



CAP-CO2/EC

INTELLIGENT CONTROL FOR EQUIPMENT REGULATION
WITH EC TECHNOLOGY FANS, WITH INTERNAL CO₂ PROBE

- AUTOMATIC REGULATION BASED ON CO₂ SENSOR READING
- WALL-MOUNTED
- BUILT-IN CO₂ SENSOR
- TIME PROGRAMMING
- WIFI CONNECTION



INTELLIGENT CONTROL FOR
REGULATING UNITS WITH EC
TECHNOLOGY FANS



CO₂ is one of the contaminants most often found in building interiors, especially in high-occupancy buildings such as schools, restaurants and offices

This is because 4% of human exhalation is carbon dioxide (CO₂)

In closed environments with large volumes of people, where there is inadequate ventilation, the amount of CO₂ gradually increases. This increase in CO₂ leads to headaches, fatigue, loss of concentration and a reduction in performance. Measuring and reducing it in closed areas is **essential to maintain the good quality of the interior air**, prevent respiratory diseases and maintain a healthy environment.

The more efficient and effective way to reduce CO₂ in closed areas is to ventilate them by means of controlled mechanical ventilation systems.

BENEFITS OF CONTROLLED MECHANICAL VENTILATION

- 01. Reduction in the air-conditioning system energy consumption**, as ventilation is only used when necessary.
- 02. Reduction in the ventilation system energy consumption**, as the fan is regulated based on the CO₂ reading.
- 03.** Possibility of maintaining a **constant CO₂ level**.
- 04. Automation of the system**, making human intervention unnecessary.
- 05.** Possibility of directing the flow to ensure the **homogeneity of the interior air quality**.

CAP-CO2/EC



The CAP-CO2/EC control panel is ideal for air ventilation systems fitted with EC Technology motors with the electronics built-in to the motor itself.

This control incorporates all the functions required for automatic regulation of the ventilation system, adjusting the rotational speed parameters of the fan based on the sensor reading and the objective CO₂ value.

There are **two control options**: a simple one called CAP-CO2/EC-S and another with Wi-Fi connectivity called CAP-CO2/EC-W.

<p>CAP-CO2/EC-S</p> <p>The CAP-CO2/EC-S is a wall-mounted control with the following features:</p>				
	<p>Proportional regulation based on set point and CO₂ measurement</p>	<p>Time programming</p>	<p>Built-in CO₂ sensor</p>	
<p>CAP-CO2/EC-W</p> <p>The CAP-CO2/EC-W has all the above features and is also fitted with a Wi-Fi system that permits cloud connection through the platform.</p>				
	<p>Remote control</p>	<p>Wi-Fi</p>	<p>Data monitoring</p>	<p>Secure environment</p>
<p>The platform covers the extensive IoT field for monitoring data received from the equipment, as well as offering the possibility of acting with respect to said data. The ecosystem is made up of the IoT hardware, servers, cloud controls and the different user interfaces for interacting with the equipment.</p> <p>All the above is developed and designed to take place in a secure environment, protected by a legal framework that provides the customer with a compact, functional and safe end product.</p>				

CAP-CO2/EC

Intelligent control for the regulation of EC Technology fan units with internal CO₂ sensor



Intelligent control designed for the regulation of EC Technology ventilation equipment, depending on the reading of the integrated CO₂ sensor.

- Characteristics of the main unit:
- LCD display with LED Backlight.
 - Automatic regulation 0-10 V set point according to CO₂ probe reading.
 - Integrated CO₂ sensor.
 - Time programming.
 - Remote safety stop.
 - Alarm visualisation on display.
 - Configuration of air renewals.
 - Modbus RTU communications channel.
 - Mounted on the wall or on the fan itself.
 - Power supply 230 V 50/60 Hz.
 - Version W: with WiFi connectivity.

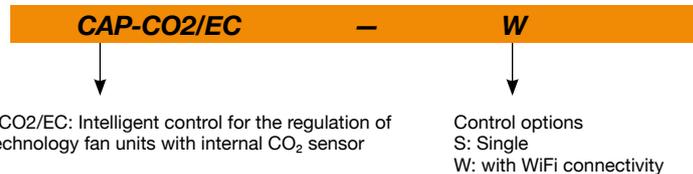
Inputs:

- 1 input for remote stop voltage-free contact.

Outputs:

- 1 output 0-10 V for proportional regulation according to setpoint and CO₂ measurement.
- 1 output for all/nothing regulation according to setpoint and CO₂ measurement.
- 1 control output 0-10 V.
- 1 output for air quality display alarm.

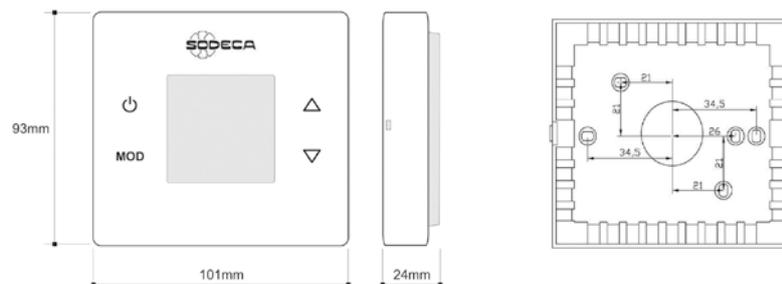
Order code



Technical characteristics

Model	Supply voltage	Nominal current	Control output	Operating temperature	Approx. weight	Protection class
	(V)	(A)	(V)	(°C)	(Kg)	
CAP-CO2/EC	230 V AC 50/60 Hz	0.2	0-10	0 a +50	0.9	IP20

Dimensions mm





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