

## **VIVID v2 Smart Room Sensor PIR**

## **LoRaWAN®** connected Home and Office Environment Monitoring

**Enhanced TEKTELIC VIVID v2 device,** now with a ruggedized IP65 design and Field of View temperature for improved monitoring of the home and office environment. This compact device continues to provide comprehensive monitoring of temperature, humidity, light, and motion. TEKTELIC VIVID 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.

- · Smart Home & Office
- Room Occupancy
- Facility Management
- Indoor Environment Monitoring
- Desk Occupancy
- Point of Entry Security
- HVAC Optimization



# Technical and Functional System Specifications

#### **General System Parameters**

Operational Temperature	0°C-60°C
Operational Humidity	5% - 95%, non-condensing
Ingress Protection	IP65
Size	43 x 43 x 22 mm
Weight	37.7 g (with battery)
Battery	CR2477
Battery Life*	3.5 Years

<sup>\*3.5</sup> Years of battery life with Baseline use case, Temperature 23°C, Tx power 14 dBm, LoRa SF 10, Tx periodicity 68 times/per.

### **LoRa Parameters**

RF Power	14 dBm
RF Sensitivity	Up to -137dBm
ISM Band	All Global ISM Bands
Antenna	Internal
LoRa Device Class	Class A & Class C*

<sup>\*</sup>Please note that class C will significantly lower battery life.

### **Key Features and Applications**

<b>&gt;&gt;</b>	Motion	/Procence	Detection
		/ Presence	Defection

Field of View Temperature

Light Detection (On / Off)

Temperature Measurement

Humidity Measurement

Movement Detection

User Friendly Twist-Off Mounting & Battery Access

Remaining Battery life estimated as a percentage

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### **Regulatory Compliance**

Safety	IEC 60950-1 (CE)	
Regulatory	ETSI EN 300 220	
	ETSI EN 301-489-1/-3	
	FCC 15.247 FCC 15.209	

Specifications subject to change without notice.

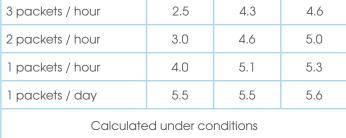
### PIR Detection Range (Wall Mount)

X Angle	94°
Y Angle	20°
Z Range	4 m

#### PIR Detection Range (Wall Mount)

X Angle	86°
Y Angle	74°
Z Range	2.67 m

Assumes object in center or field of view.



125 kHz

2.2

500 kHz

4.4

125 kHz

4.0

Optimized Battery Life (Years) - CR2477

Transmission

4 packets / hour

Calculated under conditions		
Operational Temperature	20°C	
Tx Power	14 dBm	
Rx Cycle/Hour	1	



