

Aretas Sensor Networks

SMOKE DETECTION & MONITORING SOLUTIONS

Aretas Sensor Networks, Inc.
877.218.6232
www.aretasworks.com



SMOKE DETECTION & MONITORING SOLUTIONS

Customizable Monitoring

HOW IT WORKS

1



MONITOR

Our monitors gather and transmit data to the communication bridge

2



GATHER DATA

Data from all units is sent securely to your private online data center account

3



ANALYZE & REPORT

Your data is archived, analyzed and reported in many useful ways

4



24/7 ACCESS

Decision making is easy from any computer or smart device

SENSOR OPTIONS

CO	Carbon Monoxide
CO2	Carbon Dioxide
O3	Ozone
dB	Noise
DP	Differential Pressure
NO2	Nitrogen Dioxide
PM	Particulates
TRHF	Freezer / Fridge
VOC	Volatile Organic Compounds

More options available

Smoke Monitoring System

Working from our advanced Casino cigarette smoke monitoring system Aretas has developed a simple, lower-cost system for general smoke detection and monitoring*.

This particulate monitoring based system can continually monitor a space 24/7, report results online and send you text and/or email alerts when smoke levels reach levels you are concerned with. This allows our customers to meet many unique needs including:

- **Long or short-term monitoring:** Mount the detector in spaces that are of concern to your team; receive alerts, investigate and ensure a smoke free environment 24/7. Monitors can be moved as needed to address shorter-term situations such as recurring complaints.
- **Silent Alerts:** Set your alerts online to notify your team via text and/or email, this allows you to 'catch' violators in the act and address appropriately.
- **Discourage smoking:** Notifying the public and displaying signage of monitoring often lowers occurrences of smoking in non-smoking areas.
- **Resolve disputes & enforce policies:** Ongoing data gathering shows when and where smoking occurred. This data helps back up enforcement of policies such as hotel charges for guest smoking in non-smoking rooms.
- **Customizable:** Your monitoring can include additional sensors to monitor carbon monoxide, VOC's or other needs to deliver the decision-making data your need.
- **Energy savings:** All of our monitors include temperature and relative humidity monitoring. Tracking these allow you to see when energy saving opportunities exist throughout your facilities!



Aretas will work with you to create a program to address your particular needs, call us today for a **free demo and to get your questions answered (877) 218-6232**.

Uses of our smoke monitoring system

Depending on your facilities needs you can utilize the wireless smoke detection & monitoring system in a variety of ways which can include.

Hotels, vacation and rental properties

Flexibility to monitor every room, unit or even hallways to ID when and where smoking is happening. Allows facility staff to address guest smoking in-person after receiving a text and/or email alert. Your data is also archived online allowing additional support if you need to enforce non-smoking policy violations.

Health & senior care facilities

These facilities often have issues with guest 'sneaking' a cigarette or even lighting candles which are often prohibited due to fire hazard. Installing monitors in areas where complaints are made can help identify and address issues quickly and quietly.

Cigarette smoke monitoring options that match your budget

The Aretas team is continually working to lower costs for all solutions. Our smoke detection and monitoring system is the lowest-cost, data driven solution that monitors your facilities and helps you make decisions anytime, day or night.

Call or email us today and a live representative will share options and quote a system to meet your specific needs whether that is one or 50 monitors! **(877) 218-6232 or team-aretas@aretasworks.com**

* Note that this monitor detects smoke particulates and is not designed to specifically detect or identify cigarette smoke.

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SMOKE DETECTION & MONITORING SOLUTIONS

Customizable Monitoring

Data Communications

Your Aretas network of smoke monitors can communicate wirelessly with one or more of our communication bridges. The wireless system transmit via 802.15.4 frequency to ensure there will be no interference with networks and equipment using a standard 802.11 systems. Our communication bridge can gather data for up to 50 monitors within range.

Next, the communication bridge will transmit your data securely to the online analytics and alerts system. You can then login to view your data and make decisions as well as setup alerts to be sent your team via text or email.

Monitoring Includes

- 24/7 real-time data reporting; easily accessible from any Internet connected computer.
- Customize your own alert levels (email and text).
- Your on-line analytics display makes it easy to see real time variations in the indoor air environment so corrective actions can be taken.
- Automatically archives your data for custom reporting.

Cigarette Smoke Sensors

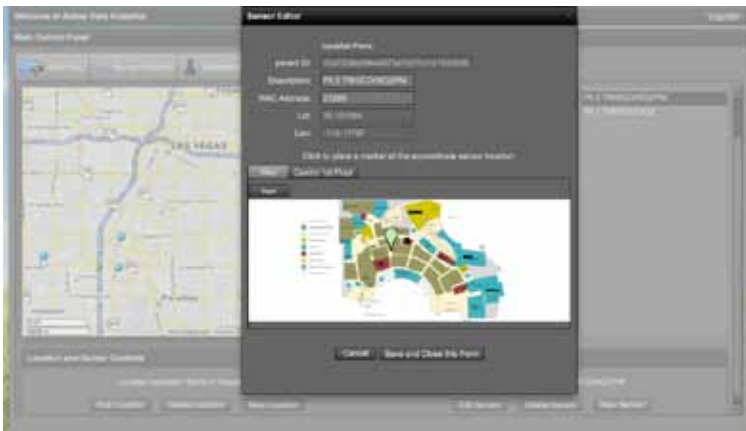
Though our standard smoke detection and monitoring system can not determine if smoke is cigarette smoke we offer a more industrial cigarette smoke detection system originally developed for casinos. The Aretas cigarette smoke monitoring system uses a mix of the following sensors to specifically ID cigarette smoke; temperature, relative humidity, carbon monoxide, carbon dioxide, nitrogen dioxide, ozone (O3) and particulates (PM 2.5). We also offer volatile organic compound (VOC) monitoring and other sensors to address specific needs in key locations.

Online Analytics - Building View & Heat Map

Your online analytics offers many useful maps, charting, alerts and other tools to manage one or more facilities from anywhere in world 24/7. You can review the various tools available with your online system here <http://www.aretasworks.com/features/overview>

For facilities that have intricate architecture that create challenges for HVAC systems, we have created a building view and heat map enabling you to review how different parts of the building are performing with respect to smoke. Bringing all facilities together in one system will allow facilities managers and decision makers to oversee many locations from any Internet capable computer, cutting down on travel and ensuring teams work together to meet specific goals.

Building View



Heat Map View



SMOKE DETECTION & MONITORING SOLUTIONS

Customizable Monitoring

Indoor Air Quality & Remote Sensor Monitoring System

Smoke Monitor

T/RH/PM



- Wireless
- 900 MHz
- 802.15.4

Customizable

T/RH/ CO/CO2/NO2/O3/VOC



Controllable

4-20 Input (optional)



3rd Party Sensors/Monitors



- Ethernet
- Broadband Connection (optional)

Communication Bridge

Data Collection & Transition Point



Smart Phone



Cloud

Aretas Servers



PC/Tablet