FREQUENTLY ASKED QUESTIONS

Does the smart Co_2 Sensor rely on the LoRa communication network to work?

No, In the unforeseeable event that communication is lost the onboard lights & alarms will still work.

How many sensors can be connected to one LoRa network?

Any number although Up to 1000 is the recommended amt.

Does this product have any certifications & approvals?

The product is CE, RoHS, WEEE certified and ETA approved.

How is the accuracy of the CO_2 Sensor maintained?

The product is calibrated before installation. Although very accurate & robust Action Electricians services the sensor on a yearly basis.

How wide is the area the sensor covers?

Up to 50 square meters.

What is the expected lifetime of the Co_2 Sensor?

Up to 15 years

What is the expected lead time?

It takes approx 21 days from the date of order.

How many Co_2 sensors can be installed a day?

Action Electricians can install about 40 to 50 Co_2 sensors a day.

What is a LoRa Network?

It is a communication protocol that can penetrate through concrete and brick walls over vast areas unlike wifi & bluetooth.

What are the costs associated with a smart CO_2 Sensor?

The costs associated with a smart CO_2 sensor are as follows:

- Each sensor has a yearly fee of approximately $110.00 (depending on the number of sensors installed at each location). This fee includes software licensing, network fees & a 12 month service check of each CO_2 sensor to ensure calibration.

EASY SETUP & INSTALL

The smart Co_2 sensor only requires a 240V mains outlet. The communication is through LoRa (a highly secured encrypted communication protocol that travels vast distances & penetrates through brick walls). You don't have to rely on your wifi to connect.

SMART CO2 LoRa SENSOR

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GREAT TOOL FOR FIGHTING COVID & MONITORING YOUR BUILDINGS AIR QUALITY

- ⚙ EASY INSTALLATION
- 🌡 Monitors CO_2 Levels Temperature & Humidity
- 📱 Email and SMS Alerts
- 🖥 View all Sensors on Dashboard with Live Monitoring
- 🔋 NO BATTERIES
- 🔒 Encrypted Transmission
- 🔗 Link up to 1000 CO_2 Sensors
- 👷 Designed & Engineered in Germany

CO$_2$ MONITORING TO LOWER CORONAVIRUS THREAT

Our approach of measuring the CO$_2$ content in an indoor environment comes from the world of "Internet of Things" (IoT). The spread of Covid-19 through exhalation of CO$_2$ containing tiny LIQUID droplets (aerosols) which can float in air for a long time. These droplets can contain the corona virus present in the lungs from an infected person. Research shows infection can be mitigated by monitoring CO$_2$ on site. With the use of the MUTELCOR Smart CO$_2$ LoRa Sensor, we offer a fast, simple and cost-effective solution for all institutions & buildings that want to prevent the further spread of the coronavirus with intelligent and smart measures. Our CO$_2$ Sensors are extremely accurate providing measurement every 2 seconds and offer smart, real-time LoRa-based communication with simple plug-and-play handling.

CENTRAL REPORTING FOR YOUR BUILDINGS HEALTH

The smart Co$_2$ sensor sends up to date real time data to a dashboard that can be accessed remotely. The dashboard layout can be customised according to the customer. You can also view the history of all values from minutes to years.

The smart Co$_2$ sensor also measures temperature & humidity. The monitoring of your building's air quality can now be centralised. You no longer need to rely on your existing & often desperate building management system to get accurate readings on air quality. The smart Co$_2$ sensors can also act as an overlay of measurement for temperature & humidity on your existing buildings heating & cooling system.
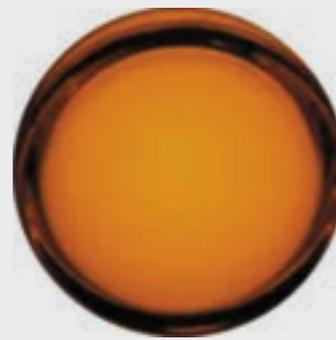

SMART CO$_2$ SENSOR

- Measure & Monitor CO$_2$ levels in Indoor environments
- Monitor Temperature & Humidity (Air Quality)
- Alert on Device (Buzzer and LED) at default CO$_2$ thresholds limit
- Communicate Emergency by flashing LED lights & buzzer on CO$_2$ device
- Trend Indication and Data Analysis
- Notify Responders

KEY FEATURES

- Real-time sensor measurement
- Automatic LED Alerts on threshold limits
- Configurable measurement Interval
- Regular Heartbeat at a configurable interval
- Secure Data Transmission

CO$_2$ SIGNAL – DEFAULT THRESHOLD LIMITS

- At 800 ppm, LED glows Yellow constantly
- At 1000 ppm, LED glows Red constantly
- At 1500 ppm, LED flashes Red and buzzer sounds for 5 seconds (3 beeps) every 10 minutes as long as values remain above 1450 ppm.
- When Co2 values fall back to below 1450 ppm the LED light stops flashing but remains on.
- Below 950 ppm, the Red LED goes off and Yellow LED goes on
- Below 750 ppm LED goes off
- The above settings are fully customisable

APPLICATION

- School Classrooms
- Offices and Conference Rooms
- Hospitals
- Villas/Apartments
- Shopping Malls
- Courtrooms, Banks and Hotels
- Cinemas

ALERTS & REAL TIME MONITORING AND SCHEDULED REPORTS

Dashboard comprises of the following segments:
- **Customizable Layout-** According to the customer
- **Real-time Update:** Values are updated immediately on dashboard
- **Track:** Keep track of surrounding

Time-intervals:

Freedom to view history on intervals of minutes, hours, day, week and year wise

Auto Generated Reports:

Reports are generated automatically (Weekly, Monthly & Yearly) and transferred to the end user via email.