

Press Release

SmartSensor Labs announces self-powered, LoRaWAN wireless current sensors for electric monitoring, a significant advancement in providing the next generation of device level energy analytics.

London, 3rd October 2016

SmartSensor Labs, wireless sensor experts has released a highly granular energy management solution that allows building owners to achieve clear device and plant level ROIs, device level energy operating efficiencies and end-to-end awareness of usage, comfort and faults. Now businesses can understand exactly what devices are consuming electricity and get accurate real-time break-downs in a cost-effective BEM system.

The sensor is self-powered from the magnetic field produced when current flows through the monitored cable; it doesn't require any maintenance or batteries to be replaced. The sensor clips around a cable and integrates LoRaWAN technology, a long-range wireless communication for low-powered sensors that operate at a low bandwidth. This communications technology has much greater range than standard wireless network technologies such as ZigBee, Z-Wave, Bluetooth and WiFi which is typically limited to a floor or a plant room in a building.

As a LoRa Alliance member, the SmartSensor Labs device uses this communications technology. LoRaWAN is a structured network covering a geographic area where an operator, such as a Telco, is managing the network and its internet connectivity. LoRaWAN-compliant sensors and devices simply connect to the internet, cloud services and applications, they do not need gateway devices to provide the internet connectivity link. This provides sensors with the convenience of the always-on network previously associated with a cellular network but the device power requirements are significantly lower, similar to Bluetooth Low Energy or ZigBee technology.

The rapidly expanding deployment coverage for LoRaWAN is realising new opportunities for IoT sensors, M2M, civic, commercial and industrial applications within Smart Cities. For areas that are yet to have LoRaWAN deployment coverage, a LoRa private network can be installed where a single LoRa gateway covers for example, a number of buildings on a science park, business park or university campus.



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About SmartSensor Labs

London-based SmartSensor Labs provides innovative wireless sensing solutions, from custom devices to IoT platforms & applications. Building Automation, Smart Energy and Metering and Industrial IoT are the market focus for our deployments, please visit www.smartsensorlabs.com

About LoRa Alliance™

The LoRa Alliance™ is an open, non-profit association that has grown to more than 350 members since its inception in March 2015, becoming one of the largest and fastest growing alliances in the technology sector. Its members are closely collaborating and sharing their experience to promote the LoRaWAN™ protocol as the leading open global standard for secure, carrier-grade IoT LPWA connectivity. With the technical flexibility to address multiple IoT applications, both static and mobile, and a certification program to guarantee interoperability, the LoRaWAN™ is already being deployed by major mobile network operators and is anticipated to widely expand in 2016.

About LoRaWAN™

The technology utilized in a LoRaWAN network is designed to connect low-cost, battery-operated sensors over long distances in harsh environments that were previously too challenging or cost prohibitive to connect. With its unique penetration capability, a LoRaWAN gateway deployed on a building or tower can connect to sensors more than 10 miles away or to water meters deployed underground or in basements. The LoRaWAN protocol offers unique and unequalled benefits in terms of bi-directionality, security, mobility and accurate localization that are not addressed by other LPWAN technologies. These benefits will enable the diverse use cases and business models that will enable deployments of large scale LPWAN IoT networks globally.