

TEKTELIC COMFORT v2

LoRaWAN® Device for Facility Management & Risk Management

The **enhanced TEKTELIC COMFORT v2** features a rugged IP65-rated design for superior water protection and dual functionality for leak detection and automatic valve shutoff. This compact device monitors temperature, humidity, light, and leaks, while also detecting device and nearby object movement through accelerometer and magnetic sensing. With two versatile connectors supporting digital input, analog input, or digital output, it enables broad accessory compatibility and deployment flexibility. A user-friendly twist-lock mount, easy battery access, and improved battery-life reporting make COMFORT v2 a robust and adaptable solution for comprehensive environmental monitoring.



Features

- » **10+ Year battery life*** enabled by an optimized low-power design for extended maintenance-free operation
- » **Compatible with standard LoRaWAN® gateways and network servers** for broad interoperability
- » **User-configurable parameters and thresholds** allow the device to be tailored to a wide range of monitoring applications
- » **Dual USB-C connectors** deliver multi-function sensing and control, including leak detection, remote temperature monitoring, digital inputs, and valve shut-off
- » Integrated **enclosure-based leak detection** via **screw contacts**
- » Onboard accelerometer supporting **orientation, acceleration, vibration, and impact** event detection
- » TEKTELIC **Kona Atlas™ support** for payload encoding and decoding
- » TEKTELIC **Locus™ integration** for centralized device, data, and fleet management
- » **Quick and easy device onboarding & data viewing** using TEKTELIC **LeapX™** provisioning tools
- » **Rapid deployment** for scalable commercial and enterprise installations
- » **Remaining battery life reported** in percentage

*Actual battery life varies based on configuration, data rate, and operating temperature.

Sensing Functions

- » Ambient Temperature
- » Ambient Relative Humidity
- » Ambient Light
- » Ambient MCU Temperature
- » Accelerometer
- » Magnetic Hall Effect Sensor
- » Movement Detection via Hall Effect (Doors, Windows, Drawers)
- » 2x USB-C External Connectors (Digital Input, Analog Input, Digital Output)
- » Remote Temperature Monitoring
- » Pulse Counting (Water, Gas, Other Metering)
- » Moisture & Leak Detection
- » Valve Shutoff Control
- » Battery Level Indicator



TEKTELIC COMFORT v2

LoRaWAN® Device for Facility Management & Risk Management

General System Parameters			
Operational Temperature	0°C to 60°C		
Storage Temperature	-30°C to 60°C		
Operational Relative Humidity	5% - 95% Non-Condensing		
Ingress Protection	IP65		
Size	43 x 43 x 22 mm		
Weight (including batteries)	38.6 g		
Battery	1 x CR2477		
Connectors	2 USB-c Connectors		
Battery Life			
Reporting Period = 60 min @SF7	11 Years		
Reporting Period = 60 min @SF10	8 Years		
Wireless Parameters (LoRa)			
RF Power (Max)	13 dBm		
RF Sensitivity	-137 dBm (SF12, 125 kHz)		
Channel Plans	EU868, US915, AU915, AS923-1,-2,-3,-4, IN865, KR920		
Antenna	Internal		
LoRa Device Class	Class A & Class C*		
Specification Version	1.0.4		
Sensor Specifications			
	Range	Accuracy	Resolution
Ambient Temperature	0-60°C	+/- 0.3°C	0.1°C
Ambient Relative Humidity	0-100%	+/- 4%	0.5%
	20-80%	+/- 2%	
Ambient Light	5-1000 lux	N/A	N/A
Accelerometer	Configurable Measurement Range: ±2 g, ±4 g, ±8 g, ±16 g	Zero-g Offset Accuracy: ±40 g	Configurable Mode-Dependent Resolution: 8-bit, 10-bit, 12-bit
Certifications & Compliance			
Regulatory	FCC, ISED, CE (RED)		
Product Safety	IEC 62368-1		
Environmental	RoHS		

*Please note that class C will significantly lower battery life