



Skysens's Technology Enables Industry 4.0 Transformation with the Minimum Cost and Time

DESCRIPTION

Skysens's industry-oriented technology provides industries a wireless IoT network in the simplest and cost-effective way. Its state-of-art wireless IoT technology enables easy monitoring and tracking of the machinery in the factories and production areas to help you to act immediately to produce with the maximum capacity and productivity without any CapEx costs.

Skysens technology consisting of its own plug-and-play devices and multi-layered software is exactly designed to meet the need of industries. Being suitable for every kind of industries, Skysens enables 360° monitoring of every kind of equipment.

With the monthly subscription system, faulty machines, production errors, over-working machines, energy losses, temperature changes on your production areas are detected in seconds and losses on your sources and money are minimized without any infrastructure costs.

CHALLENGES

For the many years, factory owners or operators are facing many problems such as production errors and maintenance issues. With the evolving technology, IoT systems and networks are used as a solution. While industry 4.0 is a hot topic and many companies are already offering a transformation promises, many of them cannot complete this transformation due to lack of integration capabilities while the other of them offering high-cost solution due to infrastructure costs.

Skysens's IoT solution specially designed for industry helps you to eliminate these possible risks and manage your facility more effectively, without any unnecessary costs, wastes, and damages.

Also with integrated IT infrastructure approach, a user-friendly application provides you get instant alerts and take precautions immediately.

SMART FACTORY TRANSFORMATION

INDUSTRY 4.0

SUCCESS STORY

One of Europe's biggest ceramic manufacturing companies had a huge waste problem in their ceramic drying line. The company had a strong manufacturing capability, distribution network, and supply chain for its products to over 100 countries with more than 500 stores. However, they do not have any infrastructure or network to track, monitor or manage their drying line.

As the network of things company, Skysens had successfully implemented complete end-to-end IoT solution to manage and monitor this company's both production and drying line's temperature and humidity information. With low-power and wireless Skysens devices installation on the facility, facility managers and operators could get the instant alarms in case of any temperature changes in the drying area that can risk the products' quality.

Skysens' smart and expandable network provides a wireless network for multiple application in real-time, starting from monitoring critical infrastructure 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 water, electric or gas consumption at the factories.

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 FACTORY TRANSFORMATION

INDUSTRY 4.0

HOW IT WORKS

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

1. For optimization on the production areas, based devices are installed on the required machines then tracked and monitored via these devices.
2. Skysens gateways are installed about one per square mile, or farther if it is a large space. Skysens gateways gather information from the 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. Data such as temperature, motion, operation condition of the machines 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 the machines to reduce operation or maintenance costs.

SKYSENS TECHNOLOGY

Skysens joined the **LoRa Alliance** in 2015 and leverages Low Power Wide Area Technology to help many companies in different industries such as agriculture, food, chemical, mining, electronics around the world.

COST EFFECTIVE

Skysens provides industry-special reliable communication technology designed to eliminate the cost of sim card-based systems and meet industrial 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 industry 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 for more information

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