

AXIS360-CO₂

CARBON DIOXIDE MONITORING

The Axis360-CO₂ LoRa® sensor is designed to monitor Carbon Dioxide levels. Suitable for confined spaces, cellars, boiler rooms (commercial or domestic) and other environments. The sensor provides frequent sampling every 15 minutes (or as needed) alerting instantly to concerning conditions. Providing immediate notification of potential risk to health.

Battery powered (for up to 10 years), with easy installation, the Axis360-CO₂ is an upgraded version of our Axis360-Room sensor. Alongside the CO₂ detection, it also senses temperature, humidity, PIR movement and light sensor. The sensor works over the LoRaWAN network for Licence free communication over either private or public LoRaWAN™ networks. A fully CE certified device, configurable over NFC and easy re-calibration as required. Up to 10 years battery life, on user changeable AA batteries.

- Non-Dispersive Infrared (NDIR) sensor up to 2,000ppm
- Recalibration by users (400ppm for 20 minutes)
- Accurate Temperature and Humidity sensors
- Up to 20 Km in rural areas or 500 metres inside buildings*
- LoRa® Alliance Certified, LoRaWAN™ ready, CE certified



DESCRIPTION

A LoRaWAN™ Carbon Dioxide Non-Dispersive Infrared sensor enclosed in a small ABS box (86mm x 86mm x 26mm) with screw fixings. Inside it has four internal sensors: CO₂, temperature, humidity, movement (PIR) and light sensors. It is powered by two 3.6V lithium battery capable of performing for up to 10 years. The sensors equipped with NFC (Near Field Communication) for easy configuration from an Android phone. Additional calibration of CO₂ also via the NFC app. All sensors available on the common LoRaWAN™ Channel plans.

Solutions

- Office, Food outlet, Air Quality
- Confined Spaces, Cellars, Voids
- Residential flats boiler CO₂ alerting
- CO₂ Cylinder storage leak detection

SPECIFICATION

Co-2	(LP8)	Non-Dispersive Infrared	2,000 PPM (Tolerance ±50ppm)
Movement	(PIR)	Sensitivity: 10 metres	Stabilise: 30 to 60 seconds
Temperature	(SHT30)	Accuracy: 0°C to 65°C	Tolerance: ±0.3°C
Humidity	(SHT30)	Accuracy: 0% to 100%	Tolerance: ±3% rh
Light	()		
Battery	(3.6v AA lithium)	Accuracy:	

OPERATION

Operating temperature	Min	-0°C	Max	+80°C
Communication range	Rural	20 Km*	Urban	3 Km*
Power expectancy	Min	1 year	Max	10 years

* Subject to environmental factors and placement of sensors and gateways