COMFORT v2 Leak Detection Sensor
LoRaWAN® Device for Facility Management & Risk Management

Enhanced TEKTELIC COMFORT v2 device, now with a ruggedized IP65 design for superior water protection and dual capability for leak detection and automatic valve shutoff. This compact device continues to provide comprehensive monitoring of temperature, humidity, light, and leak detection, while supporting multiple probes for added flexibility. TEKTELIC COMFORT combines a user-friendly twist-lock mounting mechanism with easy battery access and improved battery-life reporting, making it the ultimate solution for holistic monitoring in any environment.

- Industrial Facilities
- Commercial Properties
- Property Management Firms
- Hospitality Industry
- Insurance Sector
- Residential Users

Technical and Functional System Specifications

General System Parameters

Operational Temperature	0°C–60°C
Operational Humidity	5% - 95%, non-condensing
Ingress Protection	IP65
Size	43 x 43 x 22 mm
Weight	38.6 g (with battery)
Battery	CR2477
Battery Life*	5 Years
Connectors	2 USB-c connectors

*5 Years of battery life with Baseline use case, Temperature 23˚C, Tx power 14 dBm, LoRa SF 10, Tx periodicity 68 times/per.

LoRa Parameters

RF Power	14 dBm
RF Sensitivity	Up to -137dBm
ISM Band	All Global ISM Bands
Antenna	Internal
LoRa Device Class	Class A & Class C*

*Please note that class C will significantly lower battery life.

Key Features and Applications

- » Comprehensive Leak Detection
- » Valve Shutoff Control
- » Dual Waterproof USB-C Connectors
- » Leak Detection via Enclosure Screws
- » Supports Digital and Analog Input Signals
- » Pulse Reading (Water, Gas, other metering)
- » Light Detection (On / Off)
- » Temperature Measurement
- » Humidity Measurement
- » Movement Detect (Doors, Windows, Drawers)
- » User Friendly Twist-Off Mounting & Battery Access
- » Remaining Battery life estimated as a percentage

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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.

Leak Detection

Leak Probe, Leak Rope and Built-in Leak Detection
Automatic valve shutoff
Valve Shutoff: Max Valve 24VAC or VDC, Max current of 300mA
External Connector: 2 x USB-c waterproof connectors, up to 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		