

AERO

Indoor Air Quality | Energy Monitoring | Workspace management

Carbon Dioxide (CO₂), Volatile Organic Compounds (VOC), Temperature, Humidity, Atmospheric Pressure, Light, Noise, Motion



Aero measures the CO₂ level and continuously monitors air quality to visually alert occupants when it is time to air out to renew the indoor air.

With its multi-parameter measurement sensors, **Aero** is specifically designed to analyze the working environment of your teams.

Aero integrates the **iZiAiR** and **iZiFeel** air quality and comfort algorithms to more easily study each indoor environment and quickly identify possible improvements.

Thanks to its wireless communication module, data can be accessed remotely, simply from a smartphone or a computer screen *.

PRODUCT BENEFITS

- NDIR CO₂ sensor with performances validated by an independent laboratory
- LED indicator to visualize the CO₂ level or air quality level
- Complete set of sensors for a comprehensive analysis of the indoor environment
- Anti-theft fixing device for wall mounting
- Quick and easy installation
- No maintenance required

APPLICATIONS

- Monitoring of Indoor Air Quality in tertiary and residential buildings
- Supervision of ambient parameters at work (offices, meeting rooms)

AERO

FUNCTIONS

- Measurement of Indoor Air Quality
 - o Carbon Dioxide (CO₂)
 - o Volatile Organic Compounds (VOC)
- Measurement of ambient parameters
 - o Temperature
 - o Relative humidity
 - o Atmospheric pressure
 - o Light
 - o Noise (average and peak levels)
 - o Motion / Movement (PIR)
- Central button
 - o Short press: programmable action
 - o Long press: instant measurement and transmission
- Local (NFC) or remote (downlink) product configuration and diagnostics
- **iZiFeel** confort index
- **iZiAIR** Indoor Air Quality Index

Display of CO₂ level or Air Quality by indicator light (configurable)

-  Very good
-  Average
-  Warning

SPECIFICATIONS

Carbon Dioxide (CO₂)

Technologie : Dual channel Non-Dispersive InfraRed (NDIR)
Resolution: 1ppm
Accuracy: $\pm(30 \text{ ppm} + 3\% \text{ of measuring range})$
Measurement range: 0 – 10000ppm

Total Volatile Organic Compounds (VOCs)

Résolution : 1 $\mu\text{g}/\text{m}^3$
Accuracy: $\pm 25\%$
Measurement range: 0 – 10000 $\mu\text{g}/\text{m}^3$

Temperature

Resolution: 0.1°C
Accuracy: $\pm 0.3^\circ\text{C}$
Measurement range: -30°C / +70°C

Humidity

Resolution: 0.5% R.H.
Accuracy: $\pm 2\%$ R.H.
Measurement range: 0 - 100% R.H.

Atmospheric pressure

Resolution: 1 hPa
Accuracy: $\pm 2.5 \text{ hPa}$
Measurement range: 300 – 1100 hPa

Light

Resolution: 5lux
Accuracy: $\pm 5 \text{ lux}$
Measurement range: 0 – 1000 lux

Noise

Resolution: 1dB
Measurement range: 35 – 120dB

Motion

Technology: Passive InfraRed (PIR)
Angle: 90° (Vertical and Horizontal)
Detection distance: 7m

Frequency of measurements

Every 10 minutes (configurable)

Network pairing / Operation / CO₂ indicator / Air Quality indicator

1x RGB LED

Power supply

Powered by USB type-C (5V_{DC} – 1A)

Dimensions: 105 x 105 x 30 mm

Weight: 120g

Conditions of use

Indoor environment
Temperature: 0°C to + 50°C
Relative humidity: 0% RH to 95% RH

Lifetime: 10 years

Type of mounting

Wall mounted with anti-theft fixing
Free standing with removable support

Wireless protocol

LoRaWAN (868 MHz)
Other wireless protocols studied on request

PRODUCT REFERENCE

Aero (LoRaWAN): I430LR_FND_S

CONTENTS OF THE BOX

- 1 device
- 1 anti-theft wall bracket
- 1 standalone installation bracket
- 1 AC adapter + 1.80m USB-C cable
- 2 screws and nylon wall plugs
- 3M® double-sided adhesive attachment