

Environmental Sensors

- *Temperature*
- *Relative Humidity*
- *Air Velocity*
- *CO₂*





Environmental Sensors CGES Series

Carlo Gavazzi, the international electronics Group with activities in the design, manufacturing and marketing of electronic equipment, has introduced a new range of sensors.

These sensors by Carlo Gavazzi are designed in order to measure different environmental parameters : CO₂, Humidity, Temperature and Air velocity.

Designed to improve Indoor Air Quality by controlling ventilation that increase the supply of fresh air into the building if CO₂ levels rise to an unacceptable level that results in poor air quality and stuffy rooms

Can be used to control humidity level in humid climates. Controlled ventilation prevents unnecessary influxes of humid outdoor air that deteriorates the comfort level of the occupants and encourages the growth of mildew. In energy management systems, the accurate measurement of relative humidity and temperature is essential for optimum control of the environment.



Application Durability



User Friendly



Long Term Reliability



Minimize Energy Costs

Humidity control

In humid climates, it prevents unnecessary influxes of humid outdoor air that deteriorates the comfort level of the occupants and encourages the growth of mildew.

CO₂ level control

To improve the Indoor Air Quality by increasing the supply of fresh air into the building if CO₂ levels rise to an unacceptable level that results in poor air quality and stuffy rooms.

Energy savings

To control the environmental values helps to optimize energy use especially in high-density spaces in which occupancy is variable and unpredictable (e.g. auditoriums, schools, meeting areas and retail establishments), in locations with high heating and/or cooling demand and in areas with high utility rates.

Easy Installation

The sensors are available in both wall or duct mounting.

Range

CO₂, Relative Humidity, Temperature and Air Velocity are the parameters that can be measured and controlled.

Approvals

They comply with the related European standards.



Market Applications

HVAC (Heating, Ventilation and Air Conditioning)

According to the American ASHRAE 62-1989 norm, that recommends a maximum concentration of 1000 ppm in a room (deployed in many countries such as USA, Sweden, France, Japan), the CO₂ sensor monitors the CO₂ level in the space and the frequency drive changes the fan speed and the amount of air flow in the space making CO₂ value comfortable.

Smart Building

In buildings like Offices, Schools, Swimming pools and Museum the new products can provide environmental comfort, reduce energy use and help to preserve exhibits in museums.

In buildings like Green houses, Incubators and Food storage rooms the new products can contribute to the optimisation of plant's growth, Improve quality of food and reduce energy use.

Product Features

AC and DC Supply Voltage

The device can be supplied at 24VAC/DC, with the AC frequency being 50 to 60Hz.

Output

Three different output are available: 0-10V, 4-20mA and switching.

Mounting type

They can be wall or duct mounting



Air Velocity Sensor



CO₂ Sensor



RH + T Sensor



CO₂ + RH + T Sensors



Main Sensors

CGESC02D	CO ₂
CGESC02TW	CO ₂ , Relative Humidity / Temperature
CGESHTD / W	Relative Humidity / Temperature
CGESAIRVEL	Air Velocity

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