TEKTELIC communications

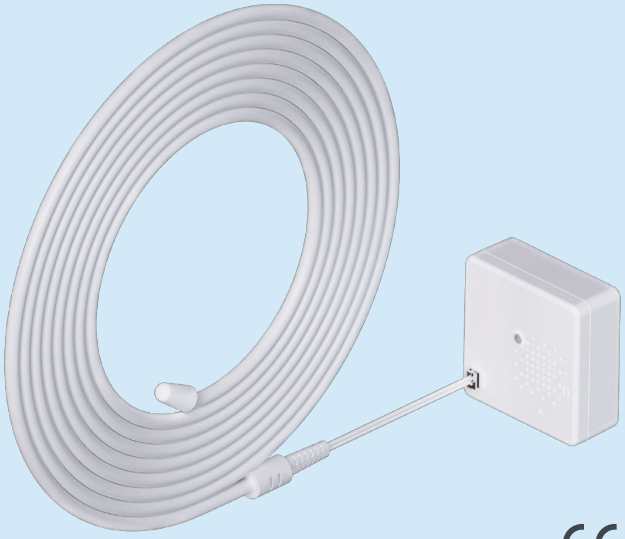
LoRa Alliance Member

COMFORT - Leak Detection Sensor

LoRaWAN® connected Leak Detection

COMFORT provides a reliable leak detection solution to protect your property. Its compact design and versatile deployment options allows for quick and discreet placement in even the most confined spaces. COMFORT provides reliable, precise leak detection with an extended battery life of over 10 years.

- **Proactive 24/7 Monitoring**
- **Early leak detection**
- **Enhanced Property Protection**
- **Simple Installation & Deployment**
- **Long Battery Life, No Maintenance**



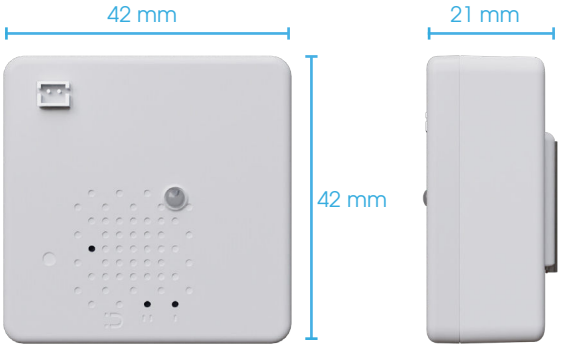
CE

Key Hardware Features

- 3m Leak Rope or 1.5m Leak Probe
- 10+ years battery life
- Simple Deployment
- Strong RF Performance
- User Configurable Parameters and Thresholds
- Easy Onboarding with QR-code
- Open API for simple integration to any application

Multiple Functions

- Moisture/Leak Detection
- Instant Leak Notification to Network
- Water Meter Pulse Counting
- Temperature Monitoring
- Humidity Monitoring
- Battery Status Updates
- Internal Magnetic Reed Switch



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COMFORT - Leak Detection Sensor

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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 20 mm (enclosure)	
	42 x 42 x 21 mm (with bracket)	
Weight including batteries	28g	
Battery	CR2477	
External Connector	Two-pin digital/analog connector	
	3 m Fabric Rope (4 mm)	1.5 m Single Point Probe

Wireless Parameters

RF Power	14 dBm
RF Sensitivity	up to -137dBm
LoRa Radio	SX1261
Supported ISM Bands	US915, EU868, EU433, AU915, AS923
	IN865, KR920, RU864
Antenna	Internal
LoRa Device Class	A

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 years	8.5 years	9.5 years
3 packets / hour	5 years	9 years	10 years
2 packets / hour	6 years	10 years	10.5 years
1 packets / hour	8 years	11 years	11.5 years
1 packet / day	11.5 years	12 years	12 years

Regulatory Compliance

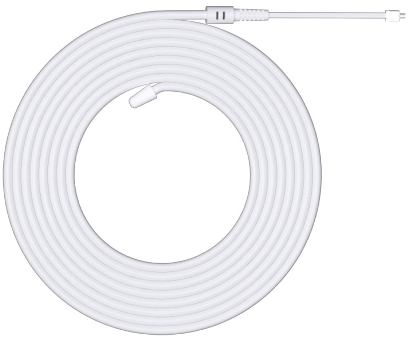
Safety	IEC 62368-1 (CE)
Regulatory	ETSI EN 300 220
	ETSI EN 301-489-1/-3
	FCC 15.247, FCC 15.209
	RSS-247, RSS-GEN

Specifications subject to change without notice*

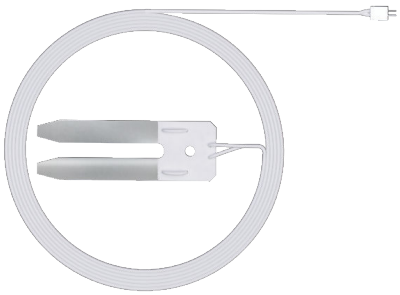
All Sensor Capabilities

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

External Connector - Rope



External Connector - Probe



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