

A photograph of a water treatment plant with a large circular tank, a tall chimney, and various pipes and structures under a blue sky with clouds. The image is framed by a blue and green graphic overlay.

AMBIENT AIR QUALITY MONITORING SYSTEM

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PM_{2.5}, PM₁₀, Temperature & Humidity

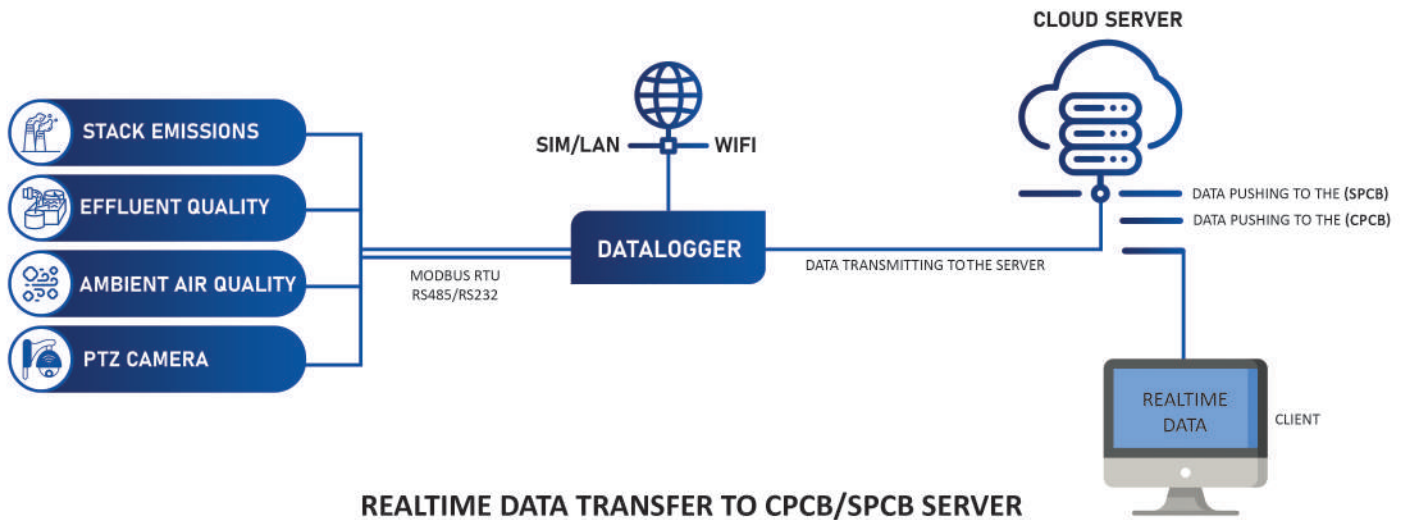
Overview

The Particulate Matter & Environmental Monitoring System is designed for real-time monitoring of air quality by measuring PM_{2.5}, PM₁₀, Temperature, and Humidity. This system is ideal for industrial, urban, and research applications, providing accurate data to ensure environmental compliance and safety.

Technical Specifications

SENSOR UNIT				
Parameter	PM2.5	PM10	Temperature	Humidity
Measurement Principle	Light Scattering		Diode	Capacitance
Measurement Range	0 ~1000 µg/m ³		-40°C ~ 60°C	0~100%RH
Accuracy	R ² >0.7		±0.3°C	±3%
CONTROL UNIT				
Display	7 Inch Color Touch Display			
Resolution	800x480 Pixel			
Dimensions	H:359mm x W:311mm x D: 144MM			
Weight	5.20 kg			
Mounting Type	Poll/Wall Mounted			
Enclosure IP Protection	IP67			
Enclosure Material	Fiberglass Reinforced Polyester			
Enclosure Color	Gray (RAL 7035) with clear window			
Power	220-230VAC, 50Hz			
Digital Communication	RS485, standard Modbus RTU			
Local Data Storage	2 Year (Inbuilt SD Card)			
Battery Backup	12-hour lithium-ion battery backup			
Operating Temperature	-40°C ~ 85°C			





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