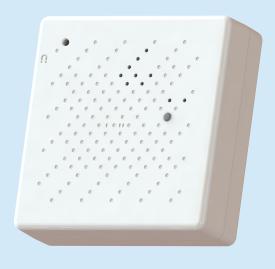




Smart Room Sensor - CO2

LoRaWAN® connected Indoor Ambient Environment Monitoring

The Smart Room Sensor CO2 integrates practical functionality into a very small form factor and is an ideal solution for holistically monitoring ambient indoor environments. The device measures and reports real-time CO2 levels, temperature, humidity and light in its surrounding environment. The sensor is optimized for long battery life and excellent wireless performance with deep indoor coverage capabilities in any home, school, office, enterprise or commercial environment. The device is fully configurable overthe-air by the user for custom applications, thresholds, trigger events and reports. The Smart Room Sensor CO2 supports autocalibration with settable intervals. Furthermore, the CO2 can be calibrated through the application or manually.



Features

- >>> User Configurable Parameters and Thresholds
- >>> Designed for Optimal Battery Life
- Ambient Indoor Environment Monitoring
- Long Battery Life
- Wall, Ceiling or Table Mount Configurations
- >>> Simple Deployment
- Sleek and Unobstructed Design

Applications

- Temperature
- >> Humidity
- >> Light
- Barometric Air Pressure
- CO2 Concentration

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Technical and Functional System Specifications

General System Parameters

Optimized Battery Life

| Operational Temperature | 0°C to 60°C | Operational Temperature | 15-25°C | | | |
|-----------------------------------|--|-------------------------|---------------------------|--|-------|-------|
| Storage Temperature | -40°C to 60°C | Tx Power | 14 dBm | | | |
| Relative Humidity- Operational | 5% - 95% Non-Condensing (Operational) | | 30 Se | conds | 60 Se | conds |
| Ingress Protection | IP30 | Transmission | SF 10 | SF 7 | SF 10 | SF 7 |
| Size | 71 x 71 x 26 mm (with mounting clip) | 4 packets / hour | 2.6 | 3.0 | 3.3 | 3.8 |
| | 71 x 71 x 23 mm (without mounting clip) | 3 packets / hour | 2.8 | 3.1 | 3.6 | 4.0 |
| Weight (including batteries) | 91g (with Battery) | 2 packets / hour | 3.0 | 3.2 | 3.8 | 4.2 |
| Battery | 2x AA LID or 2x AA Alkaline | 1 packets / hour | 3.2 | 3.3 | 4.2 | 4.4 |
| Wireless Parameters | | 1 packets / day | 3.4 | 3.4 | 4.5 | 4.5 |
| RF Power | 15 dBm | | | | | |
| RF Sensitivity | -137dBm | Regulatory Compliance | | | | |
| LoRa Radio | SX1261 | Safety | UL 62368-1 IEC 60529-1 | | | |
| Supported ISM Bands | All Regions Identified by LoRa | Regulatory | ETSI EN | ETSI EN 300 220-1/-2 ETSI EN 301-489-1/-3 | | |
| | Alliance | | ETSI EN | | | |
| Antenna | Internal | | FCC 15.247 FCC 15.209 | | | |
| | | | | | | |

Sensing Functions

LoRa Device Class

| Temperature: 0-60C +/- 0.5C | | | |
|-----------------------------------|--|--|--|
| Humidity: 0-100% +/- 3% | | | |
| Light: 5-1000 lux | | | |
| Reed Switch: On/Off | | | |
| Barometer: 300 -1200 hPa +/- 1hPa | | | |
| CO2: 400-5000ppm +/- 30ppm | | | |

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Specifications subject to change without notice*

TEKTELIC Communications is a premier supplier of best-in-class LoRaWAN® IoT Gateways, Sensors, and custom applications. These elements combined provide a powerful end-to-end solution that can be easily, quickly, and cost effectively deployed to address the most demanding IoT challenges.

For more information please visit www.tektelic.com