



LoRaWAN Sensor Device

CO₂, Temperature, Humidity, Barometric Pressure



Sensors

CO₂

Range: 0 ... 10 000 ppm

Accuracy: ± 50 ppm, ± 3 % of reading

Air temperature

Range: -40 ... +125°C

Accuracy: ± 0.3 °C

Air humidity

Range: 0 ... 100% RH

Accuracy: ± 2 % RH

Barometric pressure

Range: 300 ... 1100 hPa

Accuracy: $\sim \pm 1$ hPa (absolute), ± 0.12 hPa (typical)
equivalent to ± 1 m

LoRaWAN specifics

Device class A

Over the air activation (OTAA)

Adaptive data rate (ADR)

Frequency band:

EU868 MHz (EU Version), US915MHz (US Version),
AS923 (Asia Version) or AU920 (Australia Version)

Input Sensitivity: -148 dBm (EU Version)

Supply

Internal battery 2 x C-type

Integrated sensor supply

Operating conditions

-30°C to 60°C

100% RH

Weight

250g w/o batteries

Dimensions

80 x 135 x 70 mm

Enclosure

Weatherproof IP67, impact and UV- resistant polycarbonate enclosure

Dimensional drawings (gas inlet to be defined)

