

VIVID Smart Room Sensor PIR

LoRaWAN® connected Home and Office Environment Monitoring

TEKTELIC VIVID integrates practical functionality into a very small form factor. The VIVID is an ideal solution for holistically monitoring the home and office environment. The device is capable of measuring and reporting temperature, humidity, light, movement, motion, shock, detecting open / closed doors and windows. It also supports battery status updates for easy maintenance.

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



Features

- **>>** User Configurable Parameters and Thresholds
- Designed for Optimal Battery Life **>>**
- Multiple PIR Masking Options
- Long Battery Life
- **》** Wall, Ceiling or Table Mount Configurations
- » Simple Deployment
- Sleek and Unobstrusive Design **>>**

42 mm 42 mm



Applications

- Movement Detect (Doors, Windows, Drawers)
- Motion Detection
- On / Off External Contact
- On / Off Internal Magnetic Switch
- **>>** Light Detection (On / Off)
- Temperature Measurement »
- Humidity Measurement **>>**





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Technical and Functional System Specifications

General System Parameters

Operational Temperature	0°C to 60°C (10°C to 40°C optimal)
Storage Temperature	-30°C to 60°C (0°C to 30°C optimal)
Relative Humidity- Operational	5% - 95% Non-Condensing (Operational)
Ingress Protection	IP30
Size	42 x 42 x 26 mm (enclosure)
	42 x 42 x 27 mm (with bracket)
Weight (including batteries)	25g
Battery	CR2477

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	

Wireless Parameters

RF Power	14 dBm
RF Sensitivity	up to -137dBm
LoRa Radio	SX1261
Supported ISM Bands	NA915, EU868, EU433, AU915, AS923
	CN470, CN779, IN865, KR920, RU864
Antenna	Internal
LoRa Device Class	A

X Angle	70°
Y Angle	20°
Z Range	5 m

PIR Detection Range (Ceiling Mount)

PIR Detection Range (Wall Mount)

X Angle	70°
Y Angle	84°
Height	3 m

* Assumes object in center of field of view

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.

Sensor Capabili	tioc
Sensor Capabili	ues

Motion Detection (PIR)
On/Off Magnet switch
Accelerometer
G-Force Measurement
On/Off External Contact
Light Detection
Temperature
Humidity