

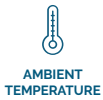
TEKTELIC VIVID v3

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.

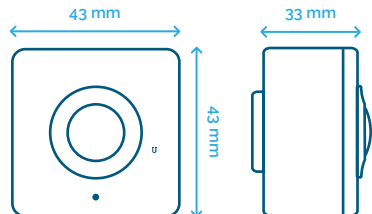


Sensing Functions



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) | 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) | 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 | |
| Ambient Relative Humidity | 0% - 20% | +/- 4% | 0.5% |
| | 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.