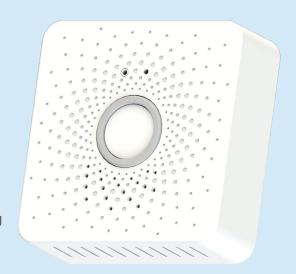


TEKTELIC BREEZE

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

- NDIR (Non-Dispersive Infrared) Technology is used for CO2
- >>> 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: OdBm

Battery Life in Years

Report Frequency	SF 10	SF 7
Every 5 min (active), Every 1 hr (inactive)	5.0	8.4
Every 5 min (active), Every 30 min (inactive)	4.3	7.6
Always reports every 15 minutes	5.2	8.8

Active: 10 hours during weekdays

Inactive: Rest of the week outside of active hours

Wireless Parameters

LoRa	
------	--

	П	г	
м		-	

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	А	/

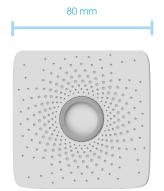
Regulatory Compliance

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 (using NDIR Sensor)	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.