

***How many sensors are required in a typical installation?
Where should they be located?***

The number of zones with different occupancy patterns should dictate the number of sensors.

In a small office application for example, it would be ideal to have a sensor in the office space and one in the conference area. Carbon dioxide distribution in a space is influenced by the same factors that influence temperature distribution. These factors include convection, diffusion and mechanical air movement. Much like temperature sensors, placement of CO₂ sensors should be based on the zone to be controlled and anticipated loads (e.g. common occupancy density and patterns).

For optimum control, there should be a CO₂ sensor placed in every location where temperature controls are used. If an HVAC system is serving a series of zones with similar occupancy patterns, sensors placed in the return air ducting may be appropriate.



Corporate Space Enclosure



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