Sensor based Air Quality Monitor

ClimaGuard

Vair-9014

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VEVASTHI
ENVIRONMENT TECHNOLOGY

MODEL: Vair-9014

ClimaGuard

The ClimaGuard Vair-9014 Series is a state-of-the-art air quality monitoring solution Provides real-time, precise, and reliable data for various industrial and environmental applications. Developed with Advanced sensor technology, it provides comprehensive insights into air quality parameters, ensuring compliance with international environmental regulations and industry-specific air quality standards.

Built for high-performance monitoring, the ClimaGuard Vair-9014 Series is equipped with advanced detection capabilities that accurately measure pollutants, particulate matter, and gas concentrations. Its robust design allows it to function effectively in diverse environments, including industrial facilities, urban areas, and remote locations.

With seamless connectivity and user-friendly data management, this series integrates with cloud platforms and analytical software to make informed decisions for pollution control, regulatory compliance, and environmental protection. The ClimaGuard Vair-9014 Series is the ideal choice for organizations looking to enhance their air quality monitoring systems with precision, efficiency, and reliability.

According to CPCB guidelines, the placement height for a Continuous Ambient Air Quality Monitoring Station (CAAQMS) should be around 2 meters above ground level to accurately represent the "breathing zone" of people, ensuring the air inlet is positioned at a height between 2 to 4 meters from the ground

Features

- Real-Time Air Quality Monitoring.
- High-Precision Sensors for Multi Gas Detection
- Wireless Connectivity & Cloud Integration
- User-Friendly Interface & Data Visualization
- Durable & Weather-Resistant Design
- Low Power Consumption & Energy Efficiency
- Customizable Alerts & Notifications
- Easy Installation & Low Maintenance
- Scalability for Various Applications
- Compliance with International Standards
- Equipped with an Efficient Solar Power System

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Technical Specifications

Gas Sensors	:	CO, CO_2, NO_2, O_3, SO_2, H_2S, NH_3, CH_4, TVOC, HCL (Any Selected 6)
PM Sensor	:	PM_1, $PM_{2.5}$, PM_{10}
Working Principle	:	Electrochemical Catalytic Reaction (Gases) Optical Laser Technology (Particulate Matter)
Weather Station	:	Temp., Humidity, Pressure, Wind Speed, Direction & Solar Radiation
Operating temp.	:	-10 ºC to 60ºC
Operating RH	:	0 to 99 %RH
Battery	:	Lithium 6 Ah (13 to 14 Hours Backup)
External supply	:	12-18 VDC. Charger or Solar Panel
Response time for Gases :		From 15 to 30 seconds
Response time for Particles :		From 4 seconds
Power consumption	:	0.08 - 1.2W (depending on configuration)
Communications	:	Ethernet, RS-485 2G,3G or 4G SIM
Connectors	:	#1: Power 12 V to 18 V #2: Modbus RTU Slave #3: Weather Station #4: Ethernet
Cloud Communication	:	Sending Data to Cloud For Every 1 minute
Remote management	:	Accessibility is available
Dimensions	:	Length 260 mm × Width 190 mm × Height 251 mm
Weight	:	<3.5 kg
Enclosure	:	Stainless Steel & Aluminium
IP rating	:	IP54

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AIR QUALITY MONITORING SYSTEM