

# Indoor Air Quality Sensor



## Description

The LoRaWAN sensor from *Smart Box & GeoPortal* measures Indoor Air Quality (IAQ) in gyms, shops, classrooms, conference and waiting rooms, as well as any indoor areas where people gather. A high concentration of carbon dioxide (CO<sub>2</sub>) can develop quickly where there are people together within a confined space with insufficient ventilation of fresh air.

## Operation

The Indoor Air Quality Sensor measures CO<sub>2</sub>, temperature and humidity with high precision at set intervals and communicates this information through our portal.

The sensor is configurable to send alerts (moderate, severe, critical) based on the CO<sub>2</sub>, temperature, and humidity levels reached. The alerts are sent as they occur (in real time) via Telegram or email.

The sensor data is stored in the portal for analysis.

## Main Features

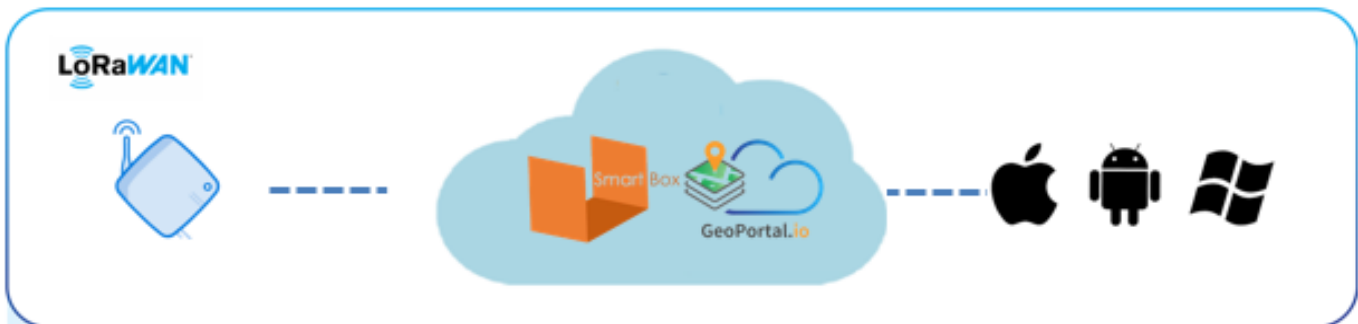
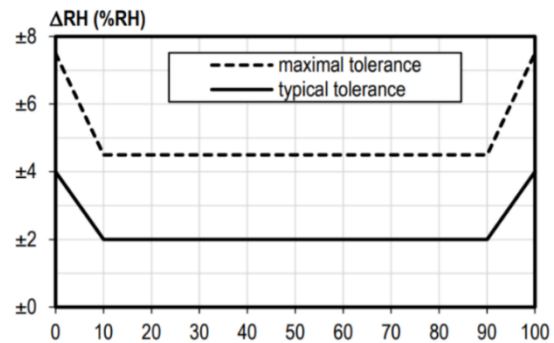
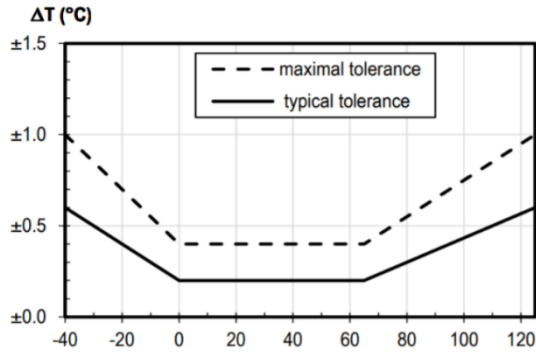
- Uses LoRaWAN technology
- Range of the wireless network: 5 km
- High precision CO<sub>2</sub> temperature and humidity measurements
- Autocalibration of the CO<sub>2</sub> sensor
- Replaceable batteries with over 5 years duration
- Easy to install and maintain



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# Specifications

CO <sub>2</sub>	
Range	0 – 2000 ppm
Accuracy	± 50 ppm ±3%
Temperature	
Range	0 ~ 40 °C
Resolution	0.1 °C
Accuracy	± 0.5 °C
Humidity	
Range	0 ~ 100 % HR
Resolution	0.1 %
Accuracy	± 2 % HR
Physical Characteristics	
Dimensions	86 x 86 x 28 mm
Recommended installation height	1.6 m
Weight	100 g including batteries



## Integrated Solution for Remote Monitoring