

aethair PRO

Custom Industrial Air Quality Monitoring



aethair PRO

The Professional Solution



Aethair PRO is the ultimate solution for customizable industrial-grade monitoring, delivering unmatched accuracy and user-friendly operation characteristic of Aethair solutions. Each Aethair PRO unit includes built-in sensing modules, coupled with the added flexibility of selecting two gas sensing modules tailored to your specific requirements. This comprehensive functionality is housed within a sturdy metal alloy enclosure, encapsulating the entire device. Aethair PRO redefines industrial monitoring with unparalleled customization, precision, and user-friendly operation.



Customizable Monitoring

Every application is unique and may require different types of sensors (e.g. gases, particles, environmental, and radiation). The Aethair PRO provides a wide range of options that will adapt the solution to suit the specific requirements of the application. All sensors are designed in the form of cartridges and can be replaced in the field, in a plug-and-play fashion, minimizing downtime and cost. Additionally, all sensors are shipped pre-calibrated and certified, ensuring accurate and reliable measurements at all times.

The Benefits of Aethair PRO

Aethair PRO leverages the versatile Aethair platform, providing users with a highly reliable solution that not only ensures adherence to various regulations but also minimizes liability. Aethair PRO offers numerous advantages:



Unmatched Data Security

Enterprise level security, encrypted end-to-end, from the hardware on the field all the way to the end-user.



4G LTE Connectivity

Remotely access data at any time, without the need of local networks or physical connections.



Virtually No Maintenance

Aethair PRO eliminates the need for regular site visits and offers a hassle-free and cost-effective monitoring solution.



Built-In Sensors

Every Aethair PRO includes various built-in sensors that are important in many different monitoring applications.

Pressure

Humidity

Particulates

Temperature

Customized Gas Sensor Setup

Choose two gas sensors to include in your setup. All gas sensors come pre-calibrated and are hot-swappable so that you can adjust the monitoring setup to your liking. If you don't see the sensor you are looking for, don't worry. This is only a small sample of the available gas sensors. Contact us, and we can help you get set up with a solution that will work for your application.

Carbon Dioxide

Formaldehyde

Carbon Monoxide

VOCs

NOx

SOx

Ammonia

Methane

Contact us for more!

Monitoring for every sector

Monitoring environmental conditions is crucial across various sectors, each with its unique set of challenges. The Aethair PRO is adaptable and can easily be applied to a wide range of monitoring applications. It provides solutions for enhancing performance, ensuring safety conditions, enabling preventative maintenance, and identifying potential hazards. It also offers a reliable way to ensure compliance with institutional standards and regulations, serving as the linchpin for efficiency, safety, and quality assurance.



Commercial Equipment

Compliance inspections and redundant maintenance causes costly downtime. The Aethair platform, with its advanced IoT connectivity, offers centralized cabin air quality monitoring of the entire fleet, from anywhere in the world for more optimized operation. It offers real-time information about emissions and cabin conditions, effectively minimizing safety hazards.



Transportation Systems

Aethair PRO was designed to secure all modes of transportation - including trains, buses and transportation hubs - by utilizing cutting-edge technology to monitor and display air quality in real-time. The platform helps better serve travelers by creating healthier environments and providing peace of mind that everyone is kept safe during their travels.



Commercial Buildings

Aethair PRO can be used in commercial buildings to ensure health, safety, and workplace optimization. It helps meet regulatory compliance for environmental and occupational health standards that require continuous monitoring, streamlining the processes beyond what is provided by other solutions. This helps protect both people and assets while promoting a sustainable and compliant working environment. Utilize real-time data and analytics to identify and address potential health hazards, offering early warnings and empowering data-driven decision-making.



Pharmaceutical Applications

Aethair PRO can be customized specifically for the needs of pharmaceutical labs. These labs are controlled environments that play a critical role in the research, development, and production of life-saving medications. Maintaining precise temperature, humidity, and air quality levels is essential for ensuring the integrity of the pharmaceuticals being developed. Additionally, conditions can be monitored to help safeguard the health and safety of laboratory personnel by quickly detecting and mitigating any potential exposure to hazardous airborne substances.

Don't see your sector? Don't worry – we've got you covered!

These are just a few examples where Aethair can be used to improve conditions, optimize operations, and protect people. We are dedicated to offering sustainable air quality solutions worldwide, Regardless of the sector, we have tailored solutions to meet your needs. Reach out to us today to explore how we can assist you with environmental monitoring: **Email: sales@aethair.io Phone: +1 (267) 225-8487**

Data Monitoring & Management

Aethair utilizes Environet, the most advanced web-based environmental data platform available on the market. Users can monitor specific parameters, visualize data trends, and access all data recorded over the history of the device's operating time. The platform also enables device & user management, alerts, mapping, reports, and much more. These tools are accessible at any time, anywhere in the world, all in a secure and encrypted professional environment.

- 24/7 Access to real-time data
- Numerous tools for data analysis
- Individual parameter monitoring
- Advanced alert system



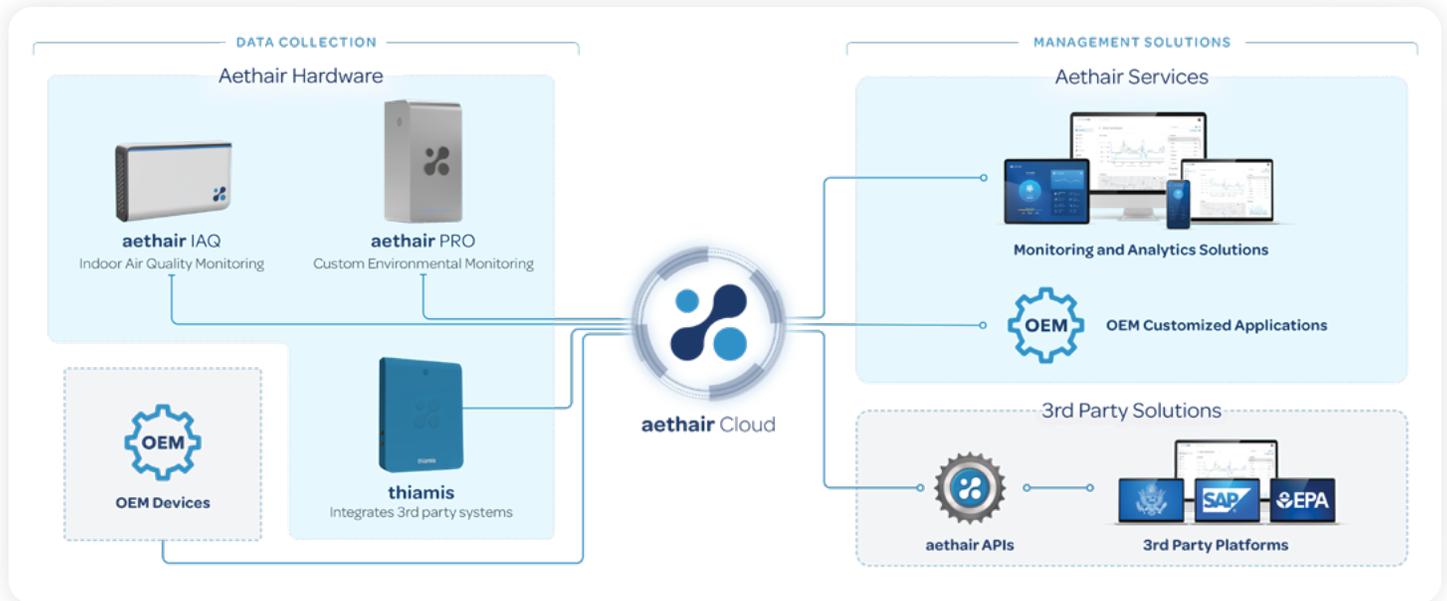
Aethair PRO Device Specifications

Gas Sensors		
SO ₂	Effective Range	0 - 100 ppm
	Maximum Consistency Error	< ±15
NO ₂	Effective Range	0 - 20 ppm
	Maximum Consistency Error	-20 to -40
NO	Effective Range	0 - 20 ppm
	Maximum Consistency Error	0 to -20
CH ₂ O	Effective Range	0~1 mg/m ³
	Maximum Error	<5% FS
CO ₂	Effective Range	0 to 100 % vol (Process Control)
	Maximum Consistency Error	±10ppm
CO	Effective Range	0 - 1000 ppm
	Maximum Consistency Error	< 10
O	Effective Range	80 to 120
	Maximum Consistency Error	< 1
O ₃	Effective Range	0 - 20 ppm
	Maximum Consistency Error	< -20 to -40
NH ₃	Effective Range	0 - 100 ppm
	Maximum Consistency Error	< 3
H ₂ S	Effective Range	0 - 100 ppm
	Maximum Consistency Error	< 20
tVOCs (PID)	Effective Range	0 - 200 ppm
	Maximum Consistency Error	> 0.6
*Additional sensors can be included based on the application		
PM Sensors		
	Size Range	0.3 to 25 µm
	Size Channels	0.3, 0.5, 1.0, 2.5, 5.0, 10.0 µm
	Flow Rate / Accuracy	0.1 CFM (2.83 LPM) / +/- 3%
	Aerosol Concentration Range	0.1 to 20,000 µg/m ³
	Internal Vacuum Pump	Internal with automatic flow control

Environmental Sensors		
Temperature	Range	-20 - 70 °C
	Resolution	0.1 °C
	Maximum Error	±0.5 °C
Humidity	Range	0 - 90% RH
	Resolution	0.1 %RH
	Maximum Error	±2 %RH
Barometer Optional differential pressure sensors	Range	300-1100 hPa
	Resolution	±0.12 Pa
	Maximum Error	±1.3 Pa
Ambient Light	Effective Range	0 to 300 Lux
Noise Level	Effective Range	-87 to 80 dBA
Communications		
Cellular		4G LTE / 3G / 2G
WiFi		802.11 b/g
Bluetooth		Bluetooth 4.0
Mesh		Zigbee
GPS		A-GPS
Antenna		Built-in
SIM Card		Built-in
General		
Input Voltage		5 - 24 VDC, 110-240 VAC
Power		0.6 Watt Built-In Battery & Charger
Alerts		Visual and Audio
Operating Temperature		-30 °C to 75 °C (-22 F to 167 F)
Accelerometer		16g (13-bit resolution)
Dimensions (LxWxD)		4.5in x 9.625in x 4.5in
Weight		1.6 Lbs (0.73 kg)
Certifications		CE, FCC

An Integrated & Seamless Platform

Experience the efficiency of a unified solution that not only simplifies but transforms the monitoring process, setting a new standard in environmental data management. Offering unparalleled flexibility, the Aethair platform seamlessly delivers real-time data, enabling users to monitor their environment from anywhere, at anytime.



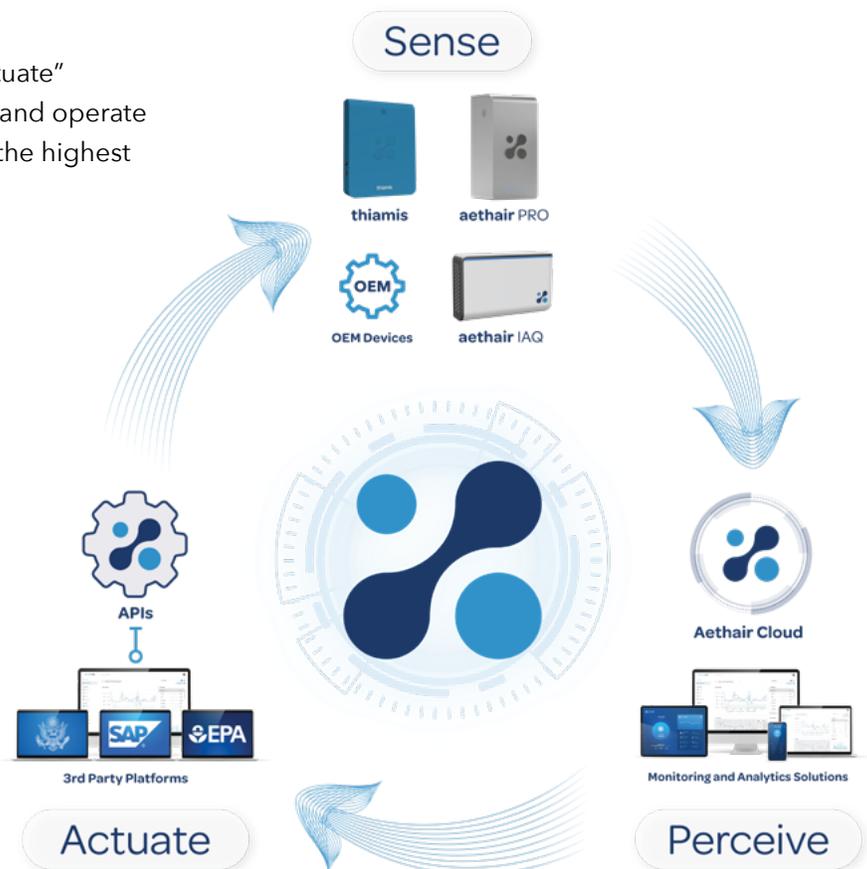
End-to-End Solutions

Our platform follows the “Sense - Perceive - Actuate” closed loop approach, providing easy to install and operate environmental solutions at any scale, following the highest standards for security & privacy.

SENSE Aethair devices continuously sense environmental conditions, communicating real-time data to our platform through a secure 4G LTE connection. This data is then instantly made available online on Environet.

PERCEIVE With Environet, users have access to all their data with the ability to visualize trends, map devices, set up real-time alerts, manage devices and users, generate environmental data reports, and much more.

ACTUATE By harnessing the capabilities of AI and ML and integrating them with real-time data, users can automate responses and leverage their data in a manner only achievable through the Aethair platform.



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



See The Air You Breathe

aethair.io