

SKF launches LoRaWAN automatic lubrication solution press release

LoRaWAN blessing, SKF digital single point lubricator TLDD leads the new revolution of industrial lubrication.

With the rapid development of global Internet of Things technology, many pain points in various industries have been cleverly solved and greatly improved production efficiency. Recently, SKF launched an innovative product - the digital single-point lubricator TLDD. This product uses LoRaWAN technology, supports users to conduct remote status monitoring and operation, ensuring that the equipment receives correct and efficient lubrication. This will greatly change the traditional lubrication business model and provide possibilities for creating an interconnected intelligent lubrication ecosystem.

In traditional industrial operations, mechanical lubrication usually relies on manual operation and recording, leading to high equipment failure risks and lubricant waste. Digital automatic lubrication can significantly improve the overall equipment efficiency (OEE) of the factory, but due to the complexity of lubrication schemes and the bottleneck of high-energy-consuming wireless technology, there has always been a lack of proper handling methods. In response to this pain point, SKF has launched a digital single-point lubricator TLDD based on LoRaWAN technology. This solution integrates lightweight and low-energy wireless technology, with self-power supply and long-distance communication capabilities,

ensuring wide signal coverage range while meeting the requirements of low power consumption and wide-area communication. In addition, the entire system also supports uploading collected data to the cloud platform, facilitating users for in-depth analysis and utilization.



SKF digital single point lubricator TLDD uses Lierda's LoRaWAN module, which has many advantages such as wide transmission power range, low receiving sensitivity, and strong anti-interference ability. Based on the strong performance of Semtech LoRaWAN chip, excellent signal penetration and anti-interference ability, this system adopts the global standard LoRaWAN technology protocol specification, helping users to build a stable, data private, low power consumption, fast response communication network, ensuring that various industrial equipment can maintain stable data transmission even in complex industrial environments.

At the same time, this system can quickly communicate with Internet terminals.

Users can not only control devices remotely through mobile apps and the web,

but also view various information such as device capacity, voltage, and operating status in real time. This allows users to understand the device status in a timely manner, make quick decisions, improve production efficiency, and effectively extend the service life of the equipment.



Currently, the digital single-point lubricator TLDD has realized the remote data transmission and automated management of lubrication equipment, greatly improving operational efficiency and safety. This solution can also be applied to key equipment such as two machines and one pump in traditional industries such as metallurgy, mining, cement, oil and gas, and food and beverage.

Lierda Group President Chen Kai KC stated: "Lierda has always been committed to becoming a world-class LoRaWAN solution provider, helping industry customers solve connectivity issues through wireless communication technology. The LoRaWAN communication solution we provided to SKF this

time is based on our years of accumulation in LoRa RF and LoRaWAN technology. We are very honored to participate in this great project and contribute our capabilities to it."

Semtech Sales VP Mr. Mike Wong also emphasized the widespread adoption of LoRaWAN technology in Industrial IoT applications globally: "LoRaWAN technology is changing the landscape of IoT applications by enabling low power and long range wireless connectivity to intelligent sensing and control. We are pleased to see a combination of Lierda's LoRaWAN module solution and SKF's automatic lubrication platform enables a world leading low power, reliable and intelligent lubrication system management process."

As a senior member of the LoRa Alliance, Lierda, with its profound technical accumulation, has maintained a leading global shipment volume of LoRaWAN modules for many years. It has now formed a complete product line, launching including the QB20 series SiP modules, K series gateway modules, micro full-duplex, LoRaWAN development boards, LoRaWAN outdoor gateways, device management platforms, road testing tools, and the Firefly series self-organizing network products and solutions. Over the years, Lierda's LoRaWAN solutions have not only been leading in technology but have also demonstrated outstanding performance in practical applications, gaining wide recognition in the industry. SKF, as a global leading provider of innovative solutions, has always been

committed to advancing industrial intelligence with advanced technology. SKF has established a friendly cooperation with Lierda to explore new solutions for optimizing industrial equipment maintenance and management. The newly launched SKF digital single point lubricator TLDD fully demonstrates the powerful potential of LoRaWAN technology, marking a new milestone in the cooperation between the two parties. With the growing global demand for industrial smart manufacturing, the cooperation between the two parties will undoubtedly bring more innovation and value to this field, helping enterprises achieve more efficient and intelligent production management.