

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.



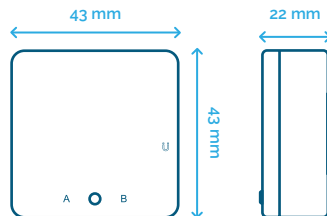
11 YEARS

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 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°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, ISCED, 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.