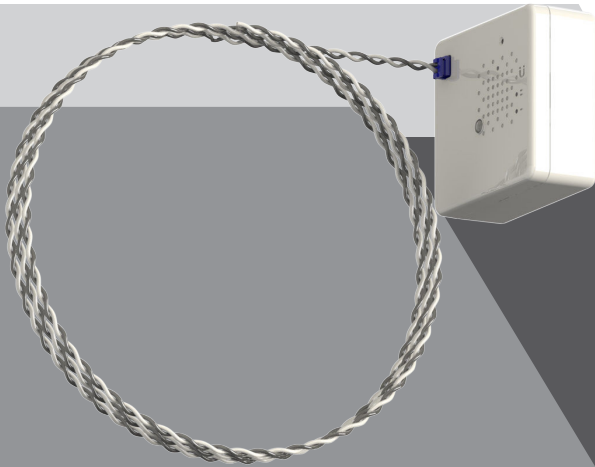# packetSENSE
Leak Detection Device

The packetLEAK device is a simple tool designed to keep an eye on water leaks so as to prevent any damage or flooding. Upon leak detection, the device will trigger an alarm or notification, which gets communicated through the LoRaWAN® network.

The data can be displayed on the dashboard or email. With this device, it is possible to efficiently monitor water leaks, avoid the destruction of equipment and assets and, in turn, prevent floods in the infrastructure.

Features

- User Configurable Parameters and Thresholds
- Designed for Optimal Battery Life
- Long Battery Life
- Wall, Ceiling or Table Mount Configurations
- Simple Deployment
- Sleek and Unobstrusive Design

Applications

- Moisture / Leak Detection
- Pulse Reading (Water, Gas, other metering)
- G-Force Measurement (Settable Trigger)
- On / Off External Contact
- On / Off Internal Magnetic Switch
- Light Detection (On / Off)
- Temperature Measurement
- Humidity Measurement
- Movement Detect (Doors, Windows, Drawers)

Technical Specification

Data Communication Supported

Technology	LoRaWAN®
Frequency	EU868/AS923-3
Tx Power	14 dBm

Electrical

Power Source	Battery
Battery Type	CR2477
External Connector	Connector Type: JST A02ZR02ZR28H305B ≤ 20Hz (Pulse Reading) Driven by open drain/relay contact

General Specifications

Operating Temperature	0°C to 60°C (10°C to 40°C optimal)
Storage Temperature	-30°C to +60°C (0°C to 30°C optimal)
Operating Humidity	5% - 95% Non-Condensing (Operational)
Ingress Protection	IP30
Dimension	42 x 42 x 20 mm (enclosure) 42 x 42 x 21 mm (with bracket)
Weight	28g

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