

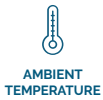
# TEKTELIC VIVID v2

## LoRaWAN® connected Home and Office Environment Monitoring

The enhanced TEKTELIC VIVID v2 features a rugged IP65-rated design and improved field-of-view temperature sensing for more accurate monitoring in home and office environments. This compact device measures temperature, humidity, light, and motion to provide comprehensive insight into indoor conditions. It delivers advanced presence detection for reliable desk occupancy and short-range activity monitoring, along with accelerometer and magnetic sensing for device and nearby object movement. A user-friendly twist-lock mount, easy battery access, and improved battery-life reporting make VIVID v2 a robust and adaptable solution for holistic environmental monitoring.

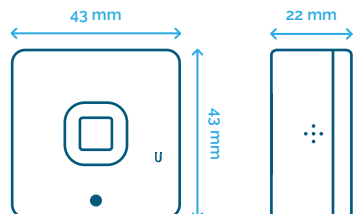


### Sensing Functions



### 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
- ✓ **Uses TMOS thermal infrared sensing to detect stationary human presence** by measuring emitted body heat
- ✓ **Remaining battery life reported** in percentage
- ✓ **Optimized for close-range, desk-level occupancy detection**
- ✓ **Onboard accelerometer supporting orientation, acceleration, vibration, and impact** event 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**

| <b>General System Parameters</b>       |  |                                  |   |
|--|--|----------------------------------|---|
| 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 22 mm  |                                  |   |
| Weight (including batteries)           | 37.7 g   |                                  |   |
| Battery                                | CR2477   |                                  |   |
| <b>Battery Life</b>                    |  |                                  |   |
| Reporting Period - 60 min @SF7         | 4 years  |                                  |   |
| Reporting Period - 60 min @SF10        | 3.5 years  |                                  |   |
| <b>Wireless Parameters (LoRa)</b>      |  |                                  |   |
| 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 & Class C*   |                                  |   |
| Specification Version                  | 1.0.4  |                                  |   |
| <b>Sensor Specifications</b>           | <b>Range</b>   | <b>Accuracy</b>                  | <b>Resolution</b>   |
| 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:<br>±2 g, ±4 g, ±8 g, ±16 g | Zero-g Offset<br>Accuracy: ±40 g | Configurable Mode-Dependent Resolution: 8-bit, 10-bit, 12-bit |
| Presence Detection Desk Mount          | X Angle: 60°<br>Y Angle: 60°<br>Height: 0.75 m             | N/A                              | N/A   |
| <b>Certifications &amp; Compliance</b> |  |                                  |   |
| Regulatory                             | FCC, ISED, CE (RED)  |                                  |   |
| Product Safety                         | IEC 62368-1  |                                  |   |
| Environmental                          | RoHS   |                                  |   |

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

**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.**