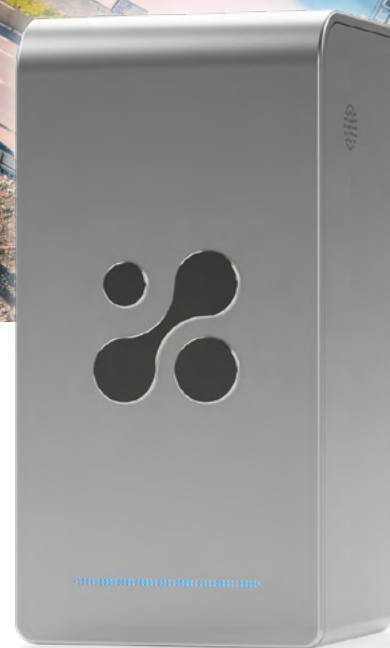# aethair PRO
Real-Time Perimeter Monitoring for Construction Regulatory Compliance

Aethair Pro is the ideal air monitoring solution for construction perimeter monitoring, providing real-time measurement of particulates (PM1, PM2.5, and PM10), silica exposure, and volatile organic compounds (VOCs). With its advanced sensor capabilities, Aethair Pro ensures compliance with state, local, and federal regulations while significantly reducing costs compared to traditional, bulky, and expensive rental equipment.

Importance of Perimeter Air Monitoring in Construction

Airborne particulate matter and VOC emissions from construction activities pose significant health and environmental risks. Aethair Pro provides continuous perimeter monitoring to:

› **Ensure Regulatory Compliance:** Meet OSHA, EPA, and local air quality standards.

› **Detect Silica Exposure in Real Time:** Monitor & mitigate silica dust levels to protect workers and nearby communities.

› **Track VOC Emissions:** Identify hazardous compounds from fuel, adhesives, and building materials.

› **Reduce Monitoring Costs:** Eliminate the need for expensive, cumbersome rental kits.

Key Monitoring Capabilities of Aethair Pro

Feature	Specification
PM1, PM2.5, PM10 Monitoring	Real-time measurement of airborne particulates
Silica Dust Detection	Continuous tracking of respirable crystalline silica (RCS)
VOC Detection Sensitivity	ppb-level detection for hazardous emissions
Regulatory Compliance Alerts	Automatic notifications when thresholds are exceeded
Data Logging & Remote Access	Cloud-based reporting for documentation and compliance

Key Airborne Contaminants at Construction Sites

Contaminant	Source	Potential Impact on Workers & Environment
PM1, PM2.5, PM10	Dust from excavation, concrete, & demolition	Respiratory issues, environmental pollution
Silica Dust (RCS)	Cutting, grinding, and drilling concrete	Severe lung disease (silicosis)
VOCs	Paints, adhesives, fuel emissions	Long-term health effects, regulatory concern

Benefits of Aethair Pro in Construction Perimeter Monitoring

Benefit	Impact
Real-Time Silica Monitoring	Protects workers and ensures compliance
Reduced Monitoring Costs	Eliminates need for expensive rental equipment
Regulatory Compliance Assurance	Meets OSHA, EPA, and local air quality standards
Remote Access & Data Logging	Cloud-based monitoring for instant access
Enhanced Site Safety	Mitigates risks to workers and nearby communities

Applications in Construction Sites

Application	Monitoring Focus
Demolition & Excavation	Monitoring airborne particulates and silica levels
Concrete Cutting & Grinding	Tracking respirable crystalline silica (RCS) exposure
Painting & Coatings	Measuring VOC emissions
Perimeter Fenceline Monitoring	Ensuring compliance with regulatory air quality limits
Worker Exposure Tracking	Protecting personnel from hazardous airborne materials

Conclusion

Aethair Pro is the most effective and cost-efficient solution for construction perimeter air quality monitoring. By delivering real-time data on PM1, PM2.5, PM10, silica, and VOCs, it ensures compliance with air quality regulations while drastically reducing costs compared to traditional monitoring techniques. Its advanced remote capabilities make it highly configurable for all air monitoring needs—indoor, outdoor, and on the go—providing unmatched protection for workers and communities.

How can we help you?

If you would like to find out more about how we can help you, please give us a call or send us an email.

Contact Us: +1 (267) 225-8487   sales@aethair.io

aethair

See The Air You Breathe

aethair.io