

# **COMFORT Base Smart Room Sensor**

LoRaWAN<sup>®</sup> 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**
- IndoorEnvironment Monitoring Desk Occupancy
- **Room Occupancy**
- **Facility Management**
- Moisture/Leak Detection
- Point of Entry Security
- HVAC Optimization



LoRa Alliance Member

### 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 21 mm 42 mm

## **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 >>







## **COMFORT Base Smart Room Sensor**

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#### **Technical and Functional System Specifications**

#### **General System Parameters**

0°C to 60°C (10°C to 40°C optimal)
-30°C to 60°C (0°C to 30°C optimal)
5% - 95% Non-Condensing (Operational)
IP30
42 x 42 x 20 mm (enclosure)
42 x 42 x 21 mm (with bracket)
28g
CR2477
Connector Type: JST A02ZR02ZR28H305B
$\leq$ 20Hz (Pulse Reading)
Driven by open drain/relay contact

#### **Optimized Battery Life (Years) - CR2477**

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

Variant	Transmission	SF 10 125 kHz	SF 7 125 kHz	SF 8 500 kHz
	4 packets / hour	4.8	11.2	13.0
Base	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

#### **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.

#### **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

#### **Sensor Variants**

Sensor Function	PIR Variant	Base Variant
Motion Detection (PIR)	<ul> <li></li> </ul>	
On/Off Magnet switch	<ul> <li>Image: A start of the start of</li></ul>	$\checkmark$
Moisture/Leak Detection		~
Accelerometer	<ul> <li>Image: A second s</li></ul>	~
G-Force Measurement	<ul> <li>Image: A set of the set of the</li></ul>	~
On/Off External Contact		$\checkmark$
Light Detection	<ul> <li>Image: A set of the set of the</li></ul>	~
Temperature	<ul> <li>Image: A second s</li></ul>	~
Humidity	<ul> <li>Image: A second s</li></ul>	~

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