

## Fresh Air Ventilation Control With CO<sub>2</sub> Reduce Unnecessary Heating and Cooling Costs by 10% to 30%

### Real Time Ventilation Control...

AirTest's carbon dioxide (CO<sub>2</sub>) sensors offer a breakthrough in the ability to better control building operation and save energy. AirTest's CO<sub>2</sub> sensors are installed on a wall much like thermostats. Indoor CO<sub>2</sub> levels indicate the amount of fresh air ventilation entering a space. The sensor is then integrated with the existing building control system or ventilation equipment to optimize outside air ventilation to maximize energy savings while ensuring good indoor air quality for a comfortable and productive environment.



### Key Product Features

- 🔍 Self-calibrating sensor that never needs maintenance over its 15+ year life.
- 🔍 Wall or duct mount versions available with and without display.
- 🔍 Easily integrated with all building control systems and equipment. LonWorks® communicating versions also available.
- 🔍 Installed in thousands of buildings throughout the world, with some installations operating for over 18 years.

### Why Consider CO<sub>2</sub> Control?

#### 1. Save Energy With Ventilation Based On Occupancy

Until recently, the only way to ensure adequate ventilation in a building was to introduce enough air to meet the requirements of the highest possible occupancy of the building. Airtest CO<sub>2</sub> sensors sense the occupancy and ventilation rate in different spaces and control ventilation based on actual occupancy. This new approach ensures good air quality and can save considerable energy.

#### 2. Eliminate Over Ventilation From Improperly Set Air Intakes

You cannot control what you do not measure. The heating and cooling of outside air is a significant portion of building heating and cooling costs. Often air intakes are set or adjusted without any verifiable measurements. CO<sub>2</sub> sensing provides real time feed-back and control to ensure a building is not over-ventilated or under-ventilated.

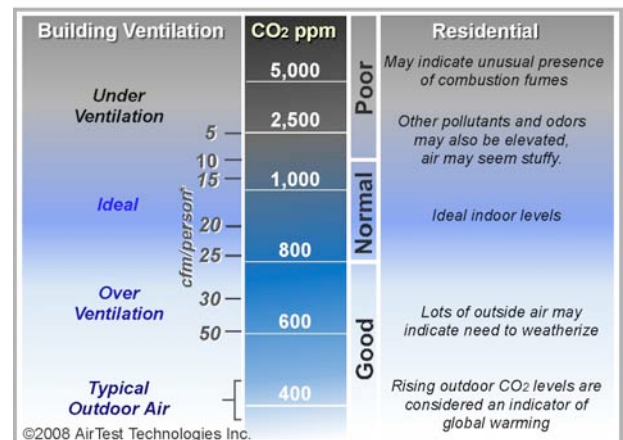
#### 3. Ensure Occupant Comfort And Productivity

There are hundreds of scientific studies that have proven a link between good ventilation and productivity. Children can concentrate and learn better in school. Adults can be more productive and good ventilation reduces the spread of viruses that can lead to absenteeism. The largest cost component to a building are the salaries of the building occupants. CO<sub>2</sub> control can be used to help ensure the best productivity of this valuable asset regardless if they are tenants or employees.

#### 4. A Simple Step Towards Going Green

CO<sub>2</sub> sensing is a recognized measure that can be added to new and existing buildings to help obtain the LEED green building rating offered by the Green Building Council. CO<sub>2</sub> control provides the twin benefits of reducing energy use while still ensuring ventilation rates that will provide a healthy, productive and comfortable indoor environment.

#### Understanding Indoor CO<sub>2</sub> Levels



Note: Interpretation should be based on peak CO<sub>2</sub> readings in a space.