

The VES Air Quality Sensor

*Providing the right amount of ventilation when you need it,
and great energy savings when you don't.*



The VES Air Quality Sensor monitors air quality and adjusts airflow to suit current conditions, providing demand ventilation with minimum energy use.

Use in buildings where occupancy varies such as shops, classrooms and conference rooms, restaurants, toilets, sports clubs, offices, night clubs.



Why you should fit a VES Air Quality Sensor:

- Clean fresh air is essential for people to function at their best, keeping them alert and wide awake. This is particularly important in a learning environment or where concentration is required for long periods of time.
- Using just the right amount of fresh air results in substantial energy savings.
- Keeps air fresh and clean where odours can persist, such as cooking, food, changing rooms and toilets, plus gas and vapour emissions from materials such as new furniture, paints, glues etc
- The AQ Sensor can be supplied with new equipment or retro fitted on site by the VES Specialist Site Services team.



How it works:

- The VES Air Quality Sensor measures both CO₂ and VOC - volatile organic compounds. It provides an output signal to regulate the air volume from the fan unit. With single phase fans this will be via an electronic speed controller, and three phase fans via an inverter. VES can supply the Air Quality Sensor as part of the controls package if required.
- CO₂ is present in air in rooms occupied by people, the normal range being 450 ppm for clean fresh air to 1250 ppm for unpleasant air quality. VOC are odours which also require monitoring. The unique design of the VES Air Quality Sensor allows both to be monitored, with a default setting at 50/50%. This can be changed by adjustment for specialised requirements.

Technical:

- The VES Air Quality Sensor is available in a room mounting enclosure or in a duct mounting housing.
- Weighting adjustment between 100% CO₂ and 100% VOC can be made, and proportions in between, ie 25/75, 50/50 etc. Default setting is 50/50% CO₂ and VOC.
- Proportional or high/low output signal.
- Built in temperature compensation between -10°C and 40°C.
- End of life indicator with LED warning light. Life span likely to be greater than five years in normal circumstances.

Creating a Positive Workplace Environment



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