# OY1210 LoRaWAN CO2 meter

LoRaWAN sensor that measures **temperature, humidity and carbon dioxide**, with an incredible **maintenance free lifetime of 5 years at a 15-minute measurement interval**. Easy to use, configurable over the air and stylish in design to fit into indoor spaces.

**Typical use cases:**

Indoor climate control

School buildings, office spaces, living spaces

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## *Technical specification*

**Operating principle**

Non-dispersive infrared (NDIR) Yes
Sample method                Diffusion

**Accuracy and range**

Temperature accuracy    ± 0,2 °C (conditions 0 °C to +50 °C)
Temperature range       -20 °C to +60 °C
Humidity accuracy       ± 2% (conditions 10-90% RH)
Humidity range          0% to 100% non-condensing
Measurement range $CO_2$    400 – 5000 ppm
Accuracy $CO_2$             ±50ppm ±3% of reading
RMS noise $CO_2$            0.7ppm @ 400ppm
                        1.4ppm @2000ppm (filtered)

*Accuracy of ±0,1 °C and ±1,5% humidity available upon request*

**Connectivity**

Network            LoRaWAN
Frequency bands    868 MHz
Provisioning       Over the air & personalization

**Size**

Size      111 x 77 x 26 mm
Weight    75g

**Security**

Algorithms    AES-128
Hardware      Cryptographic co-processor
Features      Secure boot
              Secure firmware upgrade

*Hardware based ultra secure key storage*

**Battery life**

Battery life length    >5 years (at 15 minute intervals, SF7)
Battery type           2x Lithium-thionyl 3.6V (replaceable)
Capacity               3.6Ah

**Configuration**

Measurement intervals    15 minutes, configurable over the air
Transmission intervals   15 minutes, configurable over the air

*Unique App EUI available upon request*

**Enclosure**

IP30

**Certifications**

RoHS compliant
CE
LoRaWAN