

DUST MONITORING SYSTEM



PRODUCT FEATURES

- The dust monitoring station is designed for automatic outdoor dust monitoring, serving the assessment of environmental impacts caused by open burning of rice straw.
- Suitable for use in factories and industrial plants to monitor and evaluate dust emission sources.
- Monitoring data are displayed on an LCD screen and transmitted to the central system via a 4G network.
- Utilizes high-quality sensors supplied by leading and reputable manufacturers worldwide.
- Powered by solar energy or grid electricity.
- Equipped with data backup capability to ensure data integrity during power outages.
- Domestically manufactured, offering a competitive price compared to imported products.
- The air monitoring system enables Air Quality Index (AQI) forecasting using AI technology.

RELATED PRODUCTS & SERVICES

SITECH Smart and Creative Technology Joint Stock Company (SITECH) brings together a team of highly qualified and experienced engineers specializing in research, design, manufacturing, and delivery of automatic environmental monitoring solutions and equipment, pollution warning systems, and detection of abnormal changes in ambient air quality.



SPECIFICATIONS

DATALOGGER

- ARM® 32-bit Cortex®-M4 core CPU
- Processor speed: 80 MHz
- Data transmission via 4G, LoRa, and WiFi networks
- Supports both analog and digital signal inputs
- Monitoring parameters: PM2.5, PM10, and TSP
- Operating voltage: 8–28 VDC
- Low power consumption
- Electronic components sourced from Europe and the United States

SENSORS

- Operate based on optical measurement principles
- Integrated heating element to enhance measurement accuracy and reliability
- Built-in GPS enables mobile and relocatable monitoring
- High accuracy with low measurement error (less than 20%)

MANAGEMENT & SOFTWARE

- Management via website and mobile application
- Vietnamese-language interface, user-friendly and intuitive
- Alerts via website, mobile application, and SMS
- Visualized data presentation through maps, charts, and tables
- Display and forecast of Air Quality Index (AQI)
- Role-based access control for different user levels
- Fully functional on both desktop computers and smart-phones

REMOTE OPERATION

- Adjustable measurement and data transmission intervals
- Configurable alarm thresholds
- Customizable functions based on customer requirements

POWER SUPPLY

- Solar power or grid electricity
- Backup power system supports up to 3 continuous days without main power
- Solar panel lifespan exceeding 15 years

OPERATING CONDITIONS

- Ambient operating temperature: 0°C to 60°C
- Humidity: 0–100% RH
- Installation location must have 4G, LoRa, or WiFi network coverage



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