

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.



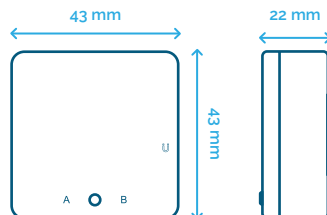
11 YEARS

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		

Features

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



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

Technical and Functional System Specifications			
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 × 43 × 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°C to 5°C	+/- 0.3°C	0.1°C
	5°C to 60°C	+/- 0.2°C	
Ambient Relative Humidity	0% - 20%	+/- 4%	0.5%
	20% - 80%	+/- 2%	
	80% - 100%	+/- 4%	
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

TEKTELIC Communications is a premier supplier of complete LoRaWAN® IoT solutions. Our end-to-end systems combine network infrastructure, devices, and applications to enable easy, fast, and cost-effective deployment for the most demanding IoT challenges.