

Balancing Efficiency with Comfort



The Environmental Index™ tool is an integral component of the WebCTRL® building automation system.

As energy prices continue to soar, facility managers are under increasing pressure to find ways to cut building operating costs. A simple solution would be to decrease energy consumption, but smart managers know that sacrificing comfort for energy savings could lead to even bigger financial problems. After all, studies have shown productivity decreases as comfort levels decline, leading to lost revenues in companies and difficult learning environments in school systems. What's needed is a way to measure comfort, so managers will know exactly how far to cut energy usage without negatively impacting comfort.

The WebCTRL Environmental Index™ tool allows you to assess how well systems are controlling, identify problem areas, and deliver the justification for remedial action. A live, dynamic dashboard provides a real-time analysis of conditions so that

the operator knows exactly what is going on in the system. As a result, there is no need to rely on a remote "expert" in the cloud who's unfamiliar with your building.

Since the key component of comfort is temperature, the Environmental Index™ tool starts with assigning point values based on the difference between zone temperature and heating and cooling setpoints. Other factors, such as humidity and CO₂ levels, can also be computed into the numeric system to reflect one "comfort" score for all factors. This is a powerful tool for facility managers who need to identify buildings with performance problems or ensure buildings don't become less efficient as changes are made.

Key Features and Benefits

- The Environmental Index tool score is calculated, trended, and reported at the building, area, tenant, floor, and zone levels
- Helps facility managers identify problem areas quickly and take remedial action
- Helps achieve LEED® EB EA Credit 3.3 - WebCTRL system reports percentage of time that comfort is maintained on a floor weighted basis
- Identifies areas where future energy conservation measures will yield the best return on investment



The WebCTRL® building automation system gives you the ability to understand your building operations and analyze the results. The WebCTRL system integrates environmental, energy, security and safety systems into one powerful management tool that allows you to reduce energy consumption, increase occupant comfort, and achieve sustainable building operations. Our web-based platform allows building managers to control and access information about their HVAC, lighting, central plant and critical processes on premises or remotely at any time of day.



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