ATMO

Indoor Air Quality   I   Energy Monitoring   I   Workspace management

Formaldehyde, Particulate Matter, Carbon Dioxide (CO_2), Volatile Organic Compounds (VOC), Temperature, Humidity, Atmospheric Pressure, Light, Noise, Motion

Atmo 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, **Atmo** is specifically designed to analyze the working environment of your teams.

Atmo 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

- Continuous Formaldehyde measurement
- NDIR CO2 sensor with performance validated by an independent laboratory
- Compact and design PM1, PM2.5 and PM10 Fine Particle Sensor
- LED indicator to visualize the 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)

* Optional subscription fees may apply

ATMO

FUNCTIONS

- Measurement of Indoor Air Quality
    - Formaldehyde (HCHO / CH_2O)
    - Particulate Matters (PM1, PM2.5 and PM10)
    - Carbon Dioxide (CO_2)
    - Volatile Organic Compounds (VOC)

- Measurement of ambient parameters
    - Temperature
    - Relative humidity
    - Atmospheric pressure
    - Light
    - Noise (average and peak levels)
    - Motion / Movement (PIR)

- Central button
    - Short press: programmable action
    - 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 Indoor Air Quality by indicator light (configurable)

    ◆ Very good

    ◆ Average

    ◆ Warning

SPECIFICATIONS

Formaldehyde (HCHO / CH_2O)
Resolution: 1 ppb
Accuracy: ±20 ppb or ±20% of measuring range
Measurement range: 0 – 1000 ppb

Particulate Matter (PM1 / PM2.5 / PM10)
Resolution: 0.1 µg/m^3
Accuracy: ±15 µg/m^3 or ±10% of measuring range
Measurement range: 0 – 2000 µg/m^3

Carbon Dioxide (CO_2)
Technology : Dual channel Non-Dispersive InfraRed (NDIR)
Resolution: 1ppm
Accuracy: ±(30 ppm + 3% of measuring range)
Measurement range: 0 – 10000ppm

Total Volatile Organic Compounds (VOCs)
Résolution: 1 µg/m^3
Accuracy: ±25%
Measurement range: 0 – 10000 µg/m^3

Temperature
Resolution: 0.1°C
Accuracy: ±0.3°C
Measurement range: -30°C / +70°C

Humidity
Resolution: 0.5% R.H.
Accuracy: ±2% R.H.
Measurement range: 0 - 100% R.H.

Atmospheric pressure
Resolution: 1 hPa
Accuracy: ±2.5 hPa
Measurement range: 300 – 1100 hPa

Light
Resolution: 5lux
Accuracy: ± 5lux
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 / CO_2 indicator / Indoor 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

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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
Freestanding with removable support

Wireless protocol
LoRaWAN (868 MHz)
Other wireless protocols studied on request

PRODUCT REFERENCE

Atmo (LoRaWAN): I665LR_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

CERTIFICATION

CE

*: except for the Formaldehyde sensor whose lifetime is 5 years and which requires an operating temperature below 40°C.