (AAQMS). It is capable to monitor PM_{2.5}, PM₁₀, SO₂, NO_x, CO, O₃ and many more.

OdoCount

Odocount is the Real-time Odour Emission Tracking Solution. Odocount detect, measures and monitors the odourful gases and gaseous contaminants on a continuous basis like Ammonia (NH₃), Hydrogen Sulfide (H₂S), Volatile Organic Compounds (TVOCs), Methyl Mercaptan (CH₃SH), Meteorological Parameters, and many more.

AQ1

AQ1 is an industrial grade single parameter air quality monitor with automation capabilities. This product range consists of critical parameters and toxic gases like Total Volatile Organic Compound (TVOC), Ammonia (NH₃), Hydrogen Sulfide (H₂S), Methane (CH₄), Carbon Monoxide (CO), Formaldehyde (CH₂O), Particulate Matter, Ambient Noise.

EFFLUENT MONITORING SYSTEM



COD/BOD/TSS/pH

The EZL600 Effluent Water Quality Analyzer have an integrated control unit and sensors/probes. It is designed for continuous online measurement of absorption spectra (UV-VIS Spectrophotometry). The analyzers can be operated either directly immersed in liquid media (In-situ) or in Extractive flow cell setup. It is capable of making a simultaneous measurement for various parameters and is perfect use for water quality measurement and inspection of river water, groundwater, effluent and municipal waste water etc.



EZ L600
Extractive(Cabinet Type)



EZ L600
In-situ(Probe Type)

FEATURE

- ▶ No reagents required, can save the cost of operation and avoid secondary pollution.
- ▶ Fast response, suitable for the application with high requirement of real time such as industrial process analysis.
- ▶ Built-in turbidity compensation function can keep the sensor from interference of chloride ion.
- ▶ Full spectrum (200 - 800nm) scanning and stoichiometry algorithm, can measure COD/BOD/TSS simultaneously.
- ▶ Availability of spectral data acquisition, convenient for data analysis and troubleshooting.
- ▶ Controller which can realize online calibration, setting adjustment, light intensity checking, auto cleaning, connect with sensors for other parameters.

FLOW METER AND DATA LOGGER



FLOWMETER

A flow meter (or a flow sensor) is type of flow instrument that is used to indicate the amount of liquid, gas, or vapor moving through a pipe or conduit by measuring linear, non-linear, mass, or volumetric flow rates. Since flow control is often essential, measuring the flow of liquids and gasses is a critical need for many industrial applications – and there are many different types of flow meters that can be utilized depending on the nature of the application.

Features

- Leak proof and sealed totalizer.
- Water Meter With Removable Mechanism for easy maintenance.
- Magnetic driven Class B.
- Lockable Metallic cover to protect totalizer.
- Confirms to ISO.



DATA LOGGER

Data loggers are electronic instruments that record information over a period of time for later use. They vary in accuracy and functionality. Parameters recorded include temperature, relative humidity, pressure, water level, voltage, current power, etc. You can determine what information to record based on your needs. We have a large selection of the latest data loggers to record all of your required parameters.

Features



- SD Memory capacities from 16 MB to 2 GB
- Transparently time and date stamps acquired data to facilitate data review and analysis.
- Multifunction push-button control.
- Allows simplified manual start/stop local control over the recording process.

REAL TIME MONITORING & DATA ANALYSIS

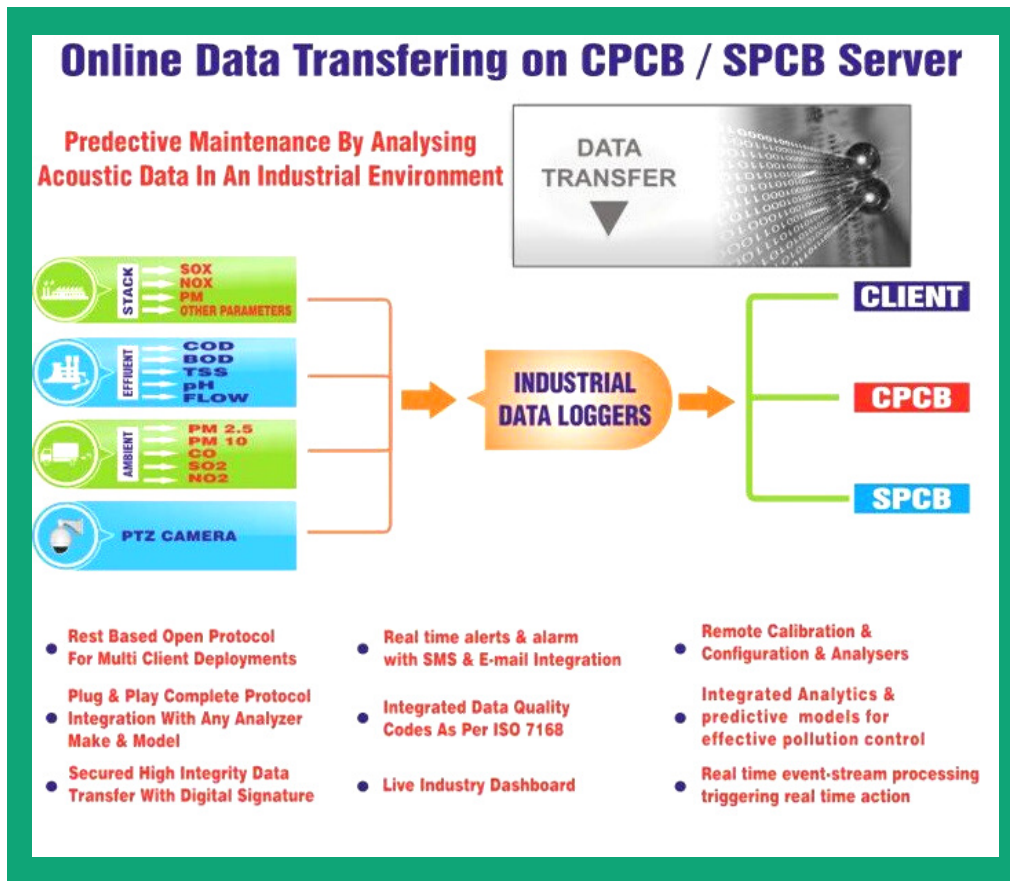
With rise in IOT and Cloud Computing, we present **GPMS as a Real Time Data Acquisition, Monitoring, Reporting and Analysis Software for environmental data. GPMS software captures real time data from a wide spectrum of sensors and analyzers and ensures its storage as timestamped data in big data database.**



After monitoring the environmental data, its analysis and visualization become essential to comprehend the entire scenario. Data can be presented in various forms depending upon the customer's requirements such as creating public awareness, statistical analysis, performing studies etc. Analytics helps to identify the root cause of the problem and suggest possible actions.

The primary purpose is to breakdown the complex environmental data to make it comprehensible for the consumer. The main functions include monitoring station configuration (sites, stations and analyzers), technical data management (data acquisition, normalization, validation, calibration etc.) ,data processing (data display, reporting) and advanced analytics (time-series analytics, forecasting, wind rose, pollution rose, Air Quality index etc.)

GPMS



REAL TIME DATA TRANSFER TO CPCB/ SPCB SERVER

THE BENEFITS



**CONNECT ANY
ANALYZER, ANY TIME,
ANY PROTOCOL**

- Hardware agnostic podium that caters linking any analyzer with any communication protocols.
- Automatic and Systematized device detection and Automatic M2M (Machine to Machine) Data Transmission and Connectivity.



**MONITOR & ACCESS
REAL TIME FOR
SOLUTION STRATEGY**

- Live site and geographical status with parameter monitoring
- Instantaneous SMS and Email Alerts & Automation for Timely Environmental Actions
- Real Time Data Integrity, Data Quality Monitoring and Data Validation



**DATA DRIVEN
ENVIRONMENTAL
AWARENESS**

- Custom report generation for daily, monthly or yearly reports in CSVs or PDF formats,
- Reports for exceedance, SMS and Email Alerts, Live or Delay Data reports
- Predictive Capabilities for Environmental Data Analytics & Forecasting, Pollution charts and AQI, time series forecasts

Features



CAQMS/ AQMS

- User can search “recent data”, “daily data”, “weekly data”, “monthly data” and “yearly data”.
- In advance search, the user can search for normal data, validated data, average data and exceeding data.
- Advance search have functionality of selection of Time Base from where the user can select 5 min, 10 min, 15 min, 30 min, 1 hr, 3 hrs, 4 hrs, 6 hrs, 8 hrs, 12 hrs and 24 hrs duration.
- Display of data will be in two forms, one is tabular and the second is graph and in graph one can show the results in Line, Bar, Column and Area Type.
- All the data can be converted into HTML, CSV and Excel format also.



Data Validation & Comments

- In this section three type of user will be created i.e. Industry, SPCB and CPCB.
- If any data is exceeding the prescribed standard, email is sent to the industry to comment on that parameter. The industry can put his comment and the validated data and post in the system.
- This will notify the SPCB and CPCB for their comments. The SPCB or CPCB can accept the clarification for change in data or reject it and can publish his own data in the system. If the real time data is changed it will be called “Validated Data”.
- So for all exceeding data, thread of communication is to be created so that one can see the trail.



Daily Reports & Alert System

- It has two components i.e. Parameter Wise and the Second is station wise.
- In both the cases daily, weekly, monthly and annually chart along with table can be prepared.
- The table is divided in 12 hour zone i.e. 00hrs to 12 hrs and then from 12 hrs to 24 hrs.
- Here an email alert can be sent to various user whenever the data is exceeding the limits, data is not populating etc.
- SMS can also be sent to the registered mobile number of the user.



Live Google Map

- Google Map configuration
- Labeling the actual location of the unit on Map
- Basic profile of the Unit and current / last updated data display

Why GPMS?



BEST MARKET PRICE



**HASSEL FREE
INSTALLATION**



**24*7 SUPPORT BY GPMS
TEAM**



**ENCRYPTED & SECURED
HIGH INTENSITY DATA
TRANSFER**



**LIVE DASHBOARD, REPORT
EXPORT FUNCTION IN CSV,
PDF FORMATS**



GPMS Technology Pvt. Ltd.

BUILDING A HEALTHIER ENVIRONMENTAL WORLD

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