



PRODUCT SUMMARY

The Air Quality Module by GVZ is an all-in-one solution for measuring the main parameters defining the air quality level.

Highly flexible and customizable, this module gives new possibilities for environmental quality detection. In its complete configuration, it manages up to five sensors (CO₂, Temperature, Relative Humidity, VOC and PM_{2.5}). Ozone sensor is on the way to be added as well.

With dimensions based on 3 modules electrical plaque, it is also the perfect solution for applications where reduced size is fundamental, such as wall-mounted or compact air quality devices.

APPLICATIONS

- Air Treatment Unit
- Home & Building automation
- HVAC
- Industrial
- Residential
- OEM

GVZ Components S.r.l.

Via Magenta, 77/16A
Rho (MI),
20017 Italy

Email:
info@gvzcomp.it

Phone:
+39 02 3340 0846

Website
www.gvzcomp.it



Air Quality Module

Compact multi-parameter indoor air quality board designed for Home & Building automation and HVAC markets.

- Compact multi-parameters module
- UART/Modbus/Display (customizable) Output
- Up to 5 Environmental sensors
- Cost effective
- Highly customizable

The Air Quality Module is a **complete solution** for measuring the basic parameters usually used to define the indoor air quality.

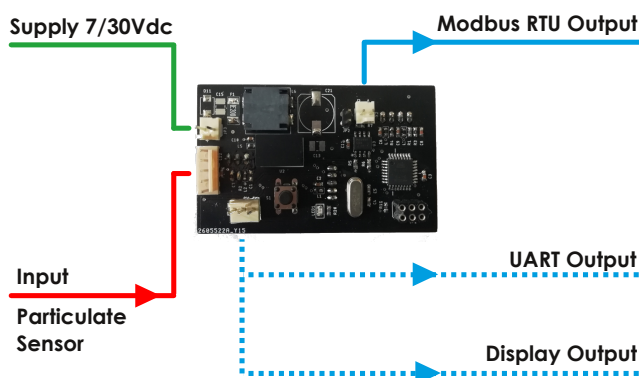
Combining up to five environmental sensors, it returns the values via Modbus, UART, or Digital display. The values of **CO₂, Temperature, Relative Humidity, VOC and Particulate** can be directly visible on the 4" digital display or transmitted via protocols to a remote unit.

Thanks to **multiple configurations**, adjustable sampling frequency, low consumption and small size, the AQM is a **highly flexible** tool to control the air quality even in compact and portable devices.

Features Benefits

Sensors Configuration	Up to 5 Environmental parameters
Digital communication	Modbus RTU or UART
Customized Display	Visual, intuitive 4" LCD Display
Compact Size	503/505 standard electrical plaque
Ready to use	Quick and easy installation

Connection Configuration



PART NUMBER DEFINITION

AQM-3-CVP-1-N-0

Board

- 3 Dimension plaque 503
5 Dimension plaque 505

Sensors configuration

Default: T & Rh +

- C-- CO2
-V- VOC
-P Particulate
-O Ozone (Under development)

Output

- 1 Modbus Output
2 UART Output
3 Display Output
4 LIN Output (TBC)

Optional

- N No case
V Coated
C With case

Extra info

- 0 Prototype
1 Production

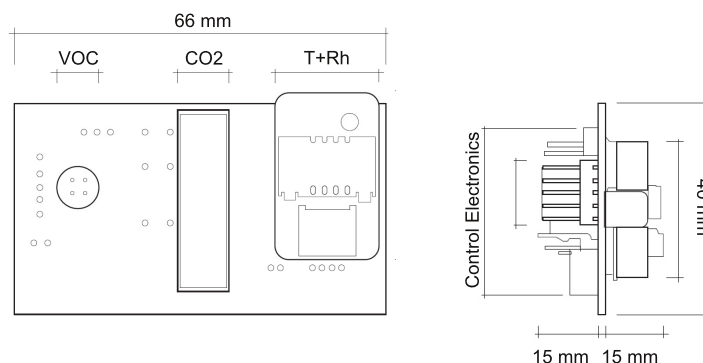
Environmental Specification

Parameter	Technology	Range	Accuracy
CO2	IR	400-2000 ppm	+50ppm +5%
Temperature	Thermistor	0-60 °C	+1% FS
Humidity	Ceramic Resistor	10-90% Rh	+3% (25-50°C)
VOC	Semiconductor	0-10 levels	1 level
Particulate PM2.5	Light Scattering	0-500 ug/m3	1ug/m3

Mechanical Diagram

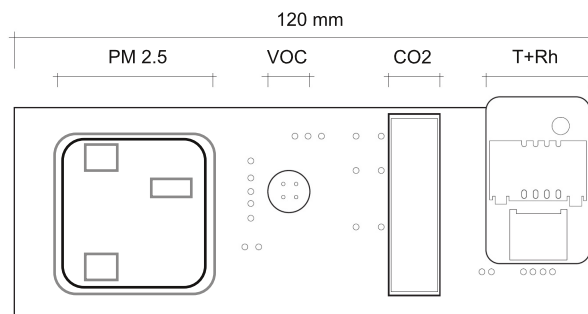
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Four sensors air quality board with CO2, Temperature, Humidity, and VOC



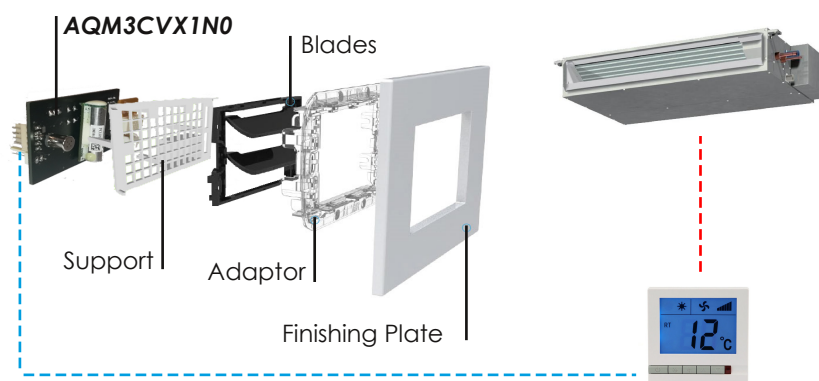
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Five sensors air quality board with CO2, Temperature, Humidity, VOC, and Particulate



Application example:

Wall mount module for offices HVAC unit



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