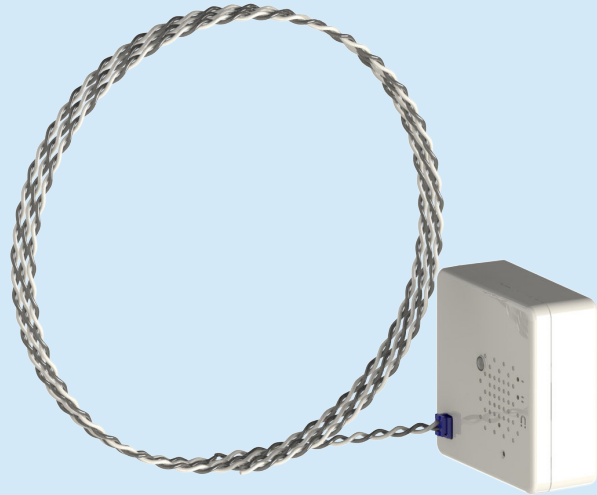


# COMFORT - Leak Detection Sensor

## LoRaWAN® connected Leak Detection

The COMFORT – Leak Detection integrates a lot of useful functionality into a very small form factor. The COMFORT uses an external water probe to detect the presence of water to prevent leaks. It also supports battery status updates for easy maintenance. The sensor is optimized for long battery life and excellent RF performance, making it a reliable, long lasting leak detection solution to help prevent potential property damaging leaks.

- Moisture/Leak Detection
- Smart Home & Office
- Indoor Environment Monitoring
- Facility Management
- HVAC Optimization

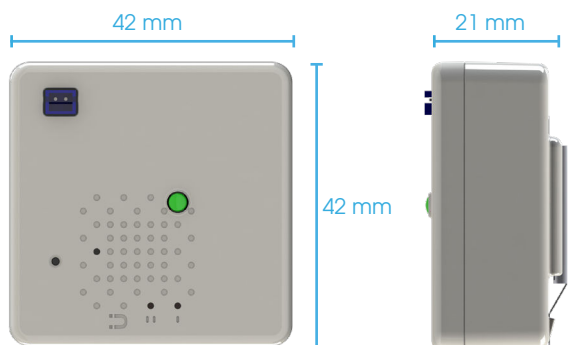


## Features

- » 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

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



# COMFORT - Leak Detection Sensor

## LoRaWAN® connected Leak Detection

### 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 20 mm (enclosure)
	42 x 42 x 21 mm (with bracket)
Weight (including batteries)	28g
Battery	CR2477
External Connector (COMFORT Only)	Connector Type: JST A02ZR02ZR28H305B
	≤ 20Hz (Pulse Reading)
	Driven by open drain/relay contact

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

Operational Temperature	20°C
Tx Power	14 dBm

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

#### Wireless Parameters

RF Power	14 dBm
RF Sensitivity	up to -137dBm
LoRa Radio	SX1261
Supported ISM Bands	NA915, EU868, EU433, AU915, AS923
	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 Capabilities

Moisture/Leak Detection
On/Off Magnet switch
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](http://www.tektelic.com)