

ELSYS is launching ERS Eco, a battery-free sensor line powered by Epishine's indoor solar cells



Industry leading LoRaWAN sensor provider ELSYS is launching their first battery-free products using Epishine's indoor light energy harvesting solution. The environmentally friendly sensor line is launching two sensor types called ERS Eco and ERS Eco CO2. They are entirely powered by Epishine's indoor solar cells and are made from biodegradable materials.

"We are incredibly excited to release a new product line powered by indoor light and made of more durable materials. Combining a great solar cell with new technology and sustainable materials is completely in line with how we at ELSYS want our product development to be. We are proud to present a new product that will simplify installation and maintenance while reducing the CO2 footprint," says Peter Björk, CEO at ELSYS.

The ERS ECO series enables customers to have complete control over their air quality and indoor environment. This in itself saves money and reduces its CO2 footprint, and its battery-free operation reduces the CO2 footprint even further.

ELSYS' vision of making an environmentally friendly sensor, demanded battery-free operation, and a more sustainable enclosure design. The solution was a cooperation between ELSYS and Epishine which resulted in a sensor that is powered solely by indoor solar cells as well as an enclosure made from biodegradable materials.

"ELSYS has taken sustainability to a new level within IoT and building automation sensors with the new ERS Eco sensor line. We are proud to be their partner, supplying our light energy harvesting modules. Epishine's organic solar cells are perfectly optimized for the ERS Eco sensors with their market-leading performance in indoor light conditions," says Jonas Palmér, Sales and Business Development at Epishine.

Sensors powered with Epishine's indoor light energy harvesting modules do not only function uninterrupted when ambient light is available, but also function continuously for up to seven days in the dark. This results in a solution with very low or no maintenance and with no need to ever change batteries again.

"This combination of energy harvesting from indoor light, battery-free operation, and a biodegradable enclosure is an IoT industry first. I believe that we at ELSYS, with ongoing support from Epishine, have developed a truly unique and ground-breaking product," says David Skånehult, Hardware Engineer at ELSYS.

ABOUT ELSYS

ELSYS is a leading provider of LoRaWAN sensors, network solutions, and connected devices for smart facilities and challenging outdoor environments. They develop, manufacture and deliver wireless sensors for the professional market worldwide. Among their customers are several of the world's largest companies in the field.

ELSYS was founded in 2005 in Umeå, Sweden, as a spin-off company from Umeå University. They built their business on profound knowledge in radio technology, LoRaWAN (Long Range Wide Area Network), which is the core of IoT (Internet of Things). The team has extensive experience in research and development in wireless communication and connected devices.



ABOUT EPISHINE

Epishine is a leading developer and manufacturer of printed organic solar cells, committed to reducing global environmental impact by enabling innovative and smart technologies in meeting the demand for sustainable energy solutions.

Epishine's business is based on pioneering manufacturing breakthroughs. Their first product is a unique organic solar cell optimized for harvesting ambient indoor light that is easily integrated into small low-power electronics. If you are interested in investing in Epishine, their next equity round is planned in early 2023.



For more information about the sensor series, contact info@elsys.se.