AQmini

Compact Indoor Air Quality Monitoring Solution

SCENTROID

Overview

The AQmini, developed by Scentroid, is a cutting-edge, compact, and highly cost-effective solution for comprehensive Indoor Air Quality (IAQ) monitoring. Designed for a wide array of enclosed environments, this device meticulously monitors critical atmospheric parameters including various toxins, chemical compounds, particulate matter, temperature, humidity, and atmospheric pressure. Its advanced sensor array provides real-time, actionable data, enabling proactive management of indoor air quality to ensure healthier and safer spaces.

Key Features & Benefits

Advanced Hypersensitive Pollution Detection

Detects even subtle deteriorations in air quality, providing immediate alerts when conditions fall below optimal levels.

Ultra-Quiet Operation

Operates at less than 7 decibels, ensuring deployment in the quietest environments without disturbance.

Energy-Efficient USB Operation

Minimal power consumption with convenient USB connectivity for enhanced portability and deployment.

True Plug & Play Installation

Pre-calibrated and tested at Scentroid laboratories for genuine plug-and-play experience.

Seamless Wireless Connectivity

Supports WiFi, Bluetooth, and LoRa connectivity for flexible deployment and data access.

Intelligent Display Management

Energy-conserving display that activates only when touched or during alarm conditions.

Viral Transmission Score (VTS)

The AQmini features a proprietary Viral Transmission Score (VTS) system that assesses potential risks associated with airborne viral transmission, including factors such as stagnant air, increased occupancy traffic, and HVAC system efficiency.

1 - 3
Low Transmission Score
(Optimal conditions)

4 - 6
Unhealthy Transmission Score
(Requires attention)

7 - 8
Hazardous Transmission Score
(Urgent action recommended)

9 - 10
Very Hazardous Transmission Score
(Critical conditions)

Monitored Parameters & Sensor Capabilities

The AQmini is equipped to monitor a comprehensive range of parameters with extensive customization options through additional sensor integration:

Parameter	Chemical Name	Type	Typical Applications
CH4	Methane	PID	General IAQ, Leak Detection
PID	Photoionization Detector	PID	VOCs, Hydrocarbons, Solvents
CO2	Carbon Dioxide	Electro-Polymer	IAQ, Ventilation Assessment
H2S	Hydrogen Sulfide	Electro-Polymer	Wastewater, Odor, Industrial Safety
CL2	Chlorine	Electro-Polymer	Industrial, Water Treatment
NH3	Ammonia	Electro-Polymer	Agricultural, Industrial
HCHO	Formaldehyde	Electro-Polymer	IAQ, Industrial Safety
PM 1	Particulate Matter 1.0	Laser Scattering	IAQ, Respiratory Health
PM 2.5	Particulate Matter 2.5	Laser Scattering	IAQ, Respiratory Health
PM 10	Particulate Matter 10	Laser Scattering	IAQ, Environmental Monitoring
Temp	Temperature	Thermistor	Environmental Conditions
Humidity	Humidity	Capacitive	Environmental Conditions
Pressure	Barometric Pressure	Piezo-resistive	HVAC Optimization, Air Leak Detection
NO2	Nitrogen Dioxide	Electro-Polymer	Urban Air Quality, Industrial
AsH3	Arsine	Electro-Polymer	Industrial, Safety, Agriculture

Parameter	Chemical Name	Type	Typical Applications
ETO	Ethylene Oxide	Electro-Polymer	Greenhouse Gases, Industrial
PH3	Phosphine	Electro-Polymer	Industrial, Safety
VOCs	Total Volatile Organic Compounds	Electro-Polymer	Wastewater, Odor, IAQ, Urban, Industrial
SO2	Sulfur Dioxide	Electro-Polymer	Safety, Industrial
O3	Ozone	Electro-Polymer	Urban, Industrial
O2	Oxygen	Electro-Polymer	Process Control, Safety
H2	Hydrogen	Electro-Polymer	IAQ, Safety, Industrial
CO	Carbon Monoxide	Electro-Polymer	Urban, IAQ, Industrial

Note: The AQmini allows for the integration of 2 additional optional sensors, customizable to specific monitoring requirements.

Ideal Applications

The AQmini is a versatile solution, ideally suited for a broad spectrum of industries and environments:

Manufacturing Facilities
Ensuring worker safety and compliance with air quality standards

Airports & Transportation
Monitoring air quality in high-traffic public spaces

Healthcare Facilities
Maintaining sterile and healthy environments

Wastewater Treatment
Detecting and managing hazardous gases and odors

Urban Environments
Improving indoor air quality in residential and commercial buildings

Agricultural Settings
Monitoring gases like ammonia and phosphine

SIMS3 Software Integration

The AQmini seamlessly integrates with Scentroid's advanced Sensor Information Management System (SIMS3), providing comprehensive data management and analysis capabilities.

Core Features:

- **Centralized Device Control:** Full control over all connected IAQ devices
- **Intuitive Floorplan Visualization:** Interactive floorplan with real-time AQI indicators
- **Advanced Analytics:** Multiple analysis modes including temporal, statistical, AQI, and heat map views
- **Automated Reporting:** Scheduled weekly, monthly, or annual reports

Installation & Setup

1

Consultation
Engage with a Scentroid consultant to define your specific industry and sensor requirements.

2

Customization & Production
Production and customization typically takes 4-6 weeks, with rigorous calibration and testing.

3

Connectivity Setup
Connect to Wi-Fi and register with SIMS3 software to establish monitoring goals.

4

Deployment
Mount the device, connect USB power, and begin immediate air quality monitoring.

Manufacturer: Scentroid - Future of Sensory Technology
Product Information: AQmini Product Page
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