



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**
- **Ambient Air Quality Monitoring**
- Schools & Universities •
- **Indoor Environment Monitoring**
- Retail
- **Facility Management**
- **Public Buildings**
- **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

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 mins (active) Every 1hr (Inactive)	4.1	6.5
Every 5 Minutes (active) Every 30 mins (Inactive)	3.7	5.9

Active: 10 hours during weekdays Inactive: Rest of the week outside of active hours

Wireless Parameters

	LONG	DLL
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	А	/

LoRa

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

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

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

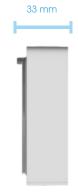
Specifications subject to change without notice*











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