

COMFORT Base Smart Room Sensor

LoRaWAN® connected Home and Office Environment Monitoring

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

- Smart Home & Office
- Indoor Environment Monitoring
- Room Occupancy
- Facility Management
- Moisture/Leak Detection
- Desk Occupancy
- Point of Entry Security
- HVAC Optimization

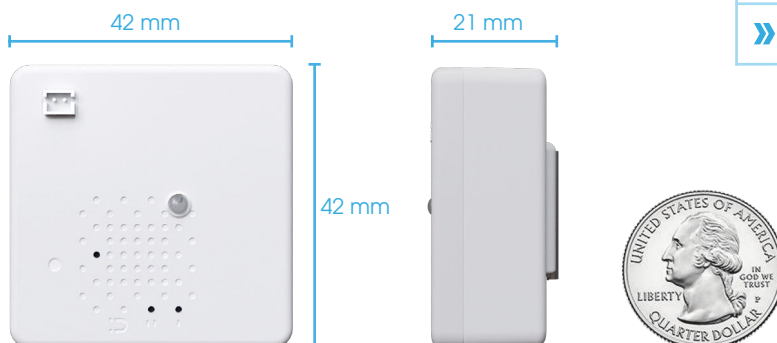


Features

- » User Configurable Parameters and Thresholds
- » Designed for Optimal Battery Life
- » Long Battery Life
- » Wall, Ceiling or Table Mount Configurations
- » Simple Deployment
- » Sleek and Unobstrusive Design

Applications

- » Movement Detect (Doors, Windows, Drawers)
- » G-Force Measurement (Settable Trigger)
- » On / Off External Contact
- » On / Off Internal Magnetic Switch
- » Pulse Reading (Water, Gas, other metering)
- » Light Detection (On / Off)
- » Temperature Measurement
- » Humidity Measurement
- » Moisture / Leak Detection



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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 17 mm (enclosure)
	42 x 42 x 20 mm (with bracket)
Weight (including batteries)	25g
Battery	CR2477
External Connector (Base Variant)	Connector Type: JST A02ZR02ZR28H305B
	≤ 20Hz (Pulse Reading)
	Driven by open drain/relay contact

Optimized Battery Life (Years) - CR2477

Transmission	SF 10 125 kHz	SF 7 125 kHz	SF 8 500 kHz
4 packets / hour	4.8	11.2	13.0
3 packets / hour	5.9	12.5	14.1
2 packets / hour	7.8	14.1	15.5
1 packets / hour	11.0	16.3	17.1
1 packets / day	18.5	19.0	19.1
Calculated under conditions			
Operational Temperature	20°C		
Tx Power	14 dBm		

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

Regulatory Compliance

Safety	IEC 60950-1 (CE)
Regulatory	ETSI EN 300 220
	ETSI EN 301-489-1/-3
	FCC 15.247 FCC 15.209
	RSS-247 RSS-GEN

Specifications subject to change without notice.

Sensor's Capabilities

Pulse Reading
On/Off Magnet switch
Moisture/Leak Detection
Accelerometer
G-Force Measurement
On/Off External Contact
Light Detection
Temperature
Humidity

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