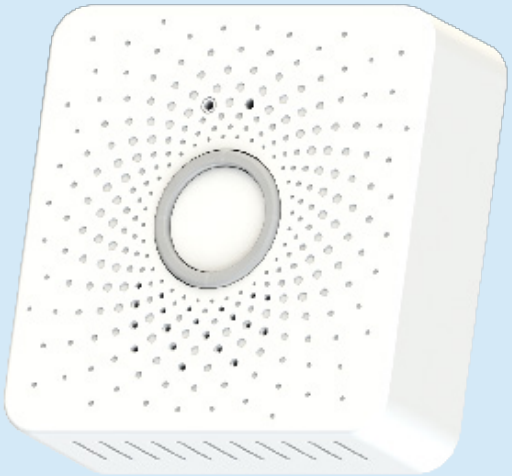
TEKTELIC communications
LoRa Alliance Member

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
- Buzzer Alert Notifications
- 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

INFO@TEKTELIC.COM
+1.403.338.6900
WWW.TEKTELIC.COM

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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 mins (active) Every 1hr (Inactive)	4.9	8.4
Every 5 Minutes (active) Every 30 mins (Inactive)	4.3	7.6

Active: 10 hours during weekdays

Inactive: Rest of the week outside of active hours

Wireless Parameters

	LoRa	BLE
RF Power	15 dBm	0 dBm
RF Sensitivity	-137dBm	-94.8dBm (1Mbps)
Radio	SX1261	EFR32BG13 (MCU)
Supported ISM Bands	All Regions Identified by LoRa Alliance	2.4GHz ISM
Antenna	Internal	Internal
LoRa Device Class	A	/

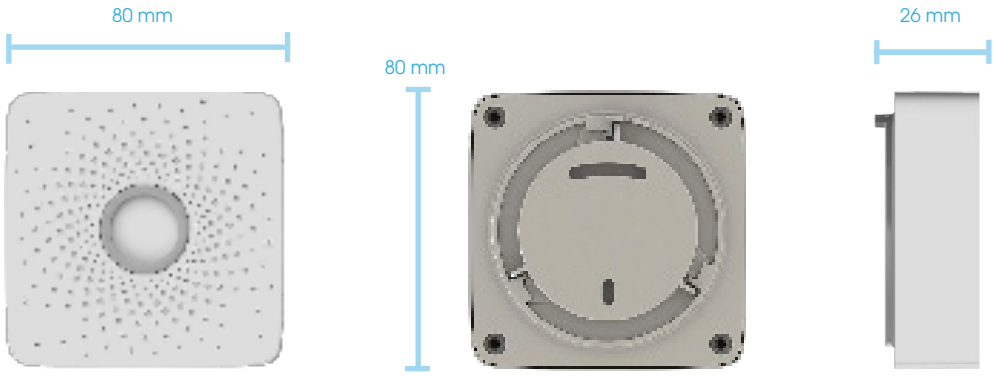
Regulatory Compliance

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

Specifications subject to change without notice*.

Sensing Functions

Temperature: 0-60C +/- 0.3C
Humidity: 5-95% +/- 4%
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