Aalborg
3. november 2020

Easy Data Collection for Researchers

Researchers from Aalborg University will use Seluxit equipment to simplify data collection

In two separate initiatives, researchers from Aalborg University's Department of the Built Environment will systemize the collection of air-quality and water-usage data with equipment delivered by Seluxit. This data collection is an important aspect in the work the department performs to find new ways to save energy and thereby improve the environment.

Seluxit's solution makes it possible to collect data from a wide variety of supported sensors, where data is automatically collected and presented in a dashboard for further analysis — without any programming. That means that Aalborg University (AAU) can save time on collecting data and instead focus on data analysis.

The Seluxit solution will replace a homemade solution based on Arduino, which has proven unstable and difficult to maintain.

Air Quality

Ventilation systems make sure that air quality is uniform in a room, including temperature and CO_2, for optimal comfort and wellbeing. AAU will measure different locations in a room to understand and document how uniform the air quality actually is. The investigation of air quality will document the ventilation efficiency of so-called diffuse air-injection ventilation, which is a newer approach to traditional ventilation with various advantages.

Water Usage

Much of the pre-warmed water delivered by utilities is used in buildings as running water (as distinct from use in radiators and under-floor heating). Researchers believe that this can be optimized. The investigation of water-usage is primarily to collect data, where expected patterns can be explored and documented. The investigation will result in a baseline for future research projects where researchers will investigate various ways to heat water. This could be, for example, through local heating of water using electricity, which can be efficient in certain cases, taking the entire energy calculation in consideration.

SLX IoT Solution Builder

In both investigations, Aalborg University will configure hardware from Seluxit's product range, where data will automatically be collected in Seluxit's dashboard. The plug-and-play process is called SLX IoT Solution Builder. In this case, the university will use Seluxit's SLX Porcupine single-board computer as well

as CO2 sensors delivered by Seluxit and flowmeters from another source. Seluxit offers special prices for educational and research institutions. You can buy Seluxit products at www.seluxit.com/shop.

Seluxit CEO Daniel Lux explains: "It's always a good thing when you sell your products, and when our products are being used in research and development, it is extra motivational. It shows that not only are we at the forefront of technology, but also that we have relevant and useful technology, which can be a part of education and research. Regarding this project, it is great to see that our products are being used to find innovative solutions which can help improve the environment."

About AAU Department of the Built Environment
Research from the Department of the Built Environment delivers knowledge and solutions from a holistic perspective for improving building and the built environment, combining knowledge from users, buildings, cities, environment, construction and infrastructure. The research is both national and international in close collaboration with companies, organizations, public institutions related to the built environment.

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About Seluxit
Since 2006, Seluxit has connected things to the internet to optimize systems and save resources. That makes sense for the economy, for the environment and for society. IoT is at the core of Seluxit's palate of products. We connect our customers' things to the internet — quickly and securely. Seluxit delivers end-to-end solutions and helps our customers every step of the way.

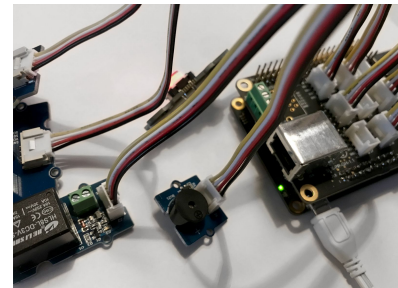*Brian Boyles, Marketing and Pre-Sales Consultant: +45 46 922 722, brian@seluxit.com*

Media Kit

Images, SLX Porcupine and Related Products
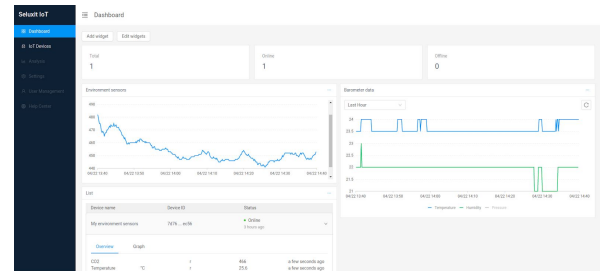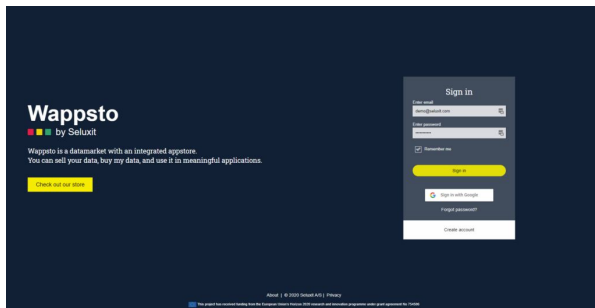

SLX Porcupine
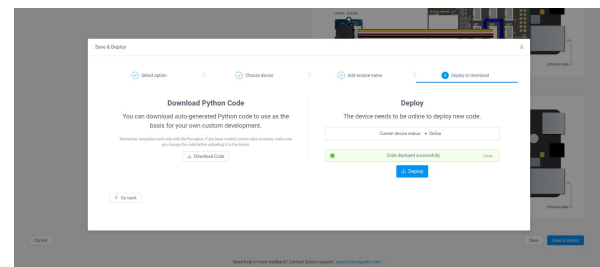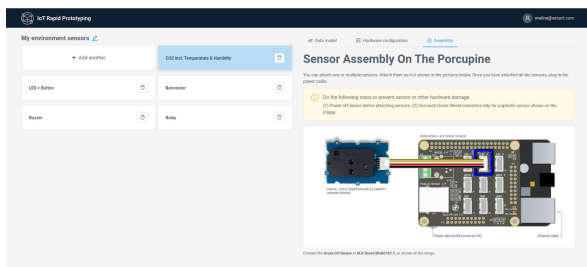

SLX Porcupine (Transparent png)

IoT Rapid Prototyping

Images, IoT Rapid Prototyping

Wappsto by Seluxit
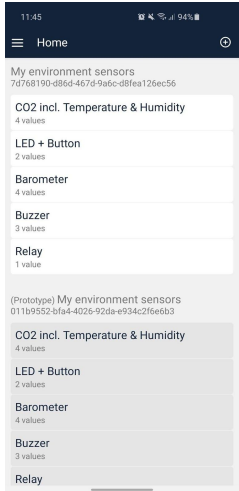
Dashboard

Adding Sensors
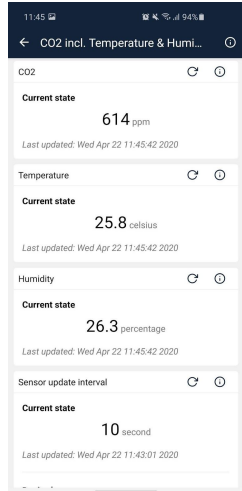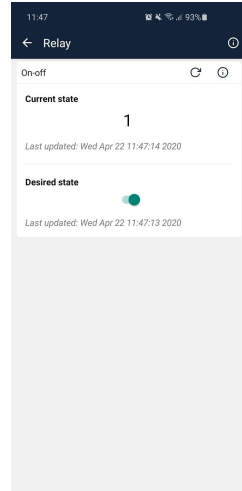

Deploying Sensors

Images, Seluxit Device List (Native App)

Device List

Device List, CO2 Sensor View

Device List, Relay View

Images, Seluxit

Seluxit Logo (transparent png)

Seluxit Logo (SVG)

Seluxit Founders, Morten Pagh Frederiksen, CTO and Daniel Lux, CEO

Seluxit Office