BATTERY POWERED WIRELESS IoT SOLUTIONS

MONITOR PREMISES AND ASSETS 24/7

LRS20310 LoRaWAN 2-Pin Water Leakage Sensor

Product Features

- Provides a simple and cost-effective solution for monitoring water leakage.
- Detects water leakage by analog measurement, alert level configurable via downlink command.
- Instant alerts regardless of the data upload interval.
- More than 10 years of battery life.
- Easy installation without any complex wiring and pricey setup cost.
- Application: Data Center Subfloor, HVAC Equipment, Water Pipes, Smart Toilets.

Performance Characteristics

Power	1 x 3.6V C Size Lithium Battery
Standby Current	< 25 uA @3.6V
Measurement Level	0 - 100
Data Upload Interval	Configurable (Default: 60 mins)
On-device Alert Detection	Yes, measurement level exceeds threshold
Battery Life	Up to more than 10 years at 60 mins data upload interval Up to 8 years at 10 mins data upload interval

Wireless Characteristics

Wireless Connectivity	LoRaWAN® 1.0.3 EU863-870, US902-928, AU915-928, AS923
Transmit Power	EU868, AS923: +16dBm US915, AU915: +20dBm
Sensitivity	Max. -137dBm
Data Transfer Rate	0.3kbps - 50 kbps
LoRaWAN Features	ABP/OTAA, ADR, Class A End-device
Antenna Type	Built-in Antenna
Security	AES-CTR (LoRaWAN End-to-End Encryption) AES-CMAC (Data Integrity Protection)

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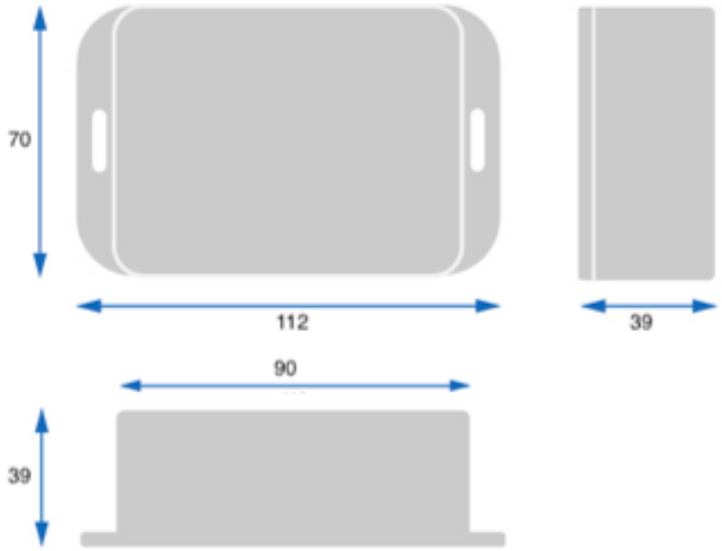
Physical Characteristics

Dimensions	L 112mm x W 70 mm x H 39 mm
Weight	115g (excluding water probe)
Operating Temperature	-20 to 70°C
Storage Temperature	-20 to 80°C
Storage Humidity	< 95% RH
Ingress Protection	IP67
Warranty Period	1 Year

Mechanical Dimensions



Ordering Information

SENSO8 LoRaWAN 2-Pin Water Leakage Sensor	LRS20310-0000-000x

x = frequency band: 0 - AS923, 1 - EU868, 2 - AU915, 3 - US915

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