CHAUVIN ARNOUX

C.A 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













Government Offices, Transport, Workplaces, etc.

INDOOR AIR QUALITY

C.A 1510

∞ **758**ppm 249: 47,4≪

REGULATIONS

Whether in places open to the public (transport, government offices, schools or hospitals), workplaces or private areas, our lifestyles mean wespend 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 dassrooms, for example).

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

For measuring OO_2 in order to assess ventilation systems and measure pollutants in the context of indoor air quality monitoring, the **C.A 1510** is also an accurate preliminary diagnostic indicator thanks to its alerts set at 1,000 ppm or 1,700 ppm of OO_2 in the air.





C.A 1510

MAJOR ADVANTAGES

Supplied with software for data processing and report generation

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

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

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.



Schools, Hospitals

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 C.A 1510 can be used

to measure and display 3 parameters simultaneously (CO₂, 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 OO₂ confinement Visual (two-colour backlighting and pictograms) and/ or audible indication of high confinement if the OO₂ concentration is between 1,000 ppm and the upper threshold of 1,700 ppm.
- **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



Technical specifications

CO ₂ measurement			Types of use	
Measuring principle	Non-diffusive infrared (NDIR) technology		Point measurement Monitoring	Quick measurement and display of the CO_2 temperature and relative humidity values
Type of sensor	Double-beam infrared cell sensor			
Measurement range	0 to 5,000 ppm		Monitoring	1D mode : indication of CO ₂ confinement Visual (two-colour backlighting & pictograms) and/or audible indication of high
Uncertainty	\pm 50 ppm \pm 3 % of value measured			
Response time, 63 % < 200 seconds				confinement when the CO_2 concentration is between 1,000 ppm and a 1,700 ppm
Resolution	1 ppm			threshold.
Temperature measurement			Monitoring	3D mode : indication of optimum comfort zone on the basis of the hygrothermal criteria and the CO ₂ concentration.
Type of sensor	CMOS			Energy-saving (ECO): for fixed use on battery power, the product performs measurements every 10 minutes over a programmable time range for a battery life of up to one year.
measurement range	-10 °C to +60 °C			
Accuracy	± 0.5 °C			
Resolution	0.1 °C			
Humidity measurement				Triggering of programmed recording (P_REC) The start date, recording rate and end date can be customized with the PC software
Type of sensor	Capacitive		Logger	or the Android application. Possibility of locking the display in this mode (no values displayed).
Measurement range	5 to 95 % RH			
Accuracy	± 2 % RH			Manual triggering (M_REC)
Resolution	0.1 % RH			Manual start and stop controls on the product. Recording is performed at the rate of the mode currently selected.

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	EC 61010-1 for 50 V in Category II – EC 61326-1 – Compliance with French decree no. 2012-14			
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 pace (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			

To order

Indoor air quality tester Charcoal-grey C.A 1510

Delivered in a small-format metal case with:

Airflow Instruments Sdn Bhd

Email: sales@airflow.com.my

Tel: 03-8945 0668 Fax: 03-8942 9635

- 2 x LR6 batteries
- USB mains adapter
- USB-micro USB cable 1.80 m long
- Quick start-up guide ٠
- Mini-CD containing the Data Logger Transfer software and the user's guides (one file per language)
- Verification attestation



Indoor air quality tester White C.A 1510 P01651011 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

P01651020

P01651024

P01102112

ACCESSORIES AND REPLACEMENT PARTS

P01651022 In-situ calibration kit (fits into in the metal case)

- Hard case
- P01298071
- Desktop stand
- P01651021
- White Wall support
- Black Wall support
- USB mains adapter P01651023

Lot 5035, Jalan 18/62, Taman Sri Serdang, 43300, Seri Kembangan, Selangor, Malaysia.

· USB-Bluetooth adapter





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