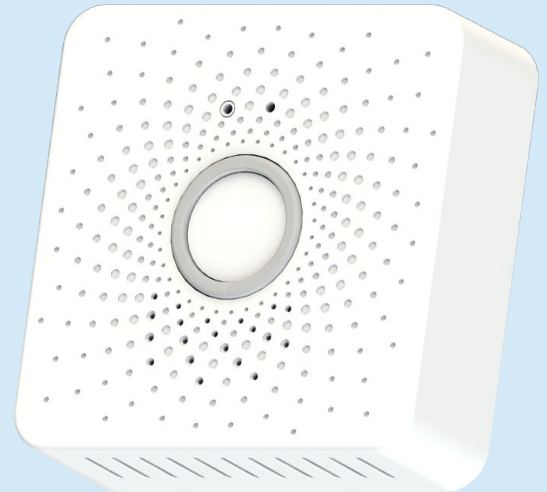


# TEKTELIC BREEZE

## A LoRaWAN® connected CO2 Monitoring Solution

The TEKTELIC BREEZE Is a member of our Smart Room Sensor family and integrates practical functionality into a very small form factor. With two variants options, it is an ideal solution for holistically monitoring ambient indoor environments. BREEZE measures and reports real-time CO2 levels, temperature, humidity and light in its surrounding environment, while the BREEZE-V also has additional PIR for motion detection.

- Smart Home & Office
- Schools & Universities
- Retail
- Public Buildings
- Ambient Air Quality Monitoring
- Indoor Environment Monitoring
- Facility Management
- HVAC Optimization



### Features

- » User Configurable Parameters and Thresholds
- » Designed for Optimal Battery Life
- » Pairable with E-Ink Display
- » Wall, Ceiling or Table Mount Configurations
- » Simple Deployment
- » Sleek and Unobstructed Design
- » Ambient Indoor Environment Monitoring

### Applications

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

# TEKTELIC BREEZE

## A LoRaWAN® connected CO2 Monitoring Solution

### Technical and Functional System Specifications

#### General System Parameters

|                               |   |
|-------------------------------|---|
| Operational Temperature       | 0°C to 60°C                             |
| Storage Temperature           | -40°C to 60°C                           |
| Relative Humidity-Operational | 5% - 95% Non-Condensing (Operational)   |
| Ingress Protection            | IP30                                    |
| Size                          | 80 x 80 x 30 mm (with mounting clip)    |
|                               | 80 x 80 x 26 mm (without mounting clip) |
| Weight (including batteries)  | 91g (with Battery)                      |
| Battery                       | 2x AA LTC                               |

#### Optimized Battery Life

|                         |                          |
|-------------------------|--------------------------|
| Operational Temperature | 15-25°C                  |
| Tx Power                | LoRa: 15dBm    BLE: 0dBm |

#### Battery Life in Years

| Report Frequency                                 | SF 10 | SF 7 |  |
|--|-------|------|--|
| Every 5 min (active),<br>Every 1 hr (inactive)   | 5.0   | 8.4  | Active: 10 hours during weekdays                   |
| Every 5 min (active),<br>Every 30 min (inactive) | 4.3   | 7.6  | Inactive: Rest of the week outside of active hours |
| Always reports every 15 minutes                  | 5.2   | 8.8  |  |

#### Wireless Parameters

|                     | LoRa                                    | BLE              |
|---------------------|---|------------------|
| RF Power            | 15 dBm                                  | 0 dBm            |
| RF Sensitivity      | -137dBm                                 | -96 dBm (1 Mbps) |
| Radio               | SX1261                                  | STM32WB          |
| Supported ISM Bands | All Regions Identified by LoRa Alliance | 2.4GHz ISM       |
| Antenna             | Internal                                | Internal         |
| LoRa Device Class   | A                                       | /                |

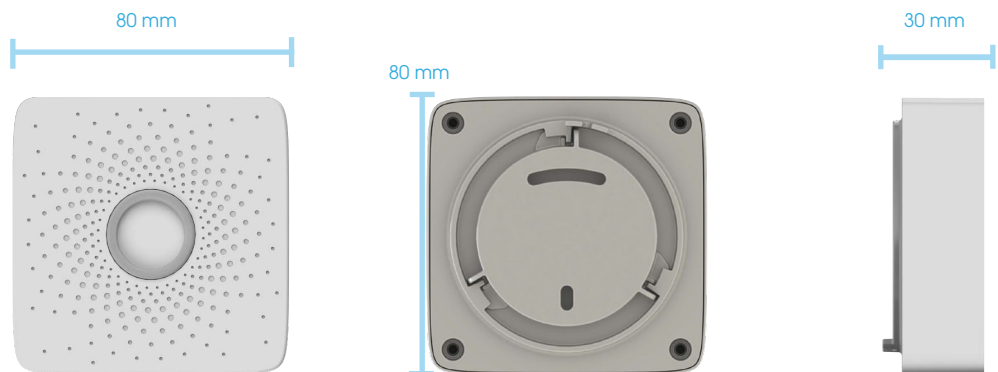
#### Regulatory Compliance

|            |                                    |
|------------|------------------------------------|
| Safety     | IEC 60529-1                        |
| Regulatory | ETSI EN 300 220 -1/-2              |
|            | ETSI EN 301-489-1/-3               |
|            | FCC 15.247, FCC 15.209, FCC 15.109 |
|            | ICES-003, RSS-247, RSS-Gen         |

Specifications subject to change without notice\*.

#### Sensing Functions

|             |                                      |
|-------------|--------------------------------------|
| Temperature | 0-60C +/- 0.3C                       |
| Humidity    | 0-100% +/- 4%, 20-80% +/- 2%         |
| Light       | 5-1000 lux                           |
| Barometer   | 300 -1200 hPa +/- 1hPa               |
| CO2         | 400-5000ppm +/- 30ppm +3% of reading |



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](http://www.tektelic.com)