

# FlowCheck

**Wireless Water Leak detector.**



**Battery operated wireless sensor to detect water leaks.**

## Product Overview

**FlowCheck** is a wireless battery-operated water leak detector designed to detect water leakages and prevent potential damage to properties and assets.

This intelligent device uses a probe and rope sensor design for detecting water leaks. Upon detecting water immersion, the sensor promptly transmits alarm notifications to the designated application via wireless communication protocols such as LoRaWAN®, NRF and Wi-Fi. This enables users to remotely monitor status information and send instant notifications as alarms to remote control and monitoring systems.

**FlowCheck** water leak detector consumes low power, ensuring long lasting and cost effectiveness on battery replacements.

This sensor can be installed anywhere and takes up minimal floor space.

## Product Features



Easy Installation and  
configuration



Wireless data transmission  
Option through  
LoRaWAN®, and/or WIFI  
wireless protocol



Secure operation  
with top-down  
encryption



Real-time response  
enabling fast  
detection



Lower Power  
Consumption and  
Battery Operated



Integration with  
Building Management  
System through  
protocol converters



Multiple application  
environments



Electrode Detection



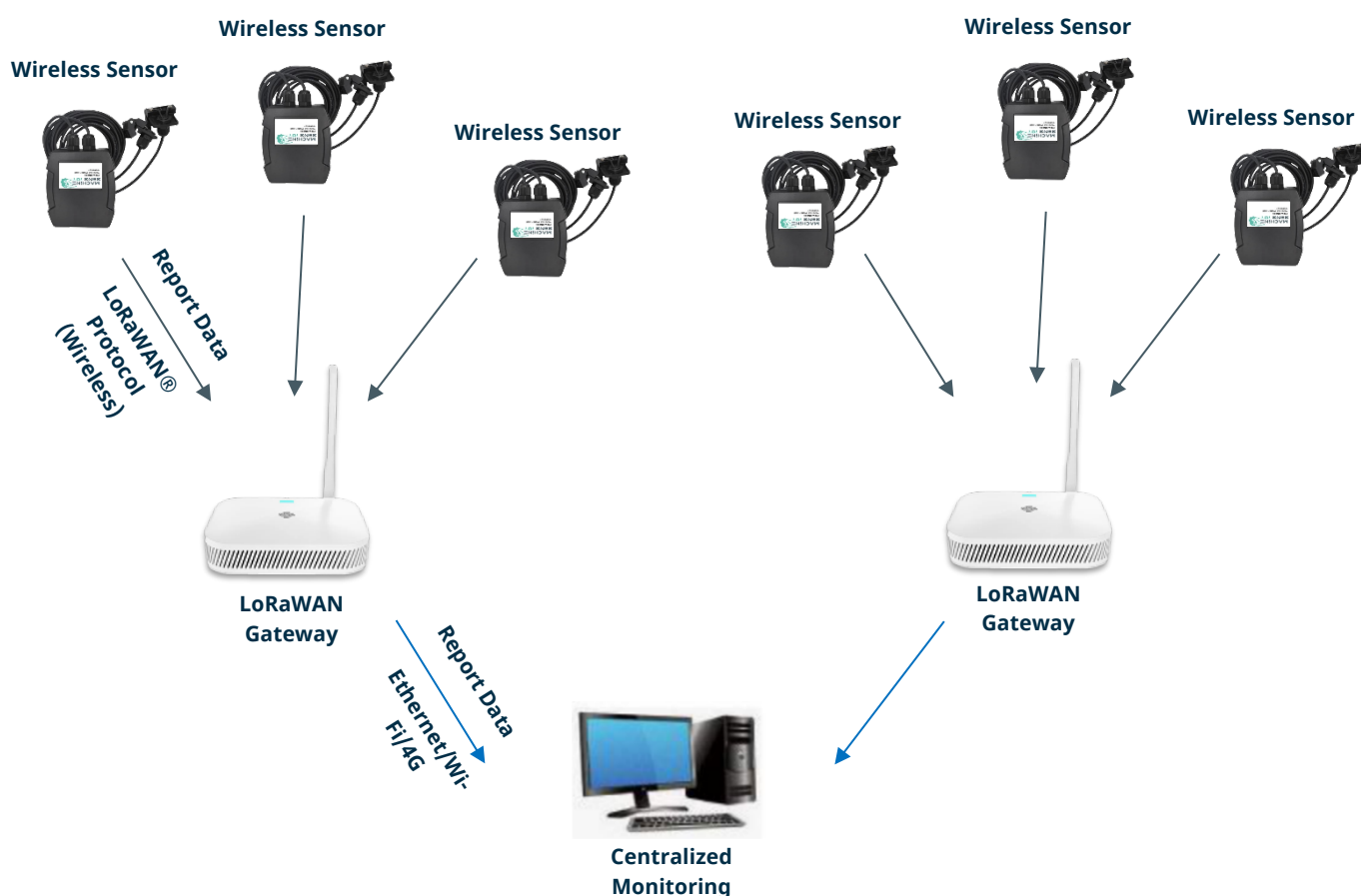
Easy Performance  
management through  
MachineSens IoT Cloud  
Platform



## Communication Technology

The **FlowCheck** wireless battery-operated water leak detector employs cutting-edge communication technology, LoRaWAN® which provides low power consumption as well as long range signal propagation to enable real-time control and monitoring.

Our smart gateway receives near real-time data from all the wireless sensors within range, converts the raw data into an easy-to-use JSON format, and then publishes it using MQTT protocol. Data can be sent to any local or cloud MQTT broker via Ethernet, LTE (4G), or WIFI.



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## Specifications

General	
Operating temperature	-20 °C to +60 °C
Storage temperature	-40 °C to +70 °C
Power	Battery Powered
Battery Type	ER26500 3.6V Lithium Battery, 8000 mah
Detector	Theory: Electrode
	2m length cable from control box to detector
	Channel: 2 channel default
Dimension	85*80*30mm, Control box
Environment	Indoor
Housing Material	Polycarbonate
Wireless Communication	
Technology	LoRaWAN®
Frequency	EU868 (868 Mhz) license free
Transmit Range	500m inside Building, 2KM Open Air
Security	128 AES Encryption
Antenna	Internal
Tx Power	19dBm ± 1dBm
Rx Sensitivity	-136dBm (LoRa, Spreading factor=12, Bit Rate=293bps)
Data Transfer Rate	0.3Kbps– 50Kbps
Data Format	JSON
Device Class	Class A
Activation Method	OTTA (Over-The-Air-Activation)
Certifications	
Regulatory	CE
Environmental	RoHS