



# LPWAN Temperature & Air Humidity IP65/IP20

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
- ✓ Air pressure (optional)

The device is battery operated and battery lifetime has been optimized by selection of high quality and ultra low power components. 5+ year between battery replacement can be expected. 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. IP65 boxes are available in gray, black or white color.

## Usage

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



**IP20**



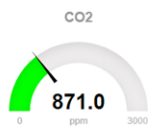
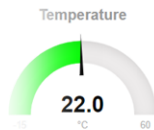
**IP65**

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 (NBLoT)
Battery lifetime	Aprox. 20 000 transmissions
Supported LPWAN standards	Sigfox, LoRaWAN, NBLoT (one of selected upon order)
Dimensions	100 x 100 x 25 mm
Weight standard/radiation	130g
Sensor temperature/humidity/air pressure	SHT31/ T accuracy 0.5°C/RH accuracy +/-3%, range -40 to 85°C/0 to 100%RH
Accelerometer, tamper contact	Optional, antitheft protection
Antenna/typical range	PCB, gain 2.5dBi/45 to 110km depends on LPWAN technology





Battery:  
 Temp: 22°C  
 RH: 47.2%  
 CO2: 871ppm



History:

Date	Time	Batt	Signal	Temp	RH	CO2
2019-11-21	08:19:31	3.57V	-65dB	22°C	47.2%	871ppm
2019-11-21	07:19:32	3.54V	-67dB	22.1°C	47.7%	1347ppm
2019-11-21	06:19:39	3.54V	-67dB	22°C	47.4%	1227ppm
2019-11-21	05:19:32	3.57V	-66dB	21.8°C	47.4%	1229ppm
2019-11-21	04:19:33	3.57V	-67dB	21.6°C	47.6%	1229ppm

