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.

IP 65 | **4 + YEARS**

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
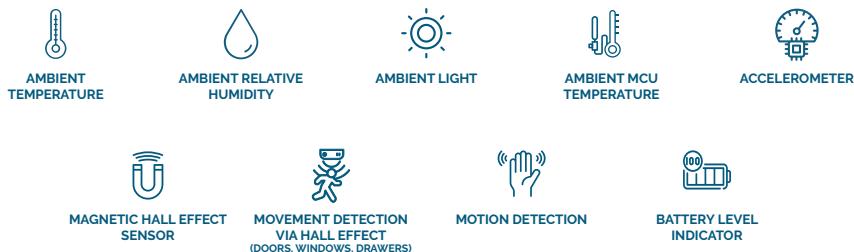
Features

✓ **4+ year battery life*** enabled by a low-power design for extended maintenance-free operation

✓ **Compatible with standard LoRaWAN® gateways and network servers** for broad interoperability

✓ **User-configurable parameters and thresholds** allow the device to be tailored to a wide range of monitoring applications

✓ **Multiple PIR masking options** tailor the sensor's motion detection to specific areass, esuring privacy and providing felxibility

✓ **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

✓ TEKTELIC **Locus™ integration** for centralized device, data, and fleet management

✓ **Quick and easy device onboarding & data viewing** using TEKTELIC **LeapX™** mobile application

✓ **Rapid deployment** for scalable commercial and enterprise installations

✓ **Remaining battery life reported** in percentage
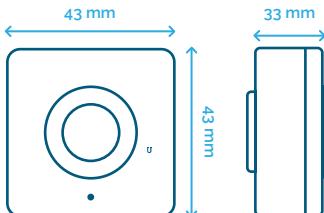
* Actual battery life varies based on configuration, data rate, and operating temperature.

43 mm

33 mm

43 mm

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)	37.7 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)	14 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

Sensor Specifications	Range	Accuracy	Resolution
Ambient Temperature	0°C to 60°C	+/- 0.3°C	0.1°C
Ambient Relative Humidity	0% - 100%	+/- 4%	0.5%
	20% - 80%	+/- 2%	
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: 940 Y Angle: 200 Height: 4 m	**Ceiling Mount** X Angle: 860 Y Angle: 740 Height: 2.67 m	**Desk Mount** X Angle: 860 Y Angle: 740 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.