



CA 1510

Indoor air quality CO₂ - Temperature – Humidity



Monitor the air around you for a healthy environment

- CO₂, temperature and humidity logger (up to 1 million measurements)
- Compact and stand-alone: for fixed or portable use
- User-friendly: thanks to the comfort indicators based on the CO₂ level and hygrothermal criteria
- Accurate: complies with the latest standards concerning air quality monitoring
- Low gas consumption for verification with its in-situ calibration kit
- Monitoring mode with indication of the level of CO2 and alert if the threshold is exceeded
- Threshold values configurable by the user (e.g. 800 ppm)















INDOOR AIR QUALITY

REGULATIONS

Whether in places open to the public (transport, government offices, schools or hospitals), workplaces or private areas, our lifestyles mean we spend most of our time indoors.

Human activities and products used in construction, decoration and furniture (paint, floor and wall coverings, varnishes, etc.) are all sources of contamination emitting substances into the air.

Ensuring good indoor air quality means having an appropriately-sized ventilation system capable of reducing the levels of the pollutants emitted in the premises to a concentration considered acceptable. Outdoor air contains approximately 0.04 % (400 ppm) of CO₂. In indoor environments, human activity (breathing) can quickly raise this concentration to 1,500 ppm (in meeting rooms and classrooms, for example).

For this reason, the level of CO_2 is an excellent indicator of the efficiency of air renewal systems.

Compliant with the latest standards for measuring ${\rm CO_2}$ in order to assess ventilation systems and measure pollutants in the context of indoor air quality monitoring, the **CA 1510** is also an accurate preliminary diagnostic indicator thanks to its configurable alerts.





Possibility of locking the display when recording (no value displayed)

Quick, simple recovery of the data (product recognized as a USB key)

processing and report generation

Recording capacity of up to 1 million measurements

On-site calibration module with adapter, tube and software for adjusting the zero and the 1,700 ppm threshold

Multiple mounting systems



Large number of mounting options: magnetic, with padlockable wall support,

with desktop stand or hung on wall hook.



COMFORT AND HEALTH

Carbon dioxide is a colourless, odourless gas. Although it is non-toxic, it may cause difficulty concentrating, headache and nausea at high concentrations. It is not the only indicator of good indoor air quality: the temperature and humidity parameters can also contribute to the development of mould which may release allergenic and irritant substances.



With its large two-colour backlit screen, the CA 1510 can be used

to measure and display 3 parameters simultaneously (CO_2) temperature and RH). To make it simpler to use, integrated help is provided for interpretation of the level of comfort based on the CO₂ level and hygrothermal comfort criteria.

- 1D mode: indication of CO₂ confinement Visual (two-colour backlighting and pictograms) and/ or audible indication of high confinement if the CO₂ concentration is between the 2 configurable thresholds which can be modified to suit the requirements.
- 3D mode: indication of optimum comfort zone on the basis of the hygrothermal criteria and the CO₂ concentration.



SOFTWARE AND INTERFACE

Two communication modes are available: USB or Bluetooth. They can be used to configure the recordings, remote display on a PC or Android™ tablet and data display as a graph or as a table of values. They can also be used to export the data into Excel, to calculate the confinement index with selection of periods when people are present and to generate reports.

Data Logger Transfer software

provided as a standard feature





Android-compatible application

available from Play Store



Quick measurement and display of the CO2, temperature and relative humidity values

CO ₂ measurement			
Measuring principle	Non-diffusive infrared (NDIR) technology		
Type of sensor	Double-beam infrared cell sensor		
Measurement range	0 to 5,000 ppm		
Uncertainty	± 50 ppm ± 3 % of value measured		
Response time, 63 %	< 200 seconds		
Resolution	1 ppm		
Temperature measurement			
Type of sensor	CMOS		
measurement range	-10 °C to +60 °C		
Accuracy	± 0.5 °C		
Resolution	0.1 °C		
Humidity measurement			
Type of sensor	Capacitive		
Measurement range	5 to 95 % RH		
Accuracy	± 2 % RH		
Resolution	0.1 % RH		

Specifications				
Recording interval	Customizable from 1 minute to 2 hours			
Storage	More than 1 million measurements			
Buzzer	Yes			
Units	°C or °F			
Backlighting Display Hold function Min-Max	Yes			
Automatic power-off	Yes (in portable mode only)			
General specifications				
Product operating range	Temperature: -10 °C to +60 ° C – Humidity: 5 to 95 %RH			
Dimensions / weight	125 x 65.5 x 32 mm / 190 g with batteries			
Protection	IP40			
Compliance	IEC 61010-1 for 50 V in Category II – IEC 61326-1			
Power supply	- Alkaline batteries: 2 x 1.5 V AA / LR6 or rechargeable battery - Connection to mains possible with mains / micro USB adapter supplied as standard			
Interfaces	2 communication modes possible: - Bluetooth wireless communication - USB link; the product is then recognized as a USB key for easy file transfer			
Mounting	CA 1510 casing equipped with a magnet, a wall-suspension system and a slot for hanging the product. A wall support for use with a padlock (padlock not supplied) is available as an accessory, as is a desktop stand (supplied as standard with the CA 1510W).			
Functions of the Data Logger Transfer software supplied as standard	Graphic representation or as table of values – Data export – Real-time mode Report generation			

Types of use Point measurement

Monitorina

To order

Indoor air quality tester

Charcoal-grey CA 1510

P01651010

- Delivered in a small-format metal case with:
- 2 x LR6 batteries USB mains adapter
- USB-micro USB cable 1.80 m long
- Quick start-up guide
- Mini-CD containing the Data Logger Transfer software and the user's guides (one file per language)
- Verification attestation



Indoor air quality tester

White CA 1510.

Delivered in a cardboard box with:

- 2 x LR6 batteries
- USB mains adapter
- USB-micro USB cable 1.80 m long
- Desktop stand
- Quick start-up guide
 Mini-CD containing the Data Logger Transfer software
 and the user's guides (one file per language)
 Verification attestation



ACCESSORIES AND REPLACEMENT PARTS

	In-situ calibration kit (fits into in the metal case)	P01651022
	Hard case	
•	Desktop stand	P01651021
•	White Wall support	P01651020
•	Black Wall support	P01651024
•	USB mains adapter	P01651023
•	USB-Bluetooth adapter	P01102112

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