



## Skysens's Technology Enables Smart Water Grid Monitoring

### DESCRIPTION

Skysens provides a wireless IoT network in the simplest and cost-effective way to monitor water grids remotely in the whole city or a certain area.

With the Skysens Internet of Things (IoT) technology, metering the water grids aiming to monitor consumption, distribution, temperature, pressure, irrigation allows you to have full control.

Skysens Smart Water Grid Monitoring System analyses the current water status and generates alerts via its application which also supported by its mobile version and allows you to take the precautions in case of any exceeding consumptions, losses, pressure or temperature changes.

Skysens creates a wireless network infrastructure which can be scaled easily upon other needs of the area such as energy consumption monitoring.

### BENEFITS

Offering a reliable water supply to the end customers is not as easy as it seems when last-minute outages and customer minutes lost are considered for the water distributor and provider companies. Lack of a monitoring network causes unwanted scenarios of service quality. Also, water losses on the pipes are one the major issues companies are dealing with.

Skysens aims to optimize water distribution and consumption to maximize the efficiency of the usage. It monitors, analyses and helps to improve the quality of water supplied.

Skysens offers city managers a wireless network to monitor remotely and simultaneously all water grids in multiple locations. Irrigation control, water pressure/temperature monitoring, valve control, pump monitoring can be made through Skysens application.

# SMART WATER GRID MONITORING

## SUCCESS STORY

Istanbul Airport, one of the biggest airports in the world is currently being built on 76,5 million square meters to the north of Istanbul, in 35 km distance to the city center. IGA was founded on October 7, 2013, with the purpose of constructing and operating for 25 years Istanbul Airport. In such a huge area, there was no infrastructure to monitor water meters.

As the network of things company, Skysens had successfully implemented a complete end-to-end IoT solution to manage and monitor the distributed water in the airport area. With plug and play wireless Skysens devices' installation on various water meters, airport managers could get the instant alarms in case of any risky water pressures, flow changes or over-consumption.

Skysens' smart and expandable network provides a wireless network for multiple application in real-time, starting from monitoring critical infrastructure monitoring and remote metering and other third-party IoT applications. For example, with no additional infrastructure costs and the few more Skysens devices, it is possible to monitor and manage energy monitoring, gas consumption or tracking mobile or stable assets or even people at the area.

Skysens IoT devices simply connect to any metering devices and other infrastructure items provides the managerial tools all necessary functions, including the ability to view usage trends and to monitor each item remotely.

Skysens technology is perfect for dense areas due to its highly dynamic management algorithms for Radio Frequency Network.

Skysens system provides real-time end-to-end connectivity management which includes the firmware-over-air update and dynamic speed and frequency management depending on the application types.

It's a selective transmission algorithm and micro-edge processing capability enables Skysens devices to conduct an operation with the minimal transmission which means additional security and optimization both on power consumption and network spectrum.

With its optional 256-bit security layer Skysens provides financial-grade security. Also with the compatibility with global LoRaWAN protocol, Skysens provides global reliability, robustness, and access to the global ecosystem of IoT companies and system integrators.

# SMART WATER GRID MONITORING

## HOW IT WORKS

Skysens's technology enables real-time connectivity, monitoring, cost savings, and analytics.

1. For optimization on the area, based devices are installed on all the water grids in order to enable tracking and monitoring.
2. Skysens gateways are installed about one per square mile, or farther if it is a large space. Skysens gateways gather information from these devices and send it to cloud or server on premises.
3. Skysens software is configured to collect all devices' data and track it permanently. This information is stored long-term, handled by a cloud-based or server on-premises application software, and accessed via the web, mobile devices, desktops, and tablets.
4. Gathered information including water consumption, losses or faults on each water grids is now visible in real-time and can be monitored in seconds with a smartphone.
5. Over time, data can be analyzed to detect any continuous problems on these variables such as losses or no-flow detection, generate alarms and reduce risks.

## SKYSENS TECHNOLOGY

Skysens joined the **LoRa Alliance** in 2015 and leverages Low Power Wide Area Technology to help many municipalities to help to start transformation to "smart cities".

## COST EFFECTIVE

Skysens provides a reliable communication technology designed to eliminate the cost of sim card-based systems and meet smart cities' needs with the affordable and easiest way.

Also, through its low-power consuming technology, Skysens devices' batteries can last up to 10 years without needing any refill.

## PLUG & PLAY

Skysens's wireless devices allow you to connect and control your city/area and built an IoT network in minutes!

## WIRELESS & EXPANDABLE

Device count and type on the network can be extended without any infrastructural costs in case of any needs.

## ADVANCED COMPATIBILITY

Skysens products ensure best global compatibility with global standards but yet with its additional algorithms and security layers provide the best technology. It provides high-integration capability with any third-party applications.

## SECURE

Multiple layers of security ensure devices are tracked safely and central management of all devices ensures every piece of hardware on a network is up to date.

Contact us on [hello@skysens.io](mailto:hello@skysens.io) for more information

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[www.skysens.io](http://www.skysens.io)