

TEKTELIC VIVID v3

LoRaWAN® PIR Smart Room Occupancy Sensor

Enhanced **TEKTELIC VIVID v3** device, now with a ruggedized IP65 design and superior motion detection. This compact device continues to provide comprehensive monitoring of temperature, humidity, light, accelerometer, magnetic switch and PIR, supporting multiple PIR lens options. TEKTELIC VIVID v3 combines a user-friendly twist-lock mounting mechanism with easy battery access and improved battery-life reporting, making it the ultimate solution for holistic monitoring in any environment.



Sensing Functions



AMBIENT
TEMPERATURE



AMBIENT RELATIVE
HUMIDITY



AMBIENT LIGHT



AMBIENT MCU
TEMPERATURE



ACCELEROMETER



MAGNETIC HALL EFFECT
SENSOR



MOVEMENT DETECTION
VIA HALL EFFECT
(DOORS, WINDOWS, DRAWERS)



MOTION DETECTION

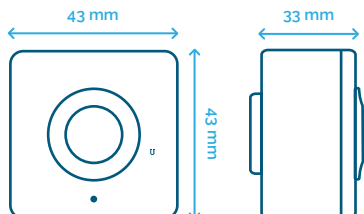


BATTERY LEVEL
INDICATOR

Features

- ✓ **4+ year battery life*** enabled by a low-power design for extended maintenance-free operation
- ✓ **TEKTELIC Locus™ integration** for centralized device, data, and fleet management
- ✓ **Compatible with standard LoRaWAN® gateways and network servers** for broad interoperability
- ✓ **Quick and easy device onboarding & data viewing** using TEKTELIC LeapX™ mobile application
- ✓ **User-configurable parameters and thresholds** allow the device to be tailored to a wide range of monitoring applications
- ✓ **Rapid deployment** for scalable commercial and enterprise installations
- ✓ **Multiple PIR masking options** tailor the sensor's motion detection to specific areas, ensuring privacy and providing flexibility
- ✓ **Remaining battery life reported** in percentage
- ✓ **64-pixel PIR array and quality lens** ensure accurate occupancy detection with fewer false triggers
- ✓ **Optimized for both extended-range room occupancy detection and close-range desk-level occupancy detection**
- ✓ **TEKTELIC Kona Atlas™ support** for payload encoding and decoding

* Actual battery life varies based on configuration, data rate, and operating temperature.



Technical and Functional System Specifications			
General System Parameters			
Operational Temperature	0°C to 60°C (10°C to 40°C optimal for battery life)		
Storage Temperature	-30°C to 60°C (0°C to 30°C optimal for battery life)		
Operational Relative Humidity	5% - 95% Non-Condensing		
Ingress Protection	IP65		
Size	43 x 43 x 33 mm		
Weight (including batteries)	377 g		
Battery	1 x CR2477		
Battery Life			
Reporting Period - 60 min @SF7	4 years		
Reporting Period - 60 min @SF10	3.5 years		
Wireless Parameters (LoRa)			
RF Power (Max)	13 dBm		
RF Sensitivity	-137 dBm (SF12, 125 kHz)		
Channel Plans	EU868, US915, AU915, AS923-1,-2,-3,-4, IN865, KR920		
Antenna	Internal		
LoRa Device Class	Class A		
Specification Version	1.0.4		
Sensor Specifications	Range	Accuracy	Resolution
Ambient Temperature	0°C to 5°C	+/- 0.3°C	0.1°C
	5°C to 60°C	+/- 0.2°C	0.5%
Ambient Relative Humidity	0% - 20%	+/- 4%	
	20% - 80%	+/- 2%	
	80% -100%	+/- 4%	
Ambient Light	5-1000 lux	N/A	N/A
Accelerometer	Configurable Measurement Range: ±2 g, ±4 g, ±8 g, ±16 g	Zero-g Offset Accuracy: ±40 g	Configurable Mode-Dependent Resolution: 8-bit, 10-bit, 12-bit
PIR Detection Range*	Wall Mount X Angle: 94° Y Angle: 20° Height: 4 m	Ceiling Mount X Angle: 86° Y Angle: 74° Height: 2.67 m	Desk Mount X Angle: 86° Y Angle: 74° Height: 0.75 m
Certifications & Compliance			
Regulatory	FCC, ISED, CE (RED)		
Product Safety	IEC 62368-1		
Environmental	RoHS		

* Assumes object in center of field of view

TEKTELIC Communications is a premier supplier of complete LoRaWAN® IoT solutions. Our end-to-end systems combine network infrastructure, devices, and applications to enable easy, fast, and cost-effective deployment for the most demanding IoT challenges.