24/7 Indoor Air Quality Monitoring System

Monitor
Analyze
React
Living and Working Better

Health and Safety
Risk Mitigation
Reduce Energy Usage
Reduce Carbon Footprint
Online Wireless Sensor Analytics and Reporting

The core of the Air Innovation Resources (AIR) service is the online software system, which collects the data from a wide variety of environmental sensors. We deliver a variety of solutions with many types of sensors and monitors available. All of our sensor solutions include temperature and relative humidity that give you energy savings information no matter your specific need.

How The AIR Solutions Work

Yes we monitor and report data, but what really is important to understand is that we make data USEFUL to you. We like to call the online data analysis that we supply to you "ACTIONABLE INTELLIGENCE". We present the data to you in ways that makes it easy for you to review the current and past status of one or multiple sensors in any location world-wide. If any sensors report an issue you and your team can be notified by email or text message.

Wireless Sensor Monitor

The Wireless sensor platform is a modular device capable of supporting numerous sensors and is very easy to install for short-term and long-term data gathering. The wireless monitors have a variety of frequencies they can utilize. This can be important for many types of industries such as healthcare where our equipment will not interfere with other critical equipment.

Wireless Gateway / Bridge

AIR has created a modular bridge that transmits the data from one or multiple sensors installed at your facilities. For easy installation we can either connect into your existing Internet router or supply a stand-alone broadband WiFi connection. This flexibility allows you to avoid having to involve your IT department and for some industries like banking we do not interact with their internal data & security.
AIR Application

AIR provides an easy to use web-based application where companies, academics and hobbyists can send their data to our service by following a simple to use HTTP protocol. Once this is done, device histories, statuses etc. can be accessed online.

Main Map View
- View a list of color coded locations
- Color codes indicate building conditions
- Zoom into map to see more buildings and sensors
- Click on building icon to get latest stats, local weather

Main Charting
- Query individual sensor location data
- Charts all available data for that sensor package
- Multiple pre-defined intervals as well as custom ranges
- View stats by placing mouse over line
- Deselect sensors on chart, zoom into specific gases / metrics
- View critical statistics for period (min, max, average, standard deviation)

Index Charting
- Index charting provides you with an IEQ index and building rating to quickly identify issues with occupant comfort.
- Sophisticated building managers with access to SPL and Lux measurement can input measured basal values and determine more accurate theta indexes.
- Mold index is also provided as a reference to determine potential mold threat conditions.

Multi Sensor Charting
- Multi Sensor Charting allows you to compare conditions in many different locations at once
- Compare any available metric from different locations
- Chart at different intervals.
- Align time series data for time zone differences

Alerts Dashboard View
- Configure system wide alerts
- Apply to specific sensors or locations or ALL locations and sensors
- Choose specific levels and thresholds
- Choose specific sensor types (CO2, Temp, Power, etc)
- Choose multiple recipients and message types (email / SMS)
- View recent alerts history
Applications

Health Care Infection Control
In health care and hospital facilities controlling air pressure is essential to comply with industrial standards. The standard recommends maintenance of positive air pressure in operating rooms so that airborne contaminants will not follow into the surgical site. A differential pressure sensor ensures the optimum room pressure. Our monitors additionally collect temperature and humidity data to help you meet ASHRAE standard 170-2008 d for temperature of 68-73°F, with humidity in the range of 20-60%.

Real Estate monitoring
Real estate monitoring for unoccupied properties mitigates risk of property damage. By monitoring temperature and humidity levels inside an unoccupied residence a real estate agent or bank can ensure that pipes don’t freeze and water or mold damage do not occur. It’s easy to review the data for multiple properties remotely from a single location or have an email alert sent if parameters deviate from acceptable levels.

Restaurants Eliminate Food Spoilage
Restaurant environments benefit from IAQ monitoring by: preventing food spoilage by monitoring temperature/RH in the freezers, ensuring diner comfort by monitoring temperature, relative humidity, and CO2 levels in the dining area. Efficient environmental control also contributes energy savings to the business.

How you can start

1. Consult: give us a call and we’ll take the time to understand your exact situation and recommend the right sensors and setup to provide a solution.

2. Install: the sensors are shipped to your location and are easy to install; no special tools or training are necessary.

3. Connect: connect to the web-based application with a simple html protocol.

4. Track and Monitor: our online cloud services monitor your air quality 24/7. It’s easy to setup alarms and email alerts to notify you if there’s a problem. View your data any time from any location with web access anywhere in the world!