TRUETY

True Utility Data

Leak Sensor

The Truety Leak Sensor is designed to detect the presence of water or other liquids. It uses LoRaWAN® technology to transmit an alarm when water is detected. Thanks to its low power consumption, the Truety Leak Sensor can operate for up to 10 years without battery replacement. Users can manage all sensor data locally through the NFC interface, or remotely using the Truety LoRaWAN® gateway and receive alarms via the Truety Portal.

The Truety Leak Sensor comes equipped with temperature and humidity sensors that are useful in gaining building insight and is useful for monitoring applications such as pipe leaks, basement flooding, pump failures and more.

Specifications

Leak Detection	Leak Sensor
Liquid Type	Conducting Liquid
Trigger Condition	When Liquid Level Reaches .2"
Detection Cable	10Ft (Customizable)

Wireless Transmission	Leak Sensor
Technology	LoRaWAN®
Frequency	US915
Tx Power	20 dBm
Sensitivity	-137dBm @300bps
Mode	OTAA/ABP Class A

Physical Characteristics	Leak Sensor
Power Supply	2 × 4000 mAh ER18505 Li-SOCL$_2$ Batteries
Battery Life	10 years (10 min interval + 24 triggers per day)
Operating Temperature	-22°F to +158°F
Relative Humidity	0% to 100% (non-condensing)
Ingress Protection	IP67
Dimension	4.16 × 3.36 × 1.06 in
Installation	Wall Mounting

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Sensors

Temperature	Leak Sensor
Range	-22°F to +158°F
Accuracy	32°F to +158°F (+/- 0.3°K), -22°F to 32°F (+/- 0.6°K)
Resolution	0.1°K

Humidity	Leak Sensor
Operating Principle	Digital CMOSens® technology (MEMS)
Range	0% - 100% RH
Accuracy	± 2% RH
Resolution	0.5% RH

Operation	Leak Sensor
Power On & Off	NFC, Power Button (Internal)
Configuration	NFC Configuration via Mobile App
Advanced Feature	Data Storage, Data Retransmission

Approvals	Leak Sensor
Regulatory	CE, FCC
Environmental	RoHS

Key Hardware Features

» Detecting the presence of liquids using a long cable that operates on the conductivity principle

» Equipped with sensors to monitor temperature and humidity in its surroundings

» LoRaWAN technology allows for transmission over ultra-wide distances up to a line of sight of 10km

» Enclosure that is both waterproof and UV-resistant with an IP67 rating, making it ideal for use in harsh environments

» This device has built-in 8000 mAh replaceable batteries that can last for over 10 years without needing to be replaced

» Stores up to 3,000 historical records locally and has the ability to support retransmission, ensuring that your data is never lost

» This device comes with NFC capability, allowing for easy configuration

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