

# 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

\*3.5 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*

\*Please note that class C will significantly lower battery life.

### Key Features and Applications

- » Motion/Presence Detection
- » 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.

### Optimized Battery Life (Years) - CR2477

Transmission	SF 10 125 kHz	SF 7 125 kHz	SF 8 500 kHz
4 packets / hour	2.2	4.0	4.4
3 packets / hour	2.5	4.3	4.6
2 packets / hour	3.0	4.6	5.0
1 packets / hour	4.0	5.1	5.3
1 packets / day	5.5	5.5	5.6

Calculated under conditions

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



TEKTELIC Communications is a premier supplier of best-in-class LoRaWAN® IoT Gateways, Sensors, and custom applications. These elements combined provide a powerful end-to-end solution that can be easily, quickly, and cost effectively deployed to address the most demanding IoT challenges.

For more information please visit [www.tektelic.com](http://www.tektelic.com)