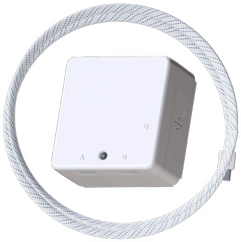
TEKTELIC COMFORT v2

LoRaWAN® Device for Leak Detection



The **Enhanced TEKTELIC COMFORT v2** is a compact and reliable **leak detection sensor** designed to help protect properties from water damage. Its discreet form factor and flexible mounting options allow for quick deployment, even in tight or hard-to-reach spaces. Featuring a rugged **IP65-rated enclosure**, COMFORT v2 delivers precise and dependable leak detection while supporting optional automatic valve shutoff for rapid response. With an **extended battery life of over 10 years**, this sensor minimizes maintenance requirements and provides long-term, worry-free operation for facility and property management applications.

IP 65

11 YEARS

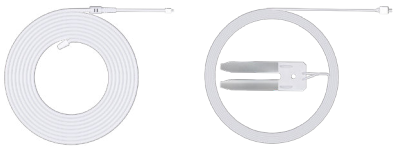
Sensing Functions

- MOISTURE & LEAK DETECTION
- 2X USB-C EXTERNAL CONNECTORS (DIGITAL INPUT, ANALOG INPUT, DIGITAL OUTPUT)
- VALVE SHUTOFF CONTROL
- PULSE COUNTING (WATER, GAS, OTHER METERING)
- ACCELEROMETER
- MAGNETIC HALL EFFECT SENSOR
- MOVEMENT DETECTION VIA HALL EFFECT (DOORS, WINDOWS, DRAWERS)
- AMBIENT TEMPERATURE
- REMOTE TEMPERATURE MONITORING
- AMBIENT RELATIVE HUMIDITY
- AMBIENT LIGHT
- AMBIENT MCU TEMPERATURE
- BATTERY LEVEL INDICATOR

Features

- **Proactive 24/7 Monitoring** for continuous leak detection and property protection
- **Early Leak Detection** enables rapid response to minimize damage and downtime
- **Enhanced Property Protection** through precise sensing and optional valve shut-off integration
- Integrated **enclosure-based leak detection** via **built-in screw contacts**
- **10+ Year battery life*** enabled by an optimized low-power design for long-term maintenance-free operation
- **Dual USB-C connectors** supporting leak detection, digital inputs, and automatic valve shut-off
- Flexible leak detection options, such as a **3 meter Leak Rope** or a **1.5 meter Leak Probe**
- **User-configurable parameters and thresholds** allow the device to be tailored to a wide range of monitoring applications
- **Compatible with standard LoRaWAN® gateways and network servers** for broad interoperability
- 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.



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		
Connector Options	3 m Rope (fabric or plastic) 1.5 m Probe		
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 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

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.