

TEKTELIC BREEZE-V

LoRaWAN® connected Indoor Ambient Environment Monitoring

The TEKTELIC BREEZE-V 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 light and motion detection in its surrounding environment.



- 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
» Multiple PIR Masking Options
» 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
» Motion Detection

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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 33 mm (with mounting clip)
	80 x 80 x 30 mm (without mounting clip)
Weight (including batteries)	91g (with Battery)
Battery	2x AA LTC

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	/

Sensing Functions

Temperature: 0-60C +/- 0.3C
Humidity: 5-95% +/- 4%
Light: 5-1000 lux
Human Motion Detection
CO2: 400-5000ppm +/- 30ppm +3% of reading
Barometer: 300 -1200 hPa +/- 1hPa

Optimized Battery Life

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

Battery Life in Years

Report Frequency	SF 10	SF 7	Active: 10 hours during weekdays Inactive: Rest of the week outside of active hours
Every 5 mins (active)	4.1	6.5	
Every 1hr (Inactive)			
Every 5 Minutes (active)	3.7	5.9	

PIR Detection Range (Ceiling Mount)

X Angle	104° (No mask)
Y Angle	104° (No mask)
Height	3 m (No mask)

* Assumes object in center of field of view

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*.



UC-Wireless is a leading MEA distributor of best-of-breed communication technology and systems. As part of our comprehensive solutions, we proudly distribute TEKTELIC Communications, a premier manufacturer of world-class LoRaWAN® IoT Gateways, Sensors, and custom applications. Partnering with TEKTELIC and our other OEMs allows us to deliver enterprise-grade, end-to-end IoT solutions that are easily, quickly, and cost-effectively deployed across industries to meet even the most demanding IoT challenges. Visit us at uc-wireless.com for more information.