ENVIROZONE®
PRIVATE LIMITED
MEASURE MONITOR MITIGATE

FORTUNEXIS
Automation Private Limited
INNOVATE AUTOMATE ELEVATE

ONLINE MONITORING SOLUTIONS

STACK EMISSIONS
AMBIENT AIR QUALITY
PROCESS ANALYZERS
WATER & WASTEWATER QUALITY

CSIR-NPLI CS Certified

TUV Rheinland Certified

TUV Nord Certified

TUV QAL1 Certified

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As Per CPCB Guidlines

MSME MICRO, SMALL & MEDIUM ENTERPRISES

MAKE IN INDIA

ISO 9001: 2015
ISO 14001: 2015

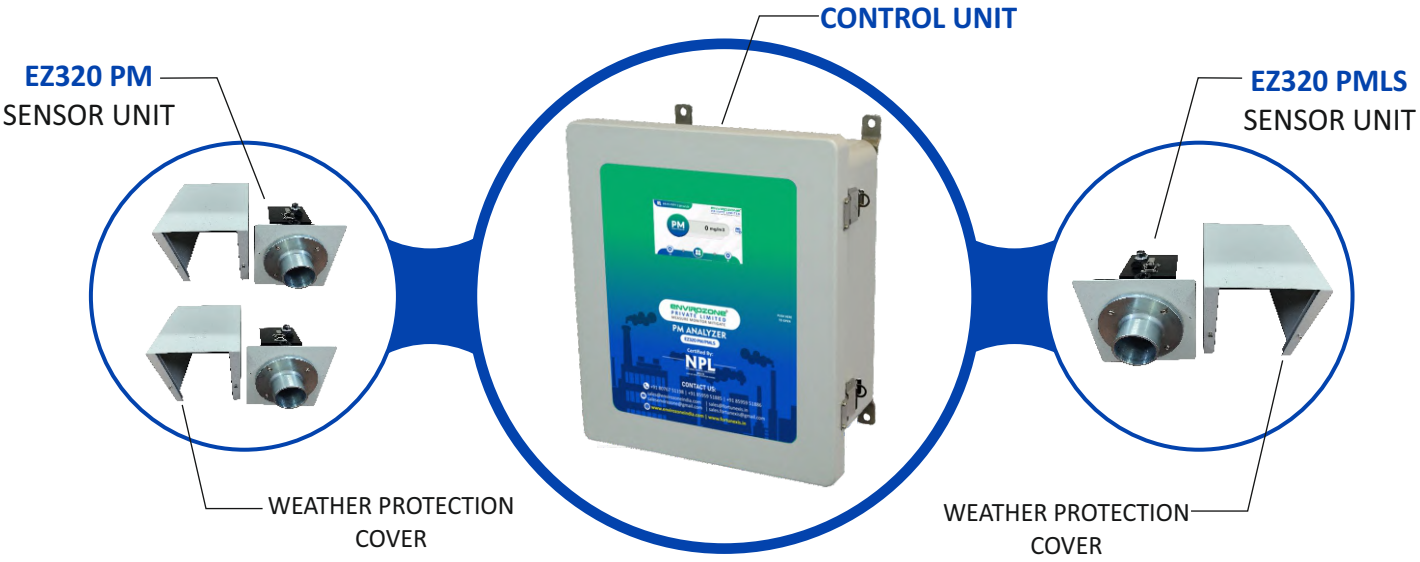
PM ANALYZER
FOR STACK EMISSIONS

EZ320 PM is an advanced in-situ particulate matter monitoring system designed for continuous and reliable measurement of dust concentration in industrial stacks and ducts. The analyzer operates on a dual-pass optical opacity principle, where a high-intensity light beam is transmitted across the stack and reflected back through a precision reflector. The attenuation of light caused by suspended particulate matter is accurately measured and converted into real-time dust concentration.

EZ320 PMLS is a next-generation single-sided particulate monitoring system that uses Laser Backward Scattering (LBS) technology for precise and reliable dust measurement. A high-stability laser beam interacts with particles in the gas stream, and the scattered light intensity is converted into particulate concentration.
Unlike transmissiometry systems, the PMLS analyzer requires only single-side installation, eliminating alignment complexity and reducing maintenance.

FEATURES

- Designed for industrial stack and duct applications
- High-accuracy measurement with stable performance
- Large 5” color capacitive touchscreen HMI for easy operation
- User-friendly interface with secure menu access
- Onboard SD card for automatic data logging
- Industrial communication outputs: RS485 (Modbus RTU)
- Isolated analog outputs: 4–20 mA
- Programmable relay alarms for safety and limit alerts.
- Rugged field-mounted sensor construction
- IP67 protected fiberglass reinforced enclosure
- Suitable for harsh industrial environments
- Compatible with PLC / DCS / SCADA systems
- Stable performance with minimal maintenance
- Long operational life with high reliability
- Easy installation and commissioning
- Designed for regulatory emission monitoring compliance

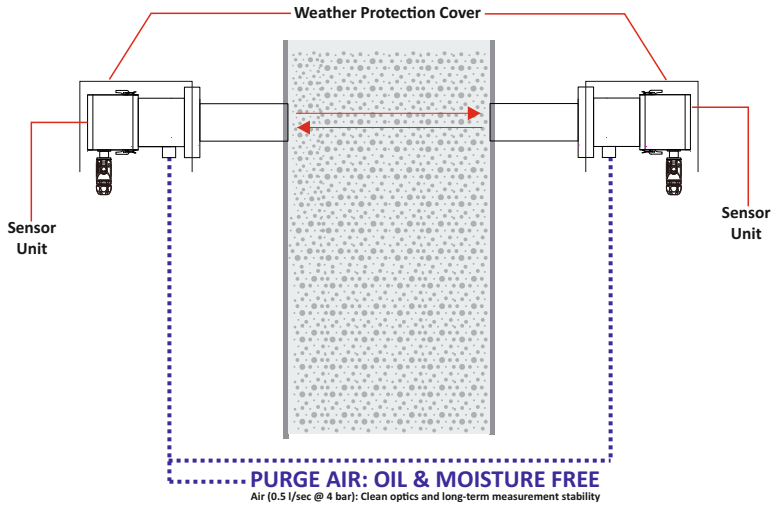


TECHNICAL SPECIFICATIONS

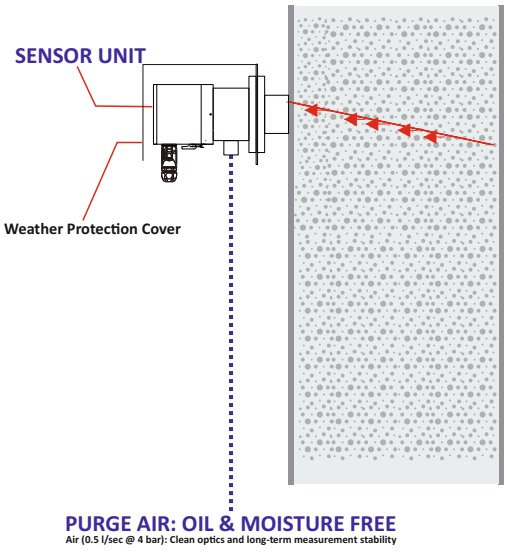
PM ANALYZERS

PARAMETER	EZ320 PM	EZ320 PMLS
Measurement Principle	Dual-Pass Transmissiometry	Laser Backward Scattering(LBS)
Measurement Type	In-situ Cross-Stack	In-situ Single-Sided
Measuring Range	0–1000 mg/m³ (Customizable)	
Accuracy	≤ ±10% of reference method	
Linearity	±1% Full Scale	
Zero Drift	≤ ±1% F.S. / week	
Span Drift	≤ ±1% F.S. / week	
Display	5” Color Capacitive Touchscreen HMI	
Data Storage	Internal SD Card	
Analog Output	4–20 mA (Isolated)	
Digital Output	RS485 Modbus RTU	
Alarm Output	Relay Contact	
Installation Requirement	180° Cross-Stack Alignment	Single-Side Mounting Only
Purge Air Requirement	Clean, Oil-Free Air (0.5 L/sec @ 4 bar)	
Power Supply	220 VAC, 50 Hz	
Operating Temperature	5°C to 45°C	
Enclosure Type	Fiberglass Reinforced Polyester	
Mounting	Wall / Pole Mount	
Protection Class	IP67	
Controller Dimensions	359 × 302 × 173 mm	

EZ320 PM



EZ320 PMLS



GAS ANALYZER
FOR STACK EMISSIONS

Our product portfolio offers a comprehensive range of advanced gas analyzers based on multiple sensing technologies. Each analyzer is purpose-built to deliver precise, reliable, and continuous gas measurement across diverse industrial and environmental applications. These analyzers support emission compliance, process optimization, and environmental monitoring with high accuracy and long-term operational stability.

Available Analyzer Technologies & Measured Parameters:

- **NDIR Analyzer** — CO, CO_2, SO_2, NO, etc.
- **UV-DOAS Analyzer** — SO_2, NO, NO_2, NH_3, O_3, Cl_2
- **Zirconia Analyzer** — Oxygen (O_2)

These analyzers are designed for continuous emission monitoring, process control, and environmental compliance across various industrial applications.

SAMPLE HANDLING & CONDITIONING SYSTEM

Hot & Wet Extraction: Sample is extracted from the stack using heated sample probe, transfered to the analyzer using heatrace line to avoid condensation. Further sample is cooled and moisture is removed before analyzing.

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

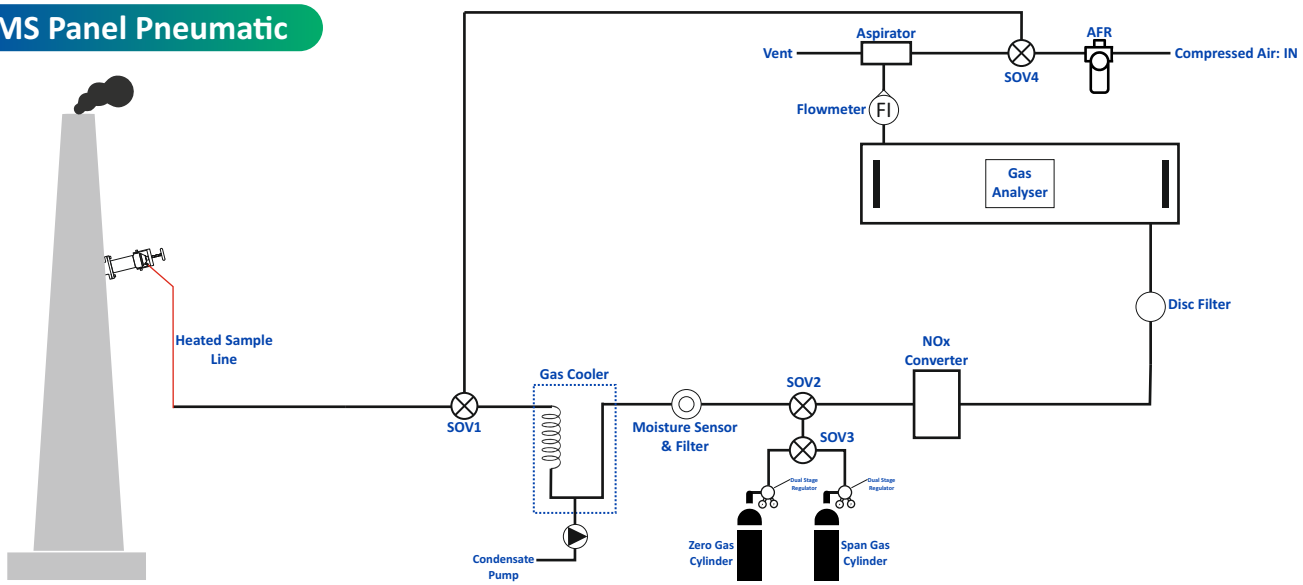
REMOTE CALIBRATION

DATA NORMALIZATION

TECHNICAL SPECIFICATIONS
FOR GAS ANALYZER

PARAMETER	SPECIFICATIONS
Measurement Technologies	NDIR, UV-DOAS, Zirconia
Measured Gases	SO_2, Nox, CO, CO_2, Cl_2, O_2, CH_4 & more
Measurement Type	Extractive Type
Measuring Range	0~1000 PPM (other ranges on request)
Accuracy	±2% of reference measurement
Repeatability	≤ ±1% of Full Scale
Response Time (T90)	≤ 60 seconds
Zero Drift	≤ ±1% F.S. / week
Span Drift	≤ ±1% F.S. / week
Calibration	Manual / Automatic / Remote (Model Dependent)
Sample Flow Rate	~0.8 LPM
Display	7” Color Touchscreen HMI (Model Dependent)
User Interface	Menu-driven with password protection
Analog Outputs	4–20 mA
Digital Communication	RS485 (Modbus RTU)
Alarm Relay Output	Potential-Free Relay Contacts for High
Mounting	19” Rack Mountable
Operating Temperature	5°C to 45°C
Power Supply	220 VAC ±10%, 50 Hz
Mounting	Rack

CEMS Panel Pneumatic



LASER GAS ANALYZER

BASED ON TDLAS (Tunable Diode Laser Absorption Spectroscopy)

The **EZ320 TDLAS** Laser Gas Analyzer is a high-performance extractive gas monitoring system designed for precise and real-time measurement of critical industrial gases. The analyzer utilizes advanced laser absorption spectroscopy to deliver highly selective, fast-response, and interference-free gas measurement even in harsh process environments.

TECHNICAL SPECIFICATIONS

PARAMETER	SPECIFICATIONS
Measurement Technologies	TDLAS
Measured Gases	HCL, HF, NH_3, CH_4, O_2, H_2S, CO_2, H_2O
Measurement Type	Extractive Type
Measuring Range	0~50 PPM (other ranges on request)
Accuracy	±2% of reference measurement
Repeatability	≤ ±1% of Full Scale
Response Time (T90)	≤ 60 seconds
Zero Drift	≤ ±1% F.S. / week
Span Drift	≤ ±1% F.S. / week
Calibration	Manual / Automatic / Remote (Model Dependent)
Sample Flow Rate	~0.8 LPM
Display	7” Color Touchscreen HMI (Model Dependent)
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Mounting	Rack

VOC ANALYZER

BASED ON PID (Photoionization Detection)

The **EZ320 PID** VOC Analyzer is a high-performance continuous gas monitoring system designed for accurate detection and measurement of a wide range of volatile organic compounds (VOCs) in industrial stacks, process lines, and ambient environments. Utilizing advanced Photoionization Detection (PID) technology, the analyzer delivers real-time VOC concentration data with fast response and excellent sensitivity.

VOC/TOC/THC ANALYZER

BASED ON FID (Flame Ionization Detection)

The **EZ320 VOC/TOC/THC** Gas Analyzer utilizes advanced **Gas Chromatography (GC)** combined with **Flame Ionization Detection (FID)** to deliver accurate and reliable measurement of organic compounds in gaseous samples. In this system, gas-phase organic components are first separated within the GC column and subsequently ionized in a hydrogen flame inside the FID detector. The resulting ionization current is directly proportional to the concentration of organic carbon present in the sample.

This analytical technique offers exceptional sensitivity and selectivity, making it highly suitable for monitoring industrial emissions, ambient air quality, and process gases. The integrated system comprises a sample conditioning unit, GC separation column, high-sensitivity FID detector, and an

AMBIENT AIR QUALITY MONITORING SYSTEM

$PM_{2.5}$, PM_{10}, SO_2, NO_2, CO, O_3, TVOC & MORE (Based on Laser Scattering & ECD)

DustCount

DustCount is an online ambient particulate monitoring system for continuous air quality measurement. It monitors PM_1, $PM_{2.5}$, and PM_{10} with high accuracy and stable performance. Ideal for construction sites, mining areas, ports, and environmental monitoring projects.

OdoCount

OdoCount is a real-time odour emission monitoring system for continuous environmental surveillance. It measures odorous gases such as NH_3, H_2S, VOCs, and other airborne contaminants. Ideal for industrial zones, waste treatment plants, and environmental monitoring applications.

Poll-IQ

Poll-IQ is an ambient air quality monitoring system designed for continuous pollution assessment. It monitors $PM_{2.5}$, PM_{10}, SO_2, NOx, CO, and O_3 with reliable accuracy. Ideal for regulatory stations, industrial perimeters, smart cities, and research programs.

AQ1

AQ1 is an industrial-grade single-parameter air quality monitoring system for safety applications. It measures gases like TVOC, NH_3, H_2S, CH_4, CO, and particulate matter. Ideal for industrial plants, indoor environments, and occupational safety monitoring.

AMBIENT AIR QUALITY MONITORING SYSTEM

USEPA APPROVED ANALYZERS

$PM_{2.5}$ & PM_{10}

Beta attenuation technology measures particulate matter by detecting reduction in beta radiation through particle samples. It provides accurate mass concentration measurement for reliable ambient air quality monitoring.

SO_2

UV fluorescence technology measures SO_2 by detecting fluorescence emitted after ultraviolet light absorption. It ensures sensitive and accurate monitoring for environmental and regulatory applications.

NO_x

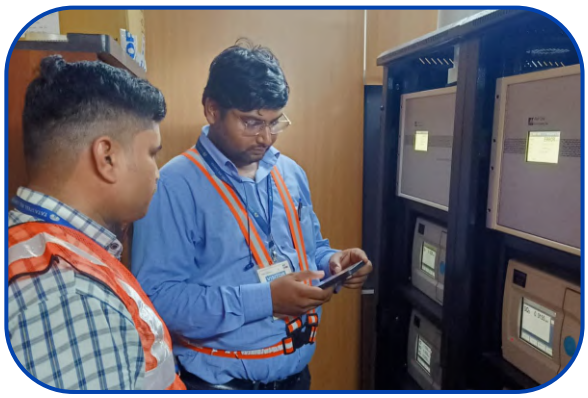
Chemiluminescence technology measures NO_x through light emitted during reaction with ozone. This highly sensitive method enables precise and continuous ambient air monitoring.

CO

NDIR technology measures carbon monoxide by detecting its infrared absorption characteristics. It provides stable, accurate, and low-maintenance monitoring for air quality applications.

O_3

UV absorption technology measures ozone by detecting ultraviolet light absorbed by ozone molecules. This method ensures precise and reliable monitoring for ambient air quality assessment.



AMBIENT AIR QUALITY MONITORING SYSTEM

BTEX Analyzer

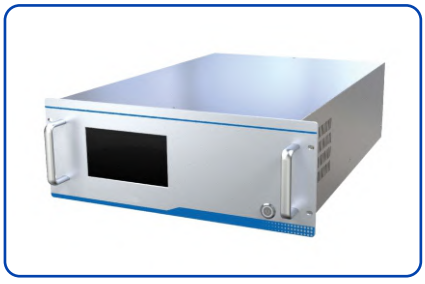
The analyzer uses chromatographic separation and pre-concentration for accurate measurement of methane (CH_4) and non-methane hydrocarbons (NMHCs) in ambient air. Samples are separated through a dedicated column and detected using a high-sensitivity Flame Ionization Detector for precise hydrocarbon analysis.

HC / NMHC ANALYZER

The analyzer employs chromatographic column separation with pre-concentration technology for precise measurement of methane (CH_4) and non-methane hydrocarbons (NMHCs) in ambient air. Samples are processed through a methane analysis column and detected using a Flame Ionization Detector for reliable hydrocarbon monitoring.

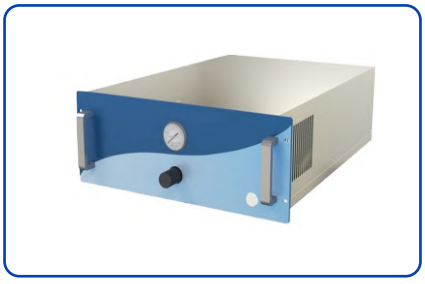
WEATHER SENSOR

The ultrasonic weather sensor provides continuous real-time monitoring of key atmospheric and environmental parameters. It measures wind speed, wind direction, temperature, humidity, pressure, rainfall, UV index, and illumination for accurate meteorological and environmental assessment.



Dynamic Gas Dilutor

H_2 Gas Generator



Zero Gas Generator

EFFLUENT QUALITY MONITORING

COD, BOD, TSS, PH & MORE

The EZL600 Effluent Water Quality Monitoring System is an advanced online analyzer designed for continuous in-situ measurement of critical water quality parameters including COD, BOD, TSS, pH, and more. The system integrates a robust control unit with high-performance immersed sensors and probes, utilizing UV-Vis spectrophotometry for accurate absorption-based analysis.

Its direct in-situ installation enables real-time monitoring without the need for sample extraction systems, ensuring reliable performance with minimal maintenance. The analyzer supports simultaneous multi-parameter measurement, making it ideal for effluent discharge monitoring, river water assessment, groundwater studies, and municipal wastewater treatment applications.

TECHNICAL SPECIFICATIONS

PARAMETER	SPECIFICATION
Measurement Principle	UV-Vis Spectrophotometry (Dual Beam, Full Spectrum)
Measurement Type	In-Situ Immersion Monitoring
Measuring Range	COD & BOD: 0~500mg/m | TSS: 0~200mg/m | pH: 0-14
Accuracy	≤ ±10% of reference method
Linearity	±1% Full Scale
Zero Drift	≤ ±1% F.S. / week
Span Drift	≤ ±2% F.S. / week
Display	7” Color Capacitive Touchscreen HMI
Data Storage	Internal SD Card
Analog Output	4–20 mA (Isolated): Optional
Digital Output	RS485 Modbus RTU
Alarm Output	Relay Contact: Optional
Power Supply	220 VAC, 50 Hz
Operating Temperature	5°C to 45°C
Enclosure Type	Fiberglass Reinforced Polyester
Mounting	Wall / Pole Mount
Protection Class	IP67
Controller Dimensions	359 × 302 × 173 mm

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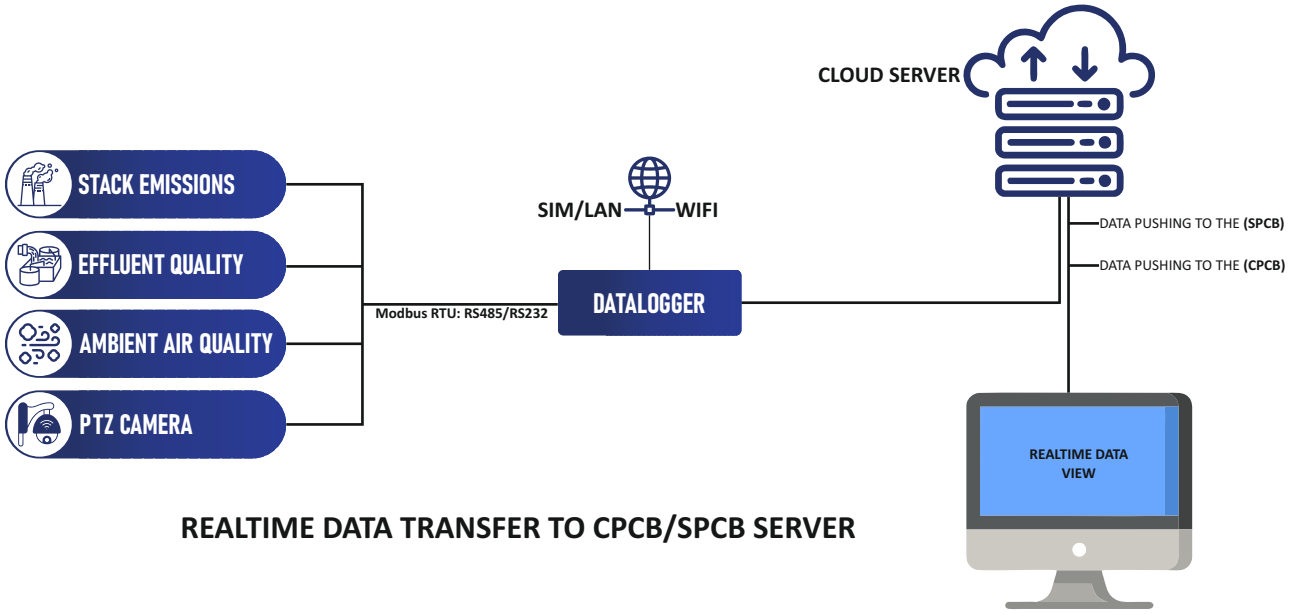

REALTIME DATA TRANSFER TO CPCB/SPCB SERVER

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