

## LPWAN Environmental device

LPWAN Environmental device has been designed for indoor air quality monitoring and can be delivered in various combination of air quality sensors:

- ✓ Thermometer
- ✓ Humidity meter for air relative humidity
- $\checkmark$  Air pressure
- ✓ CO2

The device is battery operated and battery lifetime depends on device equipment. C02 is most energy consuming component, however the device is still capable to run over 2 years with 2 lithium batteries. Enclosure is made of high-quality ABB plastic and has been designed to meet high demanding interior requirements. Front panel is made in high bright surface.

## Usage

- Air quality monitoring in public buildings, such as schools, offices etc.
- Air condition optimization
- Wall mold prevention
- Persons presence detection



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LPWAN Environmental device	Parameter
Protection	IP20
Power supply	3.6V lithium battery 14505(M)/2600mAh, 2 batteries possible
Power consumption	<3,5uA in deep sleep/80mA transmission (Sigfox, LoRa) / 500mA (NBIoT)
Battery lifetime	Aprox. 20 000 transmissions
Supported LPWAN standards	Sigfox, LoRaWAN, NBIoT (one of selected upon order)
Dimensions	100 x 100 x 25 mm
Weight standard/radiation	130g
Sensor temperature/humidity/air pressure	BME280/ T accuracy 0.5°C/RH accuracy +/-3%, range -40 to 85°C/0 to 100%RH/300 to 1100hPa
CO2 sensor	SCD30 NDIR CO2 measurement, range of measurement from 400 to 10000ppm
Accelerometer, tamper contact	Optional, antitheft protection
Antenna/typical range	PCB, gain 2.5dBi/45 to 110km depends on LPWAN technology



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